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Apéndice C: Código fuente de SIGPYME.

C.1. Formulario facercade.

Archivo “acercade.cpp”

```
//-----  
  
#include <vcl.h>  
#pragma hdrstop  
  
#include "acercade.h"  
//-----  
#pragma package(smart_init)  
#pragma resource "*.dfm"  
Tfacercade *facercade;  
//-----  
__fastcall Tfacercade::Tfacercade(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----  
  
void __fastcall Tfacercade::Button1Click(TObject *Sender)  
{  
    Hide();  
}  
//-----
```

Archivo “acercade.h”

```
//-----  
  
#ifndef acercadeH  
#define acercadeH  
//-----  
#include <Classes.hpp>  
#include <Controls.hpp>  
#include <StdCtrls.hpp>  
#include <Forms.hpp>  
//-----  
class Tfacercade : public TForm  
{  
    __published: // IDE-managed Components  
        TLabel *Label1;  
        TLabel *Label2;  
        TLabel *Label3;  
        TLabel *Label4;  
        TLabel *Label5;  
}
```

```
TLabel *Label6;  
TButton *Button1;  
void __fastcall Button1Click(TObject *Sender);  
private: // User declarations  
public: // User declarations  
__fastcall Tfacercade(TComponent* Owner);  
};  
//-----  
extern PACKAGE Tfacercade *facercade;  
//-----  
#endif
```

Archivo “acercade.dfm”

```
object facercade: Tfacercade  
  Left = 356  
  Top = 260  
  Width = 388  
  Height = 324  
  Caption = 'SIGPYME: Acerca de'  
  Color = 13433307  
  Font.Charset = DEFAULT_CHARSET  
  Font.Color = clWindowText  
  Font.Height = -11  
  Font.Name = 'MS Sans Serif'  
  
  Font.Style = []  
  OldCreateOrder = False  
  PixelsPerInch = 96  
  TextHeight = 13  
  object Label1: TLabel  
    Left = 120  
    Top = 56  
    Width = 141  
    Height = 13  
    Caption = 'Aplicación realizada por:'  
    Font.Charset = DEFAULT_CHARSET  
    Font.Color = clWindowText  
    Font.Height = -11  
    Font.Name = 'MS Sans Serif'  
    Font.Style = [fsBold]  
    ParentFont = False  
  end  
  object Label2: TLabel  
    Left = 56  
    Top = 88  
    Width = 268  
    Height = 29  
    Alignment = taCenter  
    Caption = 'Fernando Usero Fuentes'  
    Color = 13433307  
    Font.Charset = DEFAULT_CHARSET  
    Font.Color = clNavy  
    Font.Height = -24  
    Font.Name = 'MS Sans Serif'
```

```
Font.Style = []
ParentColor = False
ParentFont = False
end
object Label3: TLabel
Left = 128
Top = 8
Width = 145
Height = 35
AutoSize = False
Caption = 'SIGPYME'
Font.Charset = ANSI_CHARSET
Font.Color = clRed
Font.Height = -29
Font.Name = 'Lucida Sans Unicode'
Font.Style = [fsBold, fsItalic]
ParentFont = False
end
object Label4: TLabel
Left = 168
Top = 136
Width = 55
Height = 20
Caption = 'v 0.1.1'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -16
Font.Name = 'MS Sans Serif'
Font.Style = [fsItalic]
ParentFont = False
end
object Label5: TLabel
Left = 48
Top = 184
Width = 285
Height = 13
Caption = 'Esta aplicación es software libre y está bajo la licencia GPL'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -11
Font.Name = 'MS Sans Serif'
Font.Style = []
ParentFont = False
end
object Label6: TLabel
Left = 88
Top = 200
Width = 196
Height = 13
Caption = 'para más información visitar www.gnu.org'
end
object Button1: TButton
Left = 152
Top = 232
Width = 75
Height = 25
Caption = '&Aceptar'
```

```
    TabOrder = 0
    OnClick = Button1Click
end
end
```

C.2. Formulario *fborrar_cita*.

Archivo “borrar_cita.cpp”

```
//-----

#include <vcl.h>
#pragma hdrstop

#include "borrar_cita.h"
#include "datosBBDD.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfborrar_cita *fborrar_cita;
//-----
__fastcall Tfborrar_cita::Tfborrar_cita(TComponent* Owner)
    : TForm(Owner)
{
}
//-----
void __fastcall Tfborrar_cita::BotonBuscarClick(TObject *Sender)
{
    AnsiString Fecha = DateToStr(DateTimePicker1->Date );
    TDate Fecha2 = StrToDate( Fecha );
    //ShowMessage( Fecha2.FormatString("mm/dd/yyyy") );
    AnsiString ConsultaSql = "select * from agenda where ";
    if (CheckBox1->Checked == true )
    {
        ConsultaSql+="Fecha=\'" + Fecha2.FormatString("mm/dd/yyyy") + "\'";
        if (CheckBox2->Checked == true )
            ConsultaSql+=" and Hora= \'"+DateTimePicker2->Time. \
                FormatString("hh:nn:ss") + "\'";
    }
    else
    {
        if (CheckBox2->Checked == true )
            ConsultaSql += " Hora= \'"+DateTimePicker2->Time. \
                FormatString("hh:nn:ss") + "\'";
    }

    //ShowMessage(ConsultaSql);

    DataModuleBBDD->QueryCitas->Active = false;
    DataModuleBBDD->QueryCitas->Close();
    DataModuleBBDD->QueryCitas->SQL->Clear();
    DataModuleBBDD->QueryCitas->SQL->Add(ConsultaSql);
    DataModuleBBDD->QueryCitas->ExecSQL();
    DataModuleBBDD->QueryCitas->Active = true;

    if(DataModuleBBDD->QueryCitas->RecordCount!=0)
```

```
{
    DBGridCitas->Visible = true;
    PanelCitas->Visible = true;
}
else
{
    DBGridCitas->Visible = false;
    PanelCitas->Visible = false;
    ShowMessage("No se encontró ninguna cita que cumpla los \
                requisitos de búsqueda");
}
}
//-----
void __fastcall Tfborrar_cita::CheckBox1Click(TObject *Sender)
{
    if (CheckBox1->Checked == true )
    {
        LabelBuscarFecha->Enabled = true;
        DateTimePicker1->Enabled = true;
    }
    else
    {
        LabelBuscarFecha->Enabled = false;
        DateTimePicker1->Enabled = false;
    }
}
//-----

void __fastcall Tfborrar_cita::CheckBox2Click(TObject *Sender)
{
    if (CheckBox2->Checked == true )
    {
        LabelBuscarHora->Enabled = true;
        DateTimePicker2->Enabled = true;
    }
    else
    {
        LabelBuscarHora->Enabled = false;
        DateTimePicker2->Enabled = false;
    }
}
//-----
void __fastcall Tfborrar_cita::FormActivate(TObject *Sender)
{
    DBGridCitas->Visible=false;
    PanelCitas->Visible=false;
}
//-----
void __fastcall Tfborrar_cita::BotonSalirClick(TObject *Sender)
{
    Hide();
}
//-----

void __fastcall Tfborrar_cita::DBGridCitasCellClick(TColumn *Column)
{
    ShowMessage(DataModuleBBDD->QueryCitas->RecNo);
}
//-----
```

Archivo “borrar_cita.h”

```
//-----
#ifndef buscar_citaH
#define buscar_citaH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ComCtrls.hpp>
#include <DBGrids.hpp>
#include <ExtCtrls.hpp>
#include <Grids.hpp>
//-----
class Tfbuscar_cita : public TForm
{
__published: // IDE-managed Components
    TPanel *PanelCitas;
    TDBGrid *DBGridCitas;
    TButton *BotonBuscar;
    TPanel *Panel2;
    TLabel *LabelBuscarFecha;
    TDateTimePicker *DateTimePicker1;
    TCheckBox *CheckBox1;
    TPanel *Panel3;
    TDateTimePicker *DateTimePicker2;
    TLabel *LabelBuscarHora;
    TCheckBox *CheckBox2;
    TButton *BotonSalir;
    TLabel *LabelIndicacion;
    TLabel *LabelIndicacion2;
    void __fastcall BotonBuscarClick(TObject *Sender);
    void __fastcall CheckBox1Click(TObject *Sender);
    void __fastcall CheckBox2Click(TObject *Sender);
    void __fastcall FormActivate(TObject *Sender);
    void __fastcall BotonSalirClick(TObject *Sender);
    void __fastcall DBGridCitasCellClick(TColumn *Column);
private: // User declarations
public: // User declarations
    bool BorrarCita; //Variable usada para saber si estamos usando
                    //para borrar citas
    __fastcall Tfbuscar_cita(TComponent* Owner);
};
//-----
extern PACKAGE Tfbuscar_cita *fbuscar_cita;
//-----
#endif
```

Archivo “borrar_cita.dfm”

```
object fbuscar_cita: Tfbuscar_cita
  Left = 311
  Top = 221
  Width = 417
  Height = 443
  AutoSize = True
  Caption = 'SIGPYME: Buscar Citas'
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
  Font.Name = 'MS Sans Serif'
  Font.Style = []
  OldCreateOrder = False
  Position = poDefault
  OnActivate = FormActivate
  PixelsPerInch = 96
  TextHeight = 13
object LabelIndicacion: TLabel
  Left = 0
  Top = 120
  Width = 409
  Height = 17
  Alignment = taCenter
  AutoSize = False
  Caption =
    'Pulse cualquier línea para obtener una ventana con la cita comp' +
    'leta'
end
object LabelIndicacion2: TLabel
  Left = 80
  Top = 0
  Width = 221
  Height = 13
  Caption = 'Seleccione la hora y la fecha de la cita a buscar'
end
object PanelCitas: TPanel
  Left = 0
  Top = 144
  Width = 409
  Height = 265
  BevelOuter = bvLowered
  TabOrder = 0
  Visible = False
  object DBGridCitas: TDBGrid
    Left = 9
    Top = 8
    Width = 392
    Height = 249
    DataSource = DataModuleBBDD.DataSourceCitas
    TabOrder = 0
    TitleFont.Charset = DEFAULT_CHARSET
    TitleFont.Color = clWindowText
    TitleFont.Height = -11
    TitleFont.Name = 'MS Sans Serif'
    TitleFont.Style = []
    Visible = False
```



```
    OnCellClick = DBGridCitasCellClick
end
end
object BotonBuscar: TButton
    Left = 296
    Top = 32
    Width = 105
    Height = 33
    Caption = 'Realizar Búsqueda'
    TabOrder = 3
    OnClick = BotonBuscarClick
end
object Panel2: TPanel
    Left = 8
    Top = 24
    Width = 281
    Height = 41
    TabOrder = 1
    object LabelBuscarFecha: TLabel
        Left = 45

        Top = 17
        Width = 91
        Height = 13
        Caption = 'Introduzca la fecha'
    end
    object DateTimePicker1: TDateTimePicker
        Left = 152
        Top = 12
        Width = 105
        Height = 21
        CalAlignment = dtaLeft
        Date = 37466.8811228819
        Time = 37466.8811228819
        DateFormat = dfShort
        DateMode = dmComboBox
        Kind = dtkDate
        ParseInput = False
        TabOrder = 1
    end
    object CheckBox1: TCheckBox
        Left = 16
        Top = 16
        Width = 17
        Height = 17
        Checked = True
        State = cbChecked
        TabOrder = 0
        OnClick = CheckBox1Click
    end
end
object Panel3: TPanel
    Left = 8
    Top = 72
    Width = 281
    Height = 41
    TabOrder = 2
```

```
object LabelBuscarHora: TLabel
  Left = 44
  Top = 20
  Width = 85
  Height = 13
  Caption = 'Introduzca la hora'
end
object DateTimePicker2: TDateTimePicker
  Left = 168
  Top = 12
  Width = 89
  Height = 21
  CalAlignment = dtaLeft
  Date = 37466.9845624768
  Time = 37466.9845624768
  DateFormat = dfShort
  DateMode = dmComboBox
  Kind = dtkTime
  ParseInput = False
  TabOrder = 1
end
object CheckBox2: TCheckBox
  Left = 16
  Top = 16
  Width = 25
  Height = 17
  Checked = True
  State = cbChecked
  TabOrder = 0
  OnClick = CheckBox2Click
end
end
object BotonSalir: TButton
  Left = 312
  Top = 72
  Width = 75
  Height = 33
  Caption = 'Salir'
  TabOrder = 4
  OnClick = BotonSalirClick
end
end
```

C.3. Formulario fcitas_hoy

Archivo citas_hoy.cpp

```
//-----
#include <vcl.h>
//#include <systdate.h>
```

```
#pragma hdrstop

#include "citas_hoy.h"
#include "datosBBDD.h"
#include "modificar_cita.h"
#include "principal.h"
#include "informe_citas_hoy.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfcitas_hoy *fcitas_hoy;
//-----
__fastcall Tfcitas_hoy::Tfcitas_hoy(TComponent* Owner)
    : TForm(Owner)
{
}
//-----

void __fastcall Tfcitas_hoy::FormActivate(TObject *Sender)
{
    LabelDia->Caption = "Dia: " + Date();

    AnsiString Hoy = Date().FormatString("mm/dd/yyyy");
    AnsiString ConsultaSql = "select * from agenda where Fecha=\"\" + Hoy + "\"";
    //    ShowMessage (ConsultaSql);

    DataModuleBBDD->QueryCitas->Active = false;
    DataModuleBBDD->QueryCitas->Close();
    DataModuleBBDD->QueryCitas->SQL->Clear();
    DataModuleBBDD->QueryCitas->SQL->Add(ConsultaSql);
    DataModuleBBDD->QueryCitas->ExecSQL();
    DataModuleBBDD->QueryCitas->Active = true;

    //Creación de la base de datos vacia y temporal para los criterios de consulta
    TFieldDef *NuevoCampo;
    DatabaseResultados->Connected=false;
    TablaResultados->Active=false;
    TablaResultados->DatabaseName=DatabaseResultados->DatabaseName;
    TablaResultados->TableName= fprincipal->PathBBDD + "result.db";
    TablaResultados->TableType=ttParadox;

    if(!FileExists(fprincipal->PathBBDD + "result.db"))
    {
        TablaResultados->FieldDefs->Clear();

        //Creamos todos los campos
        NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
        NuevoCampo->Name = "IDCaso";
        NuevoCampo->DataType = ftInteger;

        NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
        NuevoCampo->Name = "Fecha";
        NuevoCampo->DataType = ftDate;

        NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
        NuevoCampo->Name = "Hora";
        NuevoCampo->DataType = ftTime;
```

```
NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
NuevoCampo->Name = "Periodicidad";
NuevoCampo->DataType = ftBoolean;

NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
NuevoCampo->Name = "IDIntervalo";
NuevoCampo->DataType = ftSmallint;

NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
NuevoCampo->Name = "Cantidad";
NuevoCampo->DataType = ftSmallint;

NuevoCampo = TablaResultados->FieldDefs->AddFieldDef();
NuevoCampo->Name = "Cita";
NuevoCampo->DataType = ftMemo;
NuevoCampo->Size = 240;

//Creamos los índices
TablaResultados->IndexDefs->Clear();
TablaResultados->IndexDefs->Add("",IDCaso,TIndexOptions() <<ixPrimary << \
                                                    ixUnique);

//Creamos la tabla
TablaResultados->CreateTable();
}
else //Borramos el contenido de la tabla si ya existía
    TablaResultados->EmptyTable();

TablaResultados->Active=true;
DatabaseResultados->Connected=true;

if ( DataModuleBBDD->QueryCitas->RecordCount )
    TablaResultados->BatchMove( DataModuleBBDD->QueryCitas, batCopy);

//Comprobación de los días de la tabla periódica.
DataModuleBBDD->TablaAgenda->First();

while ( !DataModuleBBDD->TablaAgenda->Eof )
{
    if(DataModuleBBDD->TablaAgenda->FieldByName("Periodicidad")->AsBoolean==
                                                TRUE )
    {
        TDate Fecha = DataModuleBBDD->TablaAgenda->FieldByName("Fecha") \
                                                                ->Value;
        int IDIntervalo = DataModuleBBDD->TablaAgenda->FieldByName("IDIntervalo") \
                                                                ->AsInteger;
        int cantidad = DataModuleBBDD->TablaAgenda->FieldByName("cantidad") \
                                                                ->AsInteger;

        Fecha = IncrementarFecha(Fecha,IDIntervalo,cantidad);
        while ( Fecha < Date() )
            Fecha = IncrementarFecha(Fecha,IDIntervalo,cantidad);

        if (Fecha == Date() )
            CopiarRegistro( DataModuleBBDD->TablaAgenda, TablaResultados);
    }
}
```

```
DataModuleBBDD->TablaAgenda->Next();
}

}

//-----

void __fastcall Tfcitas_hoy::DBGridCitasCellClick(TColumn *Column)
{
    TLocateOptions Opts;
    Opts.Clear();
    Opts << loPartialKey;

    AnsiString buscar = TablaResultados->FieldByName("IDCaso")->Value;
    if ( !DataModuleBBDD->TablaAgenda->Locate("IDCaso",buscar,Opts) )
        ShowMessage("El intervalo no se corresponde con ninguno conocido.
                    Inconsistencia en BBDDs");

    fmodificar_cita->Show();
}

//-----

void __fastcall Tfcitas_hoy::CopiarRegistro(TTable *TablaOrigen, TTable *TablaDestino )
{
    TablaDestino->Last();
    TablaDestino->Append();
    TablaDestino->FieldByName("IDCaso")->AsInteger=TablaOrigen    \
                                >FieldByName("IDCaso")->AsInteger;
    TablaDestino->FieldByName("Fecha")->Value = TablaOrigen->FieldByName("Fecha")\
                                                ->Value;
    TablaDestino->FieldByName("Hora")->Value = TablaOrigen->FieldByName("Hora") \
                                                ->Value;
    TablaDestino->FieldByName("Periodicidad")->Value = TablaOrigen    \
                                                ->FieldByName("Periodicidad")->Value;
    TablaDestino->FieldByName("IDIntervalo")->Value = TablaOrigen    \
                                                ->FieldByName("IDIntervalo")->AsInteger;
    TablaDestino->FieldByName("Cantidad")->Value =TablaOrigen    \
                                                ->FieldByName("Cantidad")->Value;
    TablaDestino->FieldByName("Cita")->Value = TablaOrigen->FieldByName("Cita") \
                                                ->Value;

    //Se hace el post para actualizar la tabla agenda
    TablaDestino->Post();
    TablaDestino->Refresh();
}

//-----

TDate __fastcall Tfcitas_hoy::IncrementarFecha(TDate fecha,int IDIntervalo,int
                                                cantidad)
{
    if (IDIntervalo == 1)
    {
        fecha = fecha + (7*cantidad);
    }
    else

```

```
{
    int meses;

    switch (IDIntervalo)
    {
        case 2:
            meses = 1;
            break;
        case 3:
            meses = 3;
            break;
        case 4:
            meses = 6;
            break;
        case 5:
            meses = 12;
            break;
    }

    fecha = IncMonth(fecha,meses * cantidad);
}
return fecha;
}

//-----

void __fastcall Tfcitas_hoy::Button1Click(TObject *Sender)
{
    Hide();
}
//-----

void __fastcall Tfcitas_hoy::Button2Click(TObject *Sender)
{
    finforme_citas_hoy->QuickRep1->Preview();
}
//-----
```

Archivo “citas_hoy.h”

```
//-----

#ifndef citas_hoyH
#define citas_hoyH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <DBGrids.hpp>
#include <Grids.hpp>
#include <sysutils.hpp>
#include <Db.hpp>
#include <DBTables.hpp>
```

```
//-----  
class Tfcitas_hoy : public TForm  
{  
__published: // IDE-managed Components  
    TLabel *LabelDia;  
    TDBGrid *DBGridCitas;  
    TDatabase *DatabaseResultados;  
    TTable *TablaResultados;  
    TDataSource *DataSourceResultados;  
    TIntegerField *TablaResultadosIDCaso;  
    TDateField *TablaResultadosFecha;  
    TTimeField *TablaResultadosHora;  
    TBooleanField *TablaResultadosPeriodicidad;  
    TIntegerField *TablaResultadosIDIntervalo;  
    TSmallintField *TablaResultadosCantidad;  
    TMemoField *TablaResultadosCita;  
    TStringField *TablaResultadosIntervalo;  
    TButton *Button1;  
    TButton *Button2;  
    void __fastcall FormActivate(TObject *Sender);  
    void __fastcall DBGridCitasCellClick(TColumn *Column);  
    void __fastcall Button1Click(TObject *Sender);  
    void __fastcall Button2Click(TObject *Sender);  
private: // User declarations  
public: // User declarations  
    __fastcall Tfcitas_hoy(TComponent* Owner);  
    void __fastcall CopiarRegistro(TTable *TablaOrigen, TTable *TablaDestino );  
    TDate __fastcall IncrementarFecha(TDate fecha,int IDIntervalo,int cantidad);  
};  
//-----  
extern PACKAGE Tfcitas_hoy *fcitas_hoy;  
//-----  
#endif
```

Archivo “citas_hoy.dfm”

```
object fcitas_hoy: Tfcitas_hoy  
    Left = 233  
    Top = 202  
    Width = 573  
    Height = 265  
    Caption = 'SIGPYME: Citas para hoy'  
    Color = clBtnFace  
    Font.Charset = DEFAULT_CHARSET  
    Font.Color = clWindowText  
    Font.Height = -11  
    Font.Name = 'MS Sans Serif'  
    Font.Style = []  
    OldCreateOrder = False  
    OnActivate = FormActivate  
    PixelsPerInch = 96  
    TextHeight = 13  
    object LabelDia: TLabel  
        Left = 88  
        Top = 16
```

```
Width = 43
Height = 24
Caption = 'Día: '
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -19
Font.Name = 'MS Sans Serif'
Font.Style = [fsBold]
ParentFont = False
end
object DBGridCitas: TDBGrid
Left = 16
Top = 64
Width = 529
Height = 153
DataSource = DataSourceResultados
TabOrder = 2
TitleFont.Charset = DEFAULT_CHARSET
TitleFont.Color = clWindowText
TitleFont.Height = -11
TitleFont.Name = 'MS Sans Serif'
TitleFont.Style = []
OnClick = DBGridCitasCellClick
Columns = <
  item
    Expanded = False
    FieldName = 'IDCaso'
    Visible = True
  end
  item
    Expanded = False
    FieldName = 'Fecha'
    Visible = True
  end
  item
    Expanded = False
    FieldName = 'Hora'
    Visible = True
  end
  item
    Expanded = False
    FieldName = 'Periodicidad'
    Visible = True
  end
  item
    Expanded = False
    FieldName = 'Intervalo'

    Visible = True
  end
  item
    Expanded = False
    FieldName = 'Cantidad'
    Visible = True
  end
  item
    Expanded = False
```



```
        FieldName = 'Cita'
        Visible = True
    end>
end
object Button1: TButton
    Left = 464
    Top = 16
    Width = 75
    Height = 25
    Caption = '&Salir'
    TabOrder = 1
    OnClick = Button1Click
end
object Button2: TButton
    Left = 384
    Top = 16
    Width = 75
    Height = 25
    Caption = '&Imprimir'
    TabOrder = 0
    OnClick = Button2Click
end
object DatabaseResultados: TDatabase
    Connected = True
    DatabaseName = 'result'
    DriverName = 'STANDARD'
    SessionName = 'Default'
    Top = 16
end
object TablaResultados: TTable
    DatabaseName = 'result'
    Left = 24
    Top = 16
    object TablaResultadosIDCaso: TIntegerField
        FieldName = 'IDCaso'
    end
    object TablaResultadosFecha: TDateField
        FieldName = 'Fecha'
    end
    object TablaResultadosHora: TTimeField
        FieldName = 'Hora'
    end
    object TablaResultadosPeriodicidad: TBooleanField
        FieldName = 'Periodicidad'
    end
    object TablaResultadosIDIntervalo: TIntegerField
        FieldName = 'IDIntervalo'
    end
    object TablaResultadosCantidad: TSmallintField
        FieldName = 'Cantidad'
    end
    object TablaResultadosCita: TMemoField
        FieldName = 'Cita'
        BlobType = ftMemo
        Size = 240
    end
    object TablaResultadosIntervalo: TStringField
```

```
FieldKind = fkLookup
FieldName = 'Intervalo'
LookupDataSet = DataModuleBBDD.TablaIntervalo
LookupKeyFields = 'IDIntervalo'
LookupResultField = 'Intervalo'
KeyFields = 'IDIntervalo'
Lookup = True
end
end
object DataSourceResultados: TDataSource
  DataSet = TablaResultados
  Left = 48
  Top = 16
end
end
```

C.4. Formulario fconfiguracion.

Archivo “configuración.cpp”

```
//-----
#include <vcl.h>
#include <dir.h>
#pragma hdrstop

#include "configuracion.h"
#include "principal.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfconfiguracion *fconfiguracion;
//-----
__fastcall Tfconfiguracion::Tfconfiguracion(TComponent* Owner)
: TForm(Owner)
{
}
//-----
void __fastcall Tfconfiguracion::BotonAplicarClick(TObject *Sender)
{
    //Procesamiento de la opción 1:

    fprincipal->GOpcion1 = CheckBoxOpcion1->Checked;

    //Procesamiento de la opción 2:

    if ( EditOpcion2->Text != NULL )
    {
        fprincipal->GOpcion2 = EditOpcion2->Text;
    }
}
```

```
//Procesamiento de la opcion3
fprincipal->GOpcion3 = RadioButtonGeometrica->Checked;

//Procesamiento de la opcion4
fprincipal->GOpcion4 = RadioButtonAritmetica->Checked;

fprincipal->IniciarDatos(this);

Hide();
}
//-----

void __fastcall Tfconfiguracion::BotonCancelarClick(TObject *Sender)
{
    Hide();
}
//-----

void __fastcall Tfconfiguracion::FormActivate(TObject *Sender)
{
    CheckBoxOpcion1->Checked = fprincipal->GOpcion1;

    EditOpcion2->Text = fprincipal->GOpcion2;

    RadioButtonGeometrica->Checked = fprincipal->GOpcion3;

    RadioButtonAritmetica->Checked = fprincipal->GOpcion4;
}
//-----

void __fastcall Tfconfiguracion::DirectoryListBoxOpcion6Change( TObject *Sender)
{
    EditOpcion2->Text = DirectoryListBoxOpcion6->Directory + "\\";
}
//-----

void __fastcall Tfconfiguracion::FormDbClick(TObject *Sender)
{
    char path[255]; //255 es el tamaño máximo del path
    strcpy(path, "X:\\");
    path[0] = 'A' + getdisk();
    getcurdir(0, path+3);
    ShowMessage(path);
}
//-----

void __fastcall Tfconfiguracion::BotonImpresoraClick(TObject *Sender)
{
    PrintDialog1->Execute();
}
//-----
```

Archivo “configuración.h”

```
//-----  
  
#ifndef configuracionH  
#define configuracionH  
//-----  
#include <Classes.hpp>  
#include <Controls.hpp>  
  
#include <StdCtrls.hpp>  
#include <Forms.hpp>  
#include <Dialogs.hpp>  
#include <FileCtrl.hpp>  
#include <ExtCtrls.hpp>  
//-----  
class Tfconfiguracion : public TForm  
{  
__published: // IDE-managed Components  
    TLabel *Label1;  
    TCheckBox *CheckBoxOpcion1;  
    TButton *BotonAplicar;  
    TButton *BotonCancelar;  
    TGroupBox *GroupBox1;  
    TRadioButton *RadioButtonGeometrica;  
    TRadioButton *RadioButtonAritmetica;  
    TPanel *Panel1;  
    TLabel *LabelOpcion2;  
    TEdit *EditOpcion2;  
    TDirectoryListBox *DirectoryListBoxOpcion6;  
    TDriveComboBox *DriveComboBoxOpcion5;  
    TButton *BotonImpresora;  
    TPrintDialog *PrintDialog1;  
    void __fastcall BotonAplicarClick(TObject *Sender);  
    void __fastcall BotonCancelarClick(TObject *Sender);  
    void __fastcall FormActivate(TObject *Sender);  
    void __fastcall DirectoryListBoxOpcion6Change(TObject *Sender);  
    void __fastcall FormDbClick(TObject *Sender);  
    void __fastcall BotonImpresoraClick(TObject *Sender);  
private: // User declarations  
public: // User declarations  
    bool Opcion1;  
    AnsiString Opcion2;  
    bool Opcion3;  
    bool Opcion4;  
    __fastcall Tfconfiguracion(TComponent* Owner);  
};  
//-----  
extern PACKAGE Tfconfiguracion *fconfiguracion;  
//-----  
#endif
```

Archivo “configuración.dfm”

```
object fconfiguracion: Tfconfiguracion
  Left = 284
  Top = 148
  Width = 704
  Height = 363
  Caption = 'SIGPYME: Configuracion'
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
  Font.Name = 'MS Sans Serif'
  Font.Style = []
  OldCreateOrder = False
  OnActivate = FormActivate
  OnDblClick = FormDblClick
  PixelsPerInch = 96
  TextHeight = 13
  object Label1: TLabel
    Left = 120
    Top = 16
    Width = 394
    Height = 24
    Caption = 'Opciones de Configuración de SIGPYME'
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clBlue
    Font.Height = -19
    Font.Name = 'MS Sans Serif'
    Font.Style = [fsBold, fsItalic]
    ParentFont = False
  end
  object CheckBoxOpcion1: TCheckBox
    Left = 40
    Top = 72
    Width = 257
    Height = 17
    Caption = 'Activar cuadro de diálogo al salir de la aplicación'
    TabOrder = 0
  end
  object BotonAplicar: TButton
    Left = 576
    Top = 256
    Width = 73
    Height = 33
    Caption = '&Aplicar'
    TabOrder = 5
   OnClick = BotonAplicarClick
  end
  object BotonCancelar: TButton
    Left = 488
    Top = 256
    Width = 75
    Height = 33
    Caption = '&Cancelar'
    TabOrder = 4
```

```
OnClick = BotonCancelarClick
end
object GroupBox1: TGroupBox
  Left = 464
  Top = 64
  Width = 137
  Height = 89
  Caption = 'Elección de colores'
  TabOrder = 1
  object RadioButtonGeometrica: TRadioButton
    Left = 16
    Top = 24
    Width = 113
    Height = 17
    Caption = 'Geométrica'
    TabOrder = 0
    TabStop = True
  end
  object RadioButtonAritmetica: TRadioButton
    Left = 16
    Top = 64
    Width = 113
    Height = 17
    Caption = 'Aritmética'
    Checked = True
    TabOrder = 1
    TabStop = True
  end
end
object Panel1: TPanel
  Left = 40
  Top = 120
  Width = 369
  Height = 177
  TabOrder = 2
  object LabelOpcion2: TLabel
    Left = 16
    Top = 8
    Width = 290
    Height = 13
    Caption = 'Directorio donde se encuentran instaladas las bases de datos'
  end
  object EditOpcion2: TEdit
    Left = 16
    Top = 32
    Width = 321
    Height = 21
    TabOrder = 0
    Text = 'C:\Fernando\builder5\sigpyme\BBDD\'
  end
  object DirectoryListBoxOpcion6: TDirectoryListBox
    Left = 192
    Top = 64
    Width = 145
    Height = 97
    ItemHeight = 16
    TabOrder = 2
```

```
    OnChange = DirectoryListBoxOpcion6Change
end
object DriveComboBoxOpcion5: TDriveComboBox
    Left = 16
    Top = 62
    Width = 145
    Height = 19
    DirList = DirectoryListBoxOpcion6
    TabOrder = 1
end
end
object BotonImpresora: TButton
    Left = 464
    Top = 168
    Width = 81
    Height = 33
    Caption = 'Impresoras'
    TabOrder = 3
    OnClick = BotonImpresoraClick
end
object PrintDialog1: TPrintDialog
    Left = 560
    Top = 160
end
end
```

C.5. Formulario *fconsulta*.

Archivo “consulta.cpp”

```
//-----

#include <vcl.h>
#pragma hdrstop

#include "consulta.h"
#include "datosBBDD.h"
#include "principal.h"
#include "informe_consulta_clientes.h"
#include "informe_consulta_citas.h"
#include "editar_campo_cita.h"

//-----

#pragma package(smart_init)
#pragma resource "*.dfm"

Tfconsulta *fconsulta;

//-----
```

```
__fastcall Tfconsulta::Tfconsulta(TComponent* Owner)
    : TForm(Owner)
{
}

//-----

void __fastcall Tfconsulta::IniciarDatos(void)
{
    Panel1->Visible=false;
    DBGridConsulta->Visible=false;

    //Creación de la base de datos vacia y temporal para los criterios de consulta
    DatabaseConsultas->Connected=false;
    TablaConsulta->Active=false;
    TablaConsulta->DatabaseName=DatabaseConsultas->DatabaseName;
    TablaConsulta->TableName= fprincipal->PathBBDD + "consulta.db";
    TablaConsulta->TableType=ttParadox;

    if(!FileExists(fprincipal->PathBBDD + "consulta.db"))
    {
        TablaConsulta->FieldDefs->Clear();
        TablaConsulta->FieldDefs->Add("ID",ftAutoInc,0,true);
        TablaConsulta->FieldDefs->Add("ACTIVO",ftBoolean,0,true);
        TablaConsulta->FieldDefs->Add("CAMPO",ftString,15,true);
        TablaConsulta->FieldDefs->Add("CRITERIO",ftString,20,true);
        TablaConsulta->FieldDefs->Add("VALOR",ftString,15,true);
        TablaConsulta->IndexDefs->Clear();
        TablaConsulta->IndexDefs->Add("", "ID",TIndexOptions()<<ixPrimary<<ixUnique);
        TablaConsulta->CreateTable();
    }
    else //Borramos el contenido de la tabla si ya existía
        TablaConsulta->EmptyTable();

    TablaConsulta->Active=true;
    DatabaseConsultas->Connected=true;

    //Creamos las listas de valores posibles en función de que la consulta sea en
    //clientes o en Agenda
    //Limpio los items de los DBComboBox

    DBComboBoxCampo->Items->Clear();
    DBComboBoxCriterio->Items->Clear();

    if(RadioButtonClientes->Checked) //Consulta en clientes
    {
        //Rellenamos el valor de CAMPO
        for(int i=0;i< DataModuleBBDD->TablaClientes->Fields->Count; i++)
        {
            DBComboBoxCampo->Items->
                Add(DataModuleBBDD->TablaClientes->Fields->Fields[i]->FieldName);
        }
        // Vamos a comprobar si existen búsquedas de clientes almacenadas
        if(FileExists(fprincipal->PathBBDD + "consultaC.db"))
        {
            TablaConsultaC->DatabaseName=DatabaseConsultas->DatabaseName;
            TablaConsultaC->TableName= fprincipal->PathBBDD + "consultaC.db";
        }
    }
}
```



```

        TablaConsultaC->TableType=ttParadox;
        TablaConsultaC->Active=true;
        TablaConsulta->BatchMove(TablaConsultaC,batCopy);
    }
}
else          //Consulta en Agenda
{
    for(int i=0;i< DataModuleBBDD->TablaAgenda->Fields->Count; i++)
    {
        DBComboBoxCampo->Items->
            Add(DataModuleBBDD->TablaAgenda->Fields->Fields[i]->FieldName);
    }
    if(FileExists(fprincipal->PathBBDD + "consultaA.db"))
    {
        TablaConsultaA->DatabaseName=DatabaseConsultas->DatabaseName;
        TablaConsultaA->TableName= fprincipal->PathBBDD + "consultaA.db";
        TablaConsultaA->TableType=ttParadox;
        TablaConsultaA->Active=true;
        TablaConsulta->BatchMove(TablaConsultaA,batCopy);
    }
}

//si la tabla está vacío creamos la primera entrada
if(TablaConsulta->RecordCount<1)
{
    TablaConsulta->Edit();
    DBCheckBoxActivo->Checked=true;
    DBCheckBoxActivo->Field->AsBoolean=true;
    DBComboBoxCampo->ItemIndex=0; //selecciono el primero por defecto
    DBComboBoxCampo->Field->AsString=DBComboBoxCampo->Text;
    DBComboBoxCampoChange(this);
    DBComboBoxCriterio->ItemIndex=0;
    DBEditCriterio->Field->AsString=DBComboBoxCriterio->Text;

    TField * columna;
    if(RadioButtonClientes->Checked==true)
        columna=DataModuleBBDD->TablaClientes->FieldByName(DBComboBoxCampo
                                                                ->Text);
    else
        columna=DataModuleBBDD->TablaAgenda->FieldByName
                                                                (DBComboBoxCampo ->Text);

    if(columna->DataType==ftString || columna->DataType==ftMemo)
        DBEditValor->Text="Valor";
    else if(columna->DataType==ftBoolean)
        DBEditValor->Text="Verdadero";
    else
        DBEditValor->Text="0";
}
}

//-----
void __fastcall Tfconsulta::BotonSalirClick(TObject *Sender)
{
    if(RadioButtonClientes->Checked)
        SalvarBBDD("clientes");
    else

```

```
        SalvarBBDD("agenda");

    Close();
}

//-----
void __fastcall Tfconsulta::BotonBuscarClick(TObject *Sender)
{
    if(RadioButtonClientes->Checked)
    {
        QueryConsultaClientes->Active=false;
        QueryConsultaClientes->SQL->Clear();
    }
    else
    {
        QueryConsultaAgenda->Active=false;
        QueryConsultaAgenda->SQL->Clear();
    }

    AnsiString Sentencia, Tabla, Campos, Restricciones;

    //Tabla sobre la cual vamos a buscar
    if(RadioButtonClientes->Checked)
    {
        Tabla=" clientes ";
        //QueryConsulta->DatabaseName="clientes";
        DataSourceQuery->DataSet = QueryConsultaClientes;
    }
    else
    {
        Tabla=" agenda ";
        DataSourceQuery->DataSet = QueryConsultaAgenda;
        //QueryConsulta->DatabaseName="agenda";

        //Añadido de campos artificiales (lookup)
        TField *NuevoCampo;
        QueryConsultaLookup1->FieldName = "Intervalo";
        QueryConsultaLookup1->FieldKind = fkLookup;
        QueryConsultaLookup1->LookupDataSet = DataModuleBBDD->TablaIntervalo;
        QueryConsultaLookup1->LookupKeyFields = "IDIntervalo";
        QueryConsultaLookup1->LookupResultField = "Intervalo";
        QueryConsultaLookup1->DisplayLabel = "Intervalo";
        QueryConsultaLookup1->KeyFields = "IDIntervalo";/*
        //DataModuleBBDD->TablaAgenda->Fields->Add(NuevoCampo);

    }

    //En principio obtenemos todos los campos. En futuras versiones
    //podremos elegir que campo queremos mostrar
    Campos=" * ";
    //Las restricciones las obtenemos de TConsulta:
    Restricciones=" ";
    //En ppio no realizamos la búsqueda
    bool buscar=false;
    TablaConsulta->First();
```

```
while(!TablaConsulta->Eof)
{
    if(TablaConsulta->FieldByName("ACTIVO")->AsBoolean)
    {
        AnsiString campo,criterio,valor;

        //Obtenemos el valor
        valor="\\" + TablaConsulta->FieldByName("VALOR")->AsString + "\\";

        //Obtenemos el campo

        campo = TablaConsulta->FieldByName("CAMPO")->AsString;
        //Hay que hacer un procesamiento por si campo es un valor de un campo
        //de tipo lookup. Hay dos tipos de lookup: los que el usuario maneja
        //el ID y los que el usuario no los maneja.
        //Caso de campo lookup Intervalo

        if (campo == "Intervalo" )
        {
            campo = "IDIntervalo";
            TLocateOptions Opts;
            Opts.Clear();
            Opts << loPartialKey;

            AnsiString buscar = TablaConsulta->FieldByName("VALOR")->AsString;
            if ( !DataModuleBBDD->TablaIntervalo->Locate("Intervalo",buscar,Opts) )
                ShowMessage("El intervalo no se corresponde con ninguno conocido.
                               Inconsistencia en BBDDs");

            valor = "\\" + IntToStr(DataModuleBBDD->TablaIntervalo->FieldByName
                                   ("IDIntervalo")->AsInteger) + "\\";
        }

        if (campo == "Provincia" )
        {
            campo = "IDProv";
            TLocateOptions Opts;
            Opts.Clear();
            Opts << loPartialKey;

            AnsiString buscar = TablaConsulta->FieldByName("VALOR")->AsString;
            if ( !DataModuleBBDD->TablaProv->Locate("Provincia",buscar,Opts) )
                ShowMessage("El intervalo no se corresponde con ninguno conocido.
                               Inconsistencia en BBDDs");

            valor = "\\" + DataModuleBBDD->TablaProv->FieldByName("IDProv")->AsString +
                                   "\\";
        }

        if (campo == "Clasificacion1" )
        {
            campo = "IDClas1";
            TLocateOptions Opts;
            Opts.Clear();
            Opts << loPartialKey;

            AnsiString buscar = TablaConsulta->FieldByName("VALOR")->AsString;
```

```
if ( !DataModuleBBDD->TablaClas1->Locate("Clas1",buscar,Opts) )
    ShowMessage("El intervalo no se corresponde con ninguno conocido. \
                Inconsistencia en BBDDs");

valor = "\"" + IntToStr(DataModuleBBDD->TablaClas1->FieldByName("IDClas1")
                        ->AsInteger) + "\"";
}

if (campo == "Clasificacion2" )
{
    campo = "IDClas2";
    TLocateOptions Opts;
    Opts.Clear();
    Opts << loPartialKey;

    AnsiString buscar = TablaConsulta->FieldByName("VALOR")->AsString;
    if ( !DataModuleBBDD->TablaClas2->Locate("Clas2",buscar,Opts) )
        ShowMessage("El intervalo no se corresponde con ninguno conocido. \
                    Inconsistencia en BBDDs");

    valor = "\"" + IntToStr(DataModuleBBDD->TablaClas2->FieldByName("IDClas2")\
                            ->AsInteger) + "\"";
}

if (campo == "Clasificacion3" )
{
    campo = "IDClas3";
    TLocateOptions Opts;
    Opts.Clear();
    Opts << loPartialKey;

    AnsiString buscar = TablaConsulta->FieldByName("VALOR")->AsString;
    if ( !DataModuleBBDD->TablaClas3->Locate("Clas3",buscar,Opts) )
        ShowMessage("El intervalo no se corresponde con ninguno conocido. \
                    Inconsistencia en BBDDs");

    valor = "\"" + IntToStr(DataModuleBBDD->TablaClas3->FieldByName("IDClas3")\
                            ->AsInteger) + "\"";
}

//Hay que procesar de forma especial si hay fecha

if (campo == "Fecha")
{
    valor = TablaConsulta->FieldByName("VALOR")->AsString;
    TDateTime Fecha = StrToDate( valor );
    valor = "\"" + Fecha.FormatString("mm/dd/yyyy") + "\"";

    //Este es el formato que hay que usar en la sentencia SQL
}

//Obtenemos el criterio
criterio = TablaConsulta->FieldByName("CRITERIO")->AsString;

if(criterio=="MAYOR QUE")
{
```

```
        criterio=">";
    }
    else if (criterio=="MAYOR O IGUAL QUE" || criterio=="MAYOR O IG")
    {
        criterio=">=";
    }
    else if (criterio=="IGUAL QUE" || criterio=="ES")
    {
        criterio="=";
    }
    else if (criterio=="MENOR O IGUAL QUE" || criterio=="MENOR O IG")
    {
        criterio="<=";
    }
    else if (criterio=="MENOR QUE")
    {
        criterio="<";
    }
    else if (criterio=="CONTIENE")
    {
        criterio=" LIKE ";
        valor="\%" + TablaConsulta->FieldByName("VALOR")->AsString + "%\>";
    }
    else if (criterio=="NO ES")
    {
        criterio="<>";
    }
}

//Construimos la restricción
if ( RadioButtonY->Checked )
    Restricciones += campo + criterio + valor + " AND ";
else
    Restricciones += campo + criterio + valor + " OR ";

buscar=true;
}
TablaConsulta->Next(); //Pasamos al siguiente criterio de evaluacion
}
//Eliminamos la "," introducida al final
Restricciones.SetLength(Restricciones.Length()-4);
//Construimos la sentencia SQL
Sentencia="select" + Campos + "from" + Tabla + "where" + Restricciones + ";";
//DEBUG: Compruebo sintaxis de la Sentencia
//ShowMessage(Sentencia);
//Realizo la búsqueda si existe al menos un parámetro de búsqueda
if (buscar)
{
    if(RadioButtonClientes->Checked) //Estamos haciendo busqueda en clientes
    {
        QueryConsultaClientes->SQL->Add(Sentencia);
        QueryConsultaClientes->Active=true;
        QueryConsultaClientes->Open();
        //Muestro los resultados sólo si hay algunos
        if(QueryConsultaClientes->RecordCount)
        {
            Panel1->Visible=true;
            DBGridConsulta->Visible=true;
        }
    }
}
```

```
    }
    else
    {
        ShowMessage("No se ha encontrado ningún registro que coincida con los \
                    parámetro de búsqueda");
        Panel1->Visible=false;
        DBGridConsulta->Visible=false;
    }
}
else //Estamos haciendo busquedas en agenda
{
    QueryConsultaAgenda->SQL->Add(Sentencia);
    QueryConsultaAgenda->Active=true;
    QueryConsultaAgenda->Open();
    //Muestro los resultados sólo si hay algunos
    if(QueryConsultaAgenda->RecordCount)
    {
        Panel1->Visible=true;
        DBGridConsulta->Visible=true;
    }
    else
    {
        ShowMessage("No se ha encontrado ningún registro que coincida con los \
                    parámetro de búsqueda");

        Panel1->Visible=false;
        DBGridConsulta->Visible=false;
    }
}
}
else
    ShowMessage("No ha introducido ningún criterio de búsqueda");
}

//-----
void __fastcall Tfconsulta::BotonLimpiarClick(TObject *Sender)
{
    Panel1->Visible=false;
    DBGridConsulta->Visible=false;
    TablaConsulta->Active=false;
    TablaConsulta->EmptyTable();
    TablaConsulta->Active=true;
    IniciarDatos();
}

//-----
void __fastcall Tfconsulta::FormActivate(TObject *Sender)
{
    IniciarDatos();
}

//-----
void __fastcall Tfconsulta::SpeedButtonAnadirClick(TObject *Sender)
{
    TablaConsulta->Append();
    DBCheckBoxActivo->Checked=true;
    DBCheckBoxActivo->Field->AsBoolean=true;
    DBComboBoxCampo->ItemIndex=0; //selecciono el primero por defecto
```

```
DBComboBoxCampo->Field->AsString=DBComboBoxCampo->Text;
DBComboBoxCampoChange(this);
DBComboBoxCriterio->ItemIndex=0;
DBEditCriterio->Field->AsString=DBComboBoxCriterio->Text;

TField * columna;

if(RadioButtonClientes->Checked==true)
    columna = DataModuleBBDD->TablaClientes->FieldByName\
                                                (DBComboBoxCampo->Text);
else
    columna = DataModuleBBDD->TablaAgenda \
->FieldByName(DBComboBoxCampo->Text);

if(columna->DataType==ftString || columna->DataType==ftMemo)
    DBEditValor->Text="Valor";
else if(columna->DataType==ftBoolean)
    DBEditValor->Text="Verdadero";
else
    DBEditValor->Text="0";
}

//-----

void __fastcall Tfconsulta::SpeedButtonEliminarClick(TObject *Sender)
{
    //Por si hay algún post pendiente
    if(TablaConsulta->State==dsEdit || TablaConsulta->State==dsInsert)
        TablaConsulta->Post();
    if(TablaConsulta->RecordCount>1)
        TablaConsulta->Delete();
}

//-----

void __fastcall Tfconsulta::DBComboBoxCampoChange(TObject *Sender)
{
    //Se ha modificado campo
    TField *columna;
    if(RadioButtonClientes->Checked)

        columna = DataModuleBBDD->TablaClientes->FieldByName(DBComboBoxCampo\
                                                                ->Text);
    else
        columna = DataModuleBBDD->TablaAgenda->FieldByName\
                                                                (DBComboBoxCampo->Text);

    //Borramos los valores de Criterio

    DBComboBoxCriterio->Items->Clear();
    if (columna->DataType==ftString || columna->DataType==ftMemo)
    {
        //Si campo es string
        DBComboBoxCriterio->Items->Add("CONTIENE");
        DBComboBoxCriterio->Items->Add("ES");
    }
}
```

```
else if(columna->DataType==ftBoolean)
{
    DBComboBoxCriterio->Items->Add("ES");
    DBComboBoxCriterio->Items->Add("NO ES");
}
else
{
    //Si campo es numérico
    DBComboBoxCriterio->Items->Add("MAYOR QUE");
    DBComboBoxCriterio->Items->Add("MAYOR O IGUAL QUE");
    DBComboBoxCriterio->Items->Add("IGUAL QUE");
    DBComboBoxCriterio->Items->Add("MENOR O IGUAL QUE");
    DBComboBoxCriterio->Items->Add("MENOR QUE");
}

//Le asigno el primer valor por defecto
DBComboBoxCriterio->ItemIndex=0;

//Comprobación para que se pueda llevar a cabo el la asignación posterior
if ( TablaConsulta->State != dsEdit)
    TablaConsulta->Edit();

DBEditCriterio->Field->AsString=DBComboBoxCriterio->Text;

if(columna->DataType==ftString || columna->DataType==ftMemo)

    DBEditValor->Text="Valor";
else if(columna->DataType==ftBoolean)
    DBEditValor->Text="Verdadero";
else
    DBEditValor->Text="0";
}

//-----
void __fastcall Tfconsulta::RadioButtonClientesClick(TObject *Sender)
{
    //Tanto para Clientes como para Agenda, para salvar los datos hemos de
    //considerar que el valor de RadioButtonClientes->Checked refleja el valor nuevo,
    por
    //lo que hay que guardar la tabla que no corresponda al marcado actualmente

    if(RadioButtonClientes->Checked)
        SalvarBBDD("agenda");
    else
        SalvarBBDD("clientes");

    IniciarDatos();
}

//-----

void __fastcall Tfconsulta::DBGridConsultaCellClick(TColumn *Column)
{
    if ( RadioButtonClientes->Checked )
    {
        if ( Column->FieldName == "Comentarios" )
        {
```



```
QueryConsultaClientes->Active = false;
/*feditar_campo_cita->DBMemo1->DataSource = NULL;
feditar_campo_cita->DBMemo1->DataField = "";*/
feditar_campo_cita->DBMemo1->DataSource = DataSourceQuery;
feditar_campo_cita->DBMemo1->DataField = "Comentarios";
feditar_campo_cita->Caption = "SIGPYME: Ver comentarios";
QueryConsultaClientes->Active = true;
feditar_campo_cita->Show();
}
}
else
{
    if ( Column->FieldName == "Cita" )
    {
        QueryConsultaAgenda->Active = false;
        /*feditar_campo_cita->DBMemo1->DataSource = NULL;
feditar_campo_cita->DBMemo1->DataField = "";*/
feditar_campo_cita->DBMemo1->DataSource = DataSourceQuery;
feditar_campo_cita->DBMemo1->DataField = "Cita";
feditar_campo_cita->Caption = "SIGPYME: Ver cita";
QueryConsultaAgenda->Active = true;
feditar_campo_cita->Show();

    }
}
}

//-----
void __fastcall Tfconsulta::DBComboBoxCriterioClick(TObject *Sender)
{
    DBEditCriterio->Text=DBComboBoxCriterio->Text;
}

//-----
void __fastcall Tfconsulta::SalvarBBDD(AnsiString nombretabla)
{
    //Nos aseguramos que no queda ninguna operación pendiente para la tabla
    // TablaConsulta
    if(TablaConsulta->State==dsEdit || TablaConsulta->State==dsInsert)
        TablaConsulta->Post();
    // Copiamos la tabla TablaConsulta a TablaConsultaC o TablaConsultaA según
    // interese. Si la función es llamada desde el evento onclick de los radio
    // buttons hay que tener en cuenta que el que esté activo es el contrario del
    // que quiero salvar. Para eso en función de nombretabla salvo una u otra

    if(nombretabla=="clientes")
    {
        if(!FileExists(fprincipal->PathBBDD + "consultaC.db"))
        {
            //No existe la tabla, la creo
            //DatabaseConsultas->Connected=false;
            //TablaConsultaC->Active=false;
            TablaConsultaC->DatabaseName=DatabaseConsultas->DatabaseName;
            TablaConsultaC->TableName= fprincipal->PathBBDD + "consultaC.db";
            TablaConsultaC->TableType=ttParadox;
            TablaConsultaC->FieldDefs->Clear();
        }
    }
}
```

```

        TablaConsultaC->FieldDefs->Add("ID",ftAutoInc,0,true);
        TablaConsultaC->FieldDefs->Add("ACTIVO",ftBoolean,0,true);
        TablaConsultaC->FieldDefs->Add("CAMPO",ftString,15,true);
        TablaConsultaC->FieldDefs->Add("CRITERIO",ftString,20,true);
        TablaConsultaC->FieldDefs->Add("VALOR",ftString,15,true);
        TablaConsultaC->IndexDefs->Clear();
        TablaConsultaC->IndexDefs->Add("", "ID",TIndexOptions()<<ixPrimary<<ixUnique);
        TablaConsultaC->CreateTable();
    }

    TablaConsultaC->Active=false;
    TablaConsultaC->EmptyTable();
    TablaConsultaC->Active=true;
    TablaConsultaC->BatchMove(TablaConsulta,batCopy);
}
else
{
    if(!FileExists(fprincipal->PathBBDD + "consultaA.db"))
    {
        //No existe la tabla, la creo
        //DatabaseConsultas->Connected=false;
        //TablaConsultaA->Active=false;
        TablaConsultaA->DatabaseName=DatabaseConsultas->DatabaseName;
        TablaConsultaA->TableName= fprincipal->PathBBDD + "consultaA.db";
        TablaConsultaA->TableType=ftParadox;
        TablaConsultaA->FieldDefs->Clear();
        TablaConsultaA->FieldDefs->Add("ID",ftAutoInc,0,true);
        TablaConsultaA->FieldDefs->Add("ACTIVO",ftBoolean,0,true);
        TablaConsultaA->FieldDefs->Add("CAMPO",ftString,15,true);
        TablaConsultaA->FieldDefs->Add("CRITERIO",ftString,20,true);
        TablaConsultaA->FieldDefs->Add("VALOR",ftString,15,true);
        TablaConsultaA->IndexDefs->Clear();
        TablaConsultaA->IndexDefs->Add("", "ID",TIndexOptions()<<ixPrimary<<ixUnique);
        TablaConsultaA->CreateTable();
    }
    //No se pq carajo falla el path. Si no está consultaC.db en AppPath
    TablaConsultaA->Active=false;
    TablaConsultaA->EmptyTable();
    TablaConsultaA->Active=true;
    TablaConsultaA->BatchMove(TablaConsulta,batCopy);
}

}

//-----

void __fastcall Tfconsulta::BotonImprimirClick(TObject *Sender)
{
    if(RadioButtonClientes->Checked==true)
        finforme_consulta_clientes->QuickRep1->Preview();
    else

        finforme_consulta_citas->QuickRep1->Preview();

}
//-----

```

Archivo “consulta.h”

```
//-----

#ifndef consultaH
#define consultaH

//-----

#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ExtCtrls.hpp>
#include <Db.hpp>
#include <DBCGrids.hpp>
#include <DBCtrls.hpp>
#include <DBGrids.hpp>
#include <DBTables.hpp>
#include <Grids.hpp>
#include <Mask.hpp>
#include <Buttons.hpp>

//-----

class Tfconsulta : public TForm
{
__published: // IDE-managed Components
    TGroupBox *GroupBox1;
    TRadioButton *RadioButtonClientes;
    TRadioButton *RadioButtonAgenda;
    TGroupBox *GroupBox2;
    TTable *TablaConsulta;
    TDataSource *DataSourceConsulta;
    TQuery *QueryConsultaClientes;
    TDBCtrlGrid *DBCtrlGridConsulta;
    TDBCheckBox *DBCheckBoxActivo;
    TLabel *Label1;
    TLabel *Label2;
    TLabel *Label3;
    TLabel *Label4;
    TPanel *Panel1;
    TDBGrid *DBGridConsulta;
    TDatabase *DatabaseConsultas;
    TSpeedButton *SpeedButtonAnadir;
    TSpeedButton *SpeedButtonEliminar;
    TDBComboBox *DBComboBoxCampo;
    TDBEdit *DBEditValor;
    TDataSource *DataSourceQuery;
    TDBEdit *DBEditCriterio;
```

```
TDBComboBox *DBComboBoxCriterio;
TTable *TablaConsultaC;
TTable *TablaConsultaA;
TQuery *QueryConsultaAgenda;
TQuery *QueryConsulta;
TIntegerField *QueryConsultaIDCliente;
TIntegerField *QueryConsultaIDClas1;
TIntegerField *QueryConsultaIDClas2;
TIntegerField *QueryConsultaIDClas3;
TStringField *QueryConsultaNombre;
TStringField *QueryConsultaApellidos;
TStringField *QueryConsultaTfno;
TStringField *QueryConsultaEmail;
TStringField *QueryConsultaDomicilio;
TStringField *QueryConsultaCp;
TStringField *QueryConsultaLocalidad;
TStringField *QueryConsultaIDProv;
TMemoField *QueryConsultaComentarios;
TStringField *QueryConsultaLookup1;
TIntegerField *QueryConsultaClientesIDCliente;
TIntegerField *QueryConsultaClientesIDClas1;
TIntegerField *QueryConsultaClientesIDClas2;
TIntegerField *QueryConsultaClientesIDClas3;
TStringField *QueryConsultaClientesNombre;
TStringField *QueryConsultaClientesApellidos;
TStringField *QueryConsultaClientesTfno;
TStringField *QueryConsultaClientesEmail;
TStringField *QueryConsultaClientesDomicilio;
TStringField *QueryConsultaClientesCp;
TStringField *QueryConsultaClientesLocalidad;
TStringField *QueryConsultaClientesIDProv;
TMemoField *QueryConsultaClientesComentarios;
TStringField *QueryConsultaClientesClasificacion1;
TStringField *QueryConsultaClientesClasificacion2;
TStringField *QueryConsultaClientesClasificacion3;
TStringField *QueryConsultaClientesProvincia;
TIntegerField *QueryConsultaAgendaIDCaso;
TDateField *QueryConsultaAgendaFecha;
TTimeField *QueryConsultaAgendaHora;
TBooleanField *QueryConsultaAgendaPeriodicidad;
TIntegerField *QueryConsultaAgendaIDIntervalo;
TSmallIntField *QueryConsultaAgendaCantidad;
TMemoField *QueryConsultaAgendaCita;
TStringField *QueryConsultaAgendaIntervalo;
TGroupBox *GroupBox3;
TRadioButton *RadioButtonY;
TRadioButton *RadioButtonO;
TPanel *Panel2;
TButton *BotonBuscar;
TButton *BotonLimpiar;
TButton *BotonImprimir;
TButton *BotonSalir;

void __fastcall IniciarDatos(void);
void __fastcall BotonSalirClick(TObject *Sender);
void __fastcall BotonBuscarClick(TObject *Sender);
void __fastcall BotonLimpiarClick(TObject *Sender);
```

```
void __fastcall FormActivate(TObject *Sender);
void __fastcall SpeedButtonAnadirClick(TObject *Sender);
void __fastcall SpeedButtonEliminarClick(TObject *Sender);
void __fastcall DBComboBoxCampoChange(TObject *Sender);
void __fastcall RadioButtonClientesClick(TObject *Sender);
void __fastcall DBGridConsultaCellClick(TColumn *Column);
void __fastcall DBComboBoxCriterioClick(TObject *Sender);
void __fastcall DBEditValorKeyPress(TObject *Sender, char &Key);
void __fastcall BotonImprimirClick(TObject *Sender);
private: // User declarations

public: // User declarations
__fastcall Tfconsulta(TComponent* Owner);
void __fastcall SalvarBBDD(AnsiString tabla);
AnsiString buscando;
};

//-----

extern PACKAGE Tfconsulta *fconsulta;

//-----

#endif
```

Archivo “consulta.dfm”

```
object fconsulta: Tfconsulta
  Left = 277
  Top = 200
  AutoScroll = False
  AutoSize = True
  Caption = 'SIGPYME: Consultas'
  ClientHeight = 409
  ClientWidth = 601
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
  Font.Name = 'MS Sans Serif'
  Font.Style = []
  OldCreateOrder = False
  OnActivate = FormActivate
  PixelsPerInch = 96
  TextHeight = 13
  object GroupBox1: TGroupBox
    Left = 8
    Top = 0
    Width = 121
    Height = 81
    Caption = ' Busca en la tabla: '
    TabOrder = 0
    object RadioButtonClientes: TRadioButton
      Left = 32
```

```
Top = 24
Width = 65
Height = 17
Caption = 'Clientes'
Checked = True
TabOrder = 0
TabStop = True
OnClick = RadioButtonClientesClick
end
object RadioButtonAgenda: TRadioButton
Left = 32
Top = 48
Width = 65
Height = 17
Caption = 'Agenda'
TabOrder = 1
TabStop = True
OnClick = RadioButtonClientesClick
end
end
object GroupBox2: TGroupBox
Left = 136
Top = 0
Width = 465
Height = 177
Caption = ' Criterio de búsqueda '
TabOrder = 2
object Label1: TLabel
Left = 80
Top = 24
Width = 33
Height = 13
Caption = 'Campo'
end
object Label2: TLabel
Left = 192
Top = 24
Width = 32
Height = 13
Caption = 'Criterio'
end
object Label3: TLabel
Left = 320

Top = 24
Width = 24
Height = 13
Caption = 'Valor'
end
object Label4: TLabel
Left = 16
Top = 24
Width = 30
Height = 13
Caption = 'Activo'
end
object SpeedButtonAnadir: TSpeedButton
```

```
Left = 432
Top = 80
Width = 25
Height = 25
Glyph.Data = {
  E6000000424DE60000000000000000760000002800000000E0000000E0000000100
  040000000000700000000000000000000000100000000000000000000000000000
  BF0000BF000000BFBF00BF000000BF00BF00BFBF0000C0C0C000808080000000
  FF0000FF000000FFFF00FF000000FF00FF00FFFF0000FFFFFF00333333333333
  330033333333333333003333333333333300333330003333300333330F03333
  3300333330F033333300330000F000033300330FFFFFFF033300330000F00003
  3300333330F033333300333330F033333300333330003333300333333333333
  33003333333333333300}
OnClick = SpeedButtonAnadirClick
end
object SpeedButtonEliminar: TSpeedButton
Left = 432
Top = 112
Width = 25
Height = 25
Glyph.Data = {
  E6000000424DE60000000000000000760000002800000000E0000000E0000000100
  040000000000700000000000000000000000100000000000000000000000000000
  BF0000BF000000BFBF00BF000000BF00BF00BFBF0000C0C0C000808080000000
  FF0000FF000000FFFF00FF000000FF00FF00FFFF0000FFFFFF00333333333333
  33003333333333333300333333333333330033333333333300333333333333
  330033333333333333003300000000003300330FFFFFFF03300330000000000
  33003333333333333300333333333333330033333333333300333333333333
  33003333333333333300}
OnClick = SpeedButtonEliminarClick
end
object DBCtrlGridConsulta: TDBCtrlGrid
Left = 8
Top = 40
Width = 410
Height = 129
AllowDelete = False
AllowInsert = False
ColCount = 1
DataSource = DataSourceConsulta
PanelHeight = 43
PanelWidth = 393
TabOrder = 0
RowCount = 3
object DBComboBoxCriterio: TDBComboBox
Left = 152
Top = 8
Width = 105
Height = 21
DataField = 'CRITERIO'
DataSource = DataSourceConsulta
ItemHeight = 13
TabOrder = 4
OnClick = DBComboBoxCriterioClick
OnEnter = DBComboBoxCampoChange
end
object DBCheckBoxActivo: TDBCheckBox
```

```
Left = 20
Top = 10
Width = 13
Height = 17
DataField = 'ACTIVO'
DataSource = DataSourceConsulta
TabOrder = 0
ValueChecked = 'True'
ValueUnchecked = 'False'
end
object DBComboBoxCampo: TDBComboBox
Left = 40
Top = 8
Width = 105
Height = 21
Style = csDropDownList
DataField = 'CAMPO'
DataSource = DataSourceConsulta
ItemHeight = 13
TabOrder = 1
OnChange = DBComboBoxCampoChange
end
object DBEditValor: TDBEdit
Left = 264
Top = 8
Width = 121
Height = 21
DataField = 'VALOR'
DataSource = DataSourceConsulta
TabOrder = 2
OnKeyPress = DBEditValorKeyPress
end
object DBEditCriterio: TDBEdit
Left = 151
Top = 8
Width = 89
Height = 21
DataField = 'CRITERIO'
DataSource = DataSourceConsulta
ReadOnly = True
TabOrder = 3
end
end
end
object Panel1: TPanel
Left = 8
Top = 240
Width = 593
Height = 169
BevelOuter = bvLowered
TabOrder = 4
object DBGridConsulta: TDBGrid
Left = 8
Top = 8
Width = 577
Height = 153
DataSource = DataSourceQuery
```



```
    TabOrder = 0
    TitleFont.Charset = DEFAULT_CHARSET
    TitleFont.Color = clWindowText
    TitleFont.Height = -11
    TitleFont.Name = 'MS Sans Serif'
    TitleFont.Style = []
    OnCellClick = DBGridConsultaCellClick
end
end
object GroupBox3: TGroupBox
    Left = 8
    Top = 88
    Width = 121
    Height = 89
    Caption = 'Nexo de unión'
    TabOrder = 1
    object RadioButtonY: TRadioButton
        Left = 40
        Top = 24
        Width = 41
        Height = 17
        Caption = ""Y""
        TabOrder = 0
        TabStop = True
    end
    object RadioButtonO: TRadioButton
        Left = 40
        Top = 48
        Width = 41
        Height = 17
        Caption = ""O""
        TabOrder = 1
        TabStop = True
    end
end
object Panel2: TPanel
    Left = 0
    Top = 176
    Width = 601
    Height = 49
    BevelInner = bvLowered
    BorderStyle = bsSingle
    TabOrder = 3
    object BotonBuscar: TButton
        Left = 40
        Top = 12
        Width = 89
        Height = 25
        Caption = 'Buscar'
        TabOrder = 0
        OnClick = BotonBuscarClick
    end
    object BotonLimpiar: TButton
        Left = 168
        Top = 12
        Width = 89
        Height = 25
```

```
Caption = 'Limpiar'
TabOrder = 1
OnClick = BotonLimpiarClick
end
object BotonImprimir: TButton
  Left = 320
  Top = 12
  Width = 89
  Height = 25
  Caption = '&Imprimir'
  TabOrder = 2
  OnClick = BotonImprimirClick
end
object BotonSalir: TButton
  Left = 480
  Top = 12
  Width = 89
  Height = 25
  Caption = 'Salir'
  TabOrder = 3
  OnClick = BotonSalirClick
end
end
object TablaConsulta: TTable
  DatabaseName = 'consulta'
  TableName = 'consulta.db'
  Left = 128
end
object DataSourceConsulta: TDataSource
  DataSet = TablaConsulta
  Left = 160
end
object QueryConsultaClientes: TQuery
  DatabaseName = 'clientes'
  DataSource = DataModuleBBDD.DataSourceClientes
  SQL.Strings = (
    'select * from clientes')
  Left = 96

  Top = 32
  object QueryConsultaClientesIDCliente: TIntegerField
    FieldName = 'IDCliente'
    Origin = 'CLIENTES."clientes.DB".IDCliente'
  end
  object QueryConsultaClientesIDClas1: TIntegerField
    FieldName = 'IDClas1'
    Origin = 'CLIENTES."clientes.DB".IDClas1'
  end
  object QueryConsultaClientesIDClas2: TIntegerField
    FieldName = 'IDClas2'
    Origin = 'CLIENTES."clientes.DB".IDClas2'
  end
  object QueryConsultaClientesIDClas3: TIntegerField
    FieldName = 'IDClas3'
    Origin = 'CLIENTES."clientes.DB".IDClas3'
  end
  object QueryConsultaClientesNombre: TStringField
```

```
    FieldName = 'Nombre'
    Origin = 'CLIENTES."clientes.DB".Nombre'
end
object QueryConsultaClientesApellidos: TStringField
    FieldName = 'Apellidos'
    Origin = 'CLIENTES."clientes.DB".Apellidos'
    Size = 40
end
object QueryConsultaClientesTfno: TStringField
    FieldName = 'Tfno'
    Origin = 'CLIENTES."clientes.DB".Tfno'
    Size = 12
end
object QueryConsultaClientesEmail: TStringField
    FieldName = 'Email'
    Origin = 'CLIENTES."clientes.DB".Email'
    Size = 30
end
object QueryConsultaClientesDomicilio: TStringField
    FieldName = 'Domicilio'
    Origin = 'CLIENTES."clientes.DB".Domicilio'
    Size = 30
end
object QueryConsultaClientesCp: TStringField
    FieldName = 'Cp'
    Origin = 'CLIENTES."clientes.DB".Cp'
    Size = 5
end
object QueryConsultaClientesLocalidad: TStringField
    FieldName = 'Localidad'
    Origin = 'CLIENTES."clientes.DB".Localidad'
end
object QueryConsultaClientesIDProv: TStringField
    FieldName = 'IDProv'
    Origin = 'CLIENTES."clientes.DB".IDProv'
    Size = 3
end
object QueryConsultaClientesComentarios: TMemoField
    FieldName = 'Comentarios'
    Origin = 'CLIENTES."clientes.DB".Comentarios'
    BlobType = ftMemo
    Size = 240
end
object QueryConsultaClientesClasificacion1: TStringField
    FieldKind = fkLookup
    FieldName = 'Clasificacion1'
    LookupDataSet = DataModuleBBDD.TablaClas1
    LookupKeyFields = 'IDClas1'
    LookupResultField = 'Clas1'
    KeyFields = 'IDClas1'
    Lookup = True
end
object QueryConsultaClientesClasificacion2: TStringField
    FieldKind = fkLookup
    FieldName = 'Clasificacion2'
    LookupDataSet = DataModuleBBDD.TablaClas2
    LookupKeyFields = 'IDClas2'
```

```
LookupResultField = 'Clas2'
KeyFields = 'IDClas2'
Lookup = True
end
object QueryConsultaClientesClasificacion3: TStringField
FieldKind = fkLookup
FieldName = 'Clasificacion3'
LookupDataSet = DataModuleBBDD.TablaClas3
LookupKeyFields = 'IDClas3'
LookupResultField = 'Clas3'
KeyFields = 'IDClas3'
Lookup = True
end
object QueryConsultaClientesProvincia: TStringField
FieldKind = fkLookup
FieldName = 'Provincia'
LookupDataSet = DataModuleBBDD.TablaProv
LookupKeyFields = 'IDProv'
LookupResultField = 'Provincia'
KeyFields = 'IDProv'
Lookup = True
end
end
object DatabaseConsultas: TDatabase
Connected = True
DatabaseName = 'consulta'
DriverName = 'STANDARD'
SessionName = 'Default'
Left = 96
end
object DataSourceQuery: TDataSource
DataSet = QueryConsultaClientes
Left = 136
Top = 32
end
object TablaConsultaC: TTable
DatabaseName = 'consulta'
TableName = 'consultaC.db'
Left = 200
end
object TablaConsultaA: TTable
DatabaseName = 'consulta'
TableName = 'consultaA.db'
Left = 232
end
object QueryConsultaAgenda: TQuery
DatabaseName = 'agenda'
DataSource = DataModuleBBDD.DataSourceAgenda
SQL.Strings = (
  'select * from agenda')
Left = 104
Top = 64
object QueryConsultaAgendaIDCaso: TIntegerField
FieldName = 'IDCaso'
Origin = 'AGENDA."agenda.DB".IDCaso'
end
object QueryConsultaAgendaFecha: TDateField
```

```
    FieldName = 'Fecha'
    Origin = 'AGENDA."agenda.DB".Fecha'
end
object QueryConsultaAgendaHora: TTimeField
    FieldName = 'Hora'
    Origin = 'AGENDA."agenda.DB".Hora'
end
object QueryConsultaAgendaPeriodicidad: TBooleanField
    FieldName = 'Periodicidad'
    Origin = 'AGENDA."agenda.DB".Periodicidad'
end
object QueryConsultaAgendaIDIntervalo: TIntegerField
    FieldName = 'IDIntervalo'
    Origin = 'AGENDA."agenda.DB".IDIntervalo'
end
object QueryConsultaAgendaCantidad: TSmallintField
    FieldName = 'Cantidad'
    Origin = 'AGENDA."agenda.DB".Cantidad'
end
object QueryConsultaAgendaCita: TMemoField
    FieldName = 'Cita'
    Origin = 'AGENDA."agenda.DB".Cita'
    BlobType = ftMemo
    Size = 240
end
object QueryConsultaAgendaIntervalo: TStringField
    FieldKind = fkLookup
    FieldName = 'Intervalo'
    LookupDataSet = DataModuleBBDD.TablaIntervalo
    LookupKeyFields = 'IDIntervalo'
    LookupResultField = 'Intervalo'
    KeyFields = 'IDIntervalo'
    Lookup = True
end
end
object QueryConsulta: TQuery
    DatabaseName = 'clientes'
    DataSource = DataModuleBBDD.DataSourceClientes
    SQL.Strings = (
        'select * from clientes')
    Left = 128
    Top = 64
    object QueryConsultaIDCliente: TIntegerField
        FieldName = 'IDCliente'
        Origin = 'CLIENTES."clientes.DB".IDCliente'
    end
    object QueryConsultaIDClas1: TIntegerField
        FieldName = 'IDClas1'
        Origin = 'CLIENTES."clientes.DB".IDClas1'
    end
    object QueryConsultaIDClas2: TIntegerField
        FieldName = 'IDClas2'
        Origin = 'CLIENTES."clientes.DB".IDClas2'
    end
    object QueryConsultaIDClas3: TIntegerField
        FieldName = 'IDClas3'
        Origin = 'CLIENTES."clientes.DB".IDClas3'
```

```
end
object QueryConsultaNombre: TStringField
  FieldName = 'Nombre'
  Origin = 'CLIENTES."clientes.DB".Nombre'
end
object QueryConsultaApellidos: TStringField
  FieldName = 'Apellidos'
  Origin = 'CLIENTES."clientes.DB".Apellidos'
  Size = 40
end
object QueryConsultaTfno: TStringField
  FieldName = 'Tfno'
  Origin = 'CLIENTES."clientes.DB".Tfno'
  Size = 12
end
object QueryConsultaEmail: TStringField
  FieldName = 'Email'
  Origin = 'CLIENTES."clientes.DB".Email'
  Size = 30
end
object QueryConsultaDomicilio: TStringField
  FieldName = 'Domicilio'
  Origin = 'CLIENTES."clientes.DB".Domicilio'
  Size = 30
end
object QueryConsultaCp: TStringField
  FieldName = 'Cp'
  Origin = 'CLIENTES."clientes.DB".Cp'
  Size = 5
end
object QueryConsultaLocalidad: TStringField
  FieldName = 'Localidad'
  Origin = 'CLIENTES."clientes.DB".Localidad'
end
object QueryConsultaIDProv: TStringField
  FieldName = 'IDProv'
  Origin = 'CLIENTES."clientes.DB".IDProv'
  Size = 3
end
object QueryConsultaComentarios: TMemoField
  FieldName = 'Comentarios'
  Origin = 'CLIENTES."clientes.DB".Comentarios'
  BlobType = ftMemo
  Size = 240
end
object QueryConsultaLookup1: TStringField
  FieldKind = fkLookup
  FieldName = 'Lookup1'
  LookupDataSet = DataModuleBBDD.TablaClas1
  LookupKeyFields = 'IDClas1'
  LookupResultField = 'Clas1'
  KeyFields = 'IDClas1'
  Lookup = True
end
end
end
```

C.6. Formulario *feditar_campo_cita*.

Archivo “editar_campo_cita.cpp”

```
//-----  
  
#include <vcl.h>  
#pragma hdrstop  
  
#include "editar_campo_cita.h"  
#include "principal.h"  
#include "datosBBDD.h"  
//#include "agenda.h"  
//-----  
#pragma package(smart_init)  
#pragma resource "*.dfm"  
Tfeditar_campo_cita *feditar_campo_cita;  
//-----  
__fastcall Tfeditar_campo_cita::Tfeditar_campo_cita(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----
```

Archivo “editar_campo_cita.h”

```
//-----  
  
#ifndef editar_campo_citaH  
#define editar_campo_citaH  
//-----  
#include <Classes.hpp>  
#include <Controls.hpp>  
#include <StdCtrls.hpp>  
#include <Forms.hpp>  
#include <DBCtrls.hpp>  
//-----  
class Tfeditar_campo_cita : public TForm  
{  
    __published: // IDE-managed Components  
        TDBMemo *DBMemo1;  
    private: // User declarations  
    public: // User declarations  
        __fastcall Tfeditar_campo_cita(TComponent* Owner);  
};  
//-----  
extern PACKAGE Tfeditar_campo_cita *feditar_campo_cita;  
//-----  
#endif
```

Archivo “editar_campo_cita.dfm”

```
object feditar_campo_cita: Tfeditar_campo_cita
  Left = 211
  Top = 123
  Width = 478
  Height = 179
  Caption = 'SIGPYME: Editar cita'
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
  Font.Name = 'MS Sans Serif'
  Font.Style = []
  OldCreateOrder = False
  PixelsPerInch = 96
  TextHeight = 13
  object DBMemo1: TDBMemo
    Left = 0
    Top = 0
    Width = 470
    Height = 145
    Align = alClient
    TabOrder = 0
  end
end
```

C.7. Formulario finforme_citas_hoy.

Archivo “informe_citas_hoy.cpp”

```
//-----
#include <vcl.h>
#pragma hdrstop

#include "informe_citas_hoy.h"
#include "citas_hoy.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfinforme_citas_hoy *finforme_citas_hoy;
//-----
__fastcall Tfinforme_citas_hoy::Tfinforme_citas_hoy(TComponent* Owner)
: TForm(Owner)
{
}
//-----
```


Archivo “informe_citas_hoy.h”

```
//-----
#ifndef informe_citas_hoyH
#define informe_citas_hoyH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ExtCtrls.hpp>
#include <QuickRpt.hpp>
#include <Qrctrls.hpp>
//-----
class Tfinforme_citas_hoy : public TForm
{
__published: // IDE-managed Components
    TQuickRep *QuickRep1;
    TQRBand *PageHeaderBand1;
    TQRBand *DetailBand1;
    TQRBand *SummaryBand1;
    TQRBand *PageFooterBand1;
    TQRSysData *QRSysData1;
    TQRSysData *QRSysData2;
    TQRShape *QRShape1;
    TQRDBText *QRDBText1;
    TQRDBText *QRDBText2;
    TQRDBText *QRDBText3;
    TQRDBText *QRDBText4;
    TQRDBText *QRDBText5;
    TQRDBText *QRDBText6;
    TQRLabel *QRLabel1;
    TQRLabel *QRLabel2;
    TQRLabel *QRLabel3;
    TQRLabel *QRLabel4;
    TQRShape *QRShape2;
    TQRLabel *QRLabel5;
    TQRExpr *QRExpr1;
    TQRLabel *QRLabel6;
    TQRSysData *QRSysData3;
private: // User declarations
public: // User declarations
    __fastcall Tfinforme_citas_hoy(TComponent* Owner);
};
//-----
extern PACKAGE Tfinforme_citas_hoy *finforme_citas_hoy;
//-----
#endif
```

Archivo “informe_citas_hoy.dfm”

```
object finforme_citas_hoy: Tfinforme_citas_hoy
```

```
Left = 192
Top = 114
Width = 820
Height = 490
Caption = 'SIGPYME: Informe de las citas de hoy'
Color = clBtnFace
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -11
Font.Name = 'MS Sans Serif'
Font.Style = []
OldCreateOrder = False
Scaled = False
PixelsPerInch = 96
TextHeight = 13
object QuickRep1: TQuickRep
  Left = 0
  Top = 0
  Width = 794
  Height = 1123
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  DataSet = fcitas_hoy.TablaResultados
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -13
  Font.Name = 'Arial'
  Font.Style = []
  Functions.Strings = (
    'PAGENUMBER'
    'COLUMNNUMBER'
    'REPORTTITLE')
  Functions.DATA = (
    '0'
    '0'
    #39#39)
  Options = [FirstPageHeader, LastPageFooter]
  Page.Columns = 1
  Page.Orientation = poPortrait
  Page.PaperSize = A4
  Page.Values = (
    100
    2970
    100
    2100
    100
    100
    0)
  PrinterSettings.Copies = 1
  PrinterSettings.Duplex = False
  PrinterSettings.FirstPage = 0
  PrinterSettings.LastPage = 0
  PrinterSettings.OutputBin = Auto
  PrintIfEmpty = True
```

```
ReportTitle = 'Informe de las citas de hoy: '
SnapToGrid = True
Units = MM
Zoom = 100
object PageHeaderBand1: TQRBand
  Left = 38
  Top = 38
  Width = 718
  Height = 59
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  AlignToBottom = False
  Color = clWhite
  ForceNewColumn = False
  ForceNewPage = False
  Size.Values = (
    156.1041666666667
    1899.708333333333)
  BandType = rbPageHeader
  object QRSysData1: TQRSysData
    Left = 128
    Top = 8

    Width = 125
    Height = 25
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
      66.14583333333333

      338.6666666666667
      21.1666666666667
      330.7291666666667)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    Color = clWhite
    Data = qrsReportTitle
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clWindowText
    Font.Height = -21
    Font.Name = 'Arial'
    Font.Style = [fsBold]
    ParentFont = False
    Transparent = False
    FontSize = 16
  end
  object QRSysData2: TQRSysData
    Left = 408
    Top = 8
    Width = 61
```

```
Height = 25
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    66.1458333333333
    1079.5
    21.1666666666667
    161.395833333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
Color = clWhite
Data = qrsDate
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -21
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
FontSize = 16
end
object QRShape1: TQRShape
    Left = 0
    Top = 48
    Width = 721
    Height = 9
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        23.8125
        0
        127
        1907.64583333333)
    Shape = qrsHorLine
end
end
object DetailBand1: TQRBand
    Left = 38
    Top = 97
    Width = 718
    Height = 144
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    AlignToBottom = False
    Color = clWhite
    ForceNewColumn = False
    ForceNewPage = False
```

```
Size.Values = (  
    381  
    1899.708333333333)  
BandType = rbDetail  
object QRDBText1: TQRDBText  
    Left = 200  
    Top = 8  
    Width = 37  
    Height = 17  
    Frame.Color = clBlack  
    Frame.DrawTop = False  
    Frame.DrawBottom = False  
    Frame.DrawLeft = False  
    Frame.DrawRight = False  
    Size.Values = (  
        44.97916666666667  
        529.1666666666667  
        21.16666666666667  
        97.89583333333333)  
    Alignment = taLeftJustify  
    AlignToBand = False  
    AutoSize = True  
    AutoStretch = False  
    Color = clWhite  
    DataSet = fcitas_hoy.TablaResultados  
    DataField = 'Fecha'  
    Transparent = False  
    WordWrap = True  
    FontSize = 10  
end  
object QRDBText2: TQRDBText  
    Left = 384  
    Top = 8  
    Width = 28  
    Height = 17  
    Frame.Color = clBlack  
    Frame.DrawTop = False  
    Frame.DrawBottom = False  
    Frame.DrawLeft = False  
    Frame.DrawRight = False  
    Size.Values = (  
        44.97916666666667  
        1016  
        21.16666666666667  
        74.08333333333333)  
    Alignment = taLeftJustify  
    AlignToBand = False  
    AutoSize = True  
    AutoStretch = False  
    Color = clWhite  
    DataSet = fcitas_hoy.TablaResultados  
    DataField = 'Hora'  
    Transparent = False  
    WordWrap = True  
    FontSize = 10  
end  
object QRDBText3: TQRDBText
```

```
Left = 136
Top = 48
Width = 72
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    359.8333333333333
    127
    190.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fcitas_hoy.TablaResultados
DataField = 'Periodicidad'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText4: TQRDBText
Left = 328
Top = 48

Width = 48
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    867.8333333333334
    127
    127)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fcitas_hoy.TablaResultados
DataField = 'Intervalo'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText5: TQRDBText
Left = 512
Top = 48
Width = 52
Height = 17
```

```
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1354.666666666667
    127
    137.5833333333333)

Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fcitas_hoy.TablaResultados
DataField = 'Cantidad'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText6: TQRDBText
Left = 128
Top = 80
Width = 24
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    338.6666666666667
    211.6666666666667
    63.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fcitas_hoy.TablaResultados
DataField = 'Cita'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel1: TQRLabel
Left = 56
Top = 48
Width = 76
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
```

```
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    148.1666666666667
    127
    201.0833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Periodicidad:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel2: TQRLabel
Left = 272
Top = 48
Width = 52
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    719.6666666666667
    127
    137.5833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Intervalo:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel3: TQRLabel
Left = 456
Top = 48
Width = 56
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1206.5
    127
    148.1666666666667)
Alignment = taLeftJustify
```



```
AlignToBand = False
AutoSize = True

AutoStretch = False
Caption = 'Cantidad:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel4: TQRLabel
  Left = 96
  Top = 80
  Width = 28
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    254
    211.6666666666667
    74.08333333333333)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'Cita:'
  Color = clWhite
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRShape2: TQRShape
  Left = 0
  Top = 128
  Width = 721
  Height = 9
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    23.8125
    0
    338.6666666666667
    1907.645833333333)
  Pen.Style = psDash
  Shape = qrsHorLine
end
end
object SummaryBand1: TQRBand
  Left = 38
  Top = 241
```

```
Width = 718
Height = 40
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    105.833333333333
    1899.70833333333)
BandType = rbSummary
object QRLabel5: TQRLabel
    Left = 184
    Top = 16
    Width = 150
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        486.833333333333
        42.3333333333333
        396.875)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Caption = 'Número de citas para hoy'
    Color = clWhite
    Transparent = False
    WordWrap = True
    FontSize = 10
end
object QRExp1: TQRExp
    Left = 352
    Top = 16
    Width = 45
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        931.333333333334
        42.3333333333333
        119.0625)
    Alignment = taLeftJustify
    AlignToBand = False
```

```
AutoSize = True
AutoStretch = False
Color = clWhite
ResetAfterPrint = False
Transparent = False
WordWrap = True

Expression = 'COUNT'
FontSize = 10
end
end
object PageFooterBand1: TQRBand
Left = 38
Top = 281
Width = 718
Height = 40
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    105.833333333333
    1899.70833333333)
BandType = rbPageFooter
object QRLabel6: TQRLabel
Left = 280
Top = 16
Width = 41
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (

    44.9791666666667
    740.833333333333
    42.3333333333333
    108.479166666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Página'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRSysData3: TQRSysData
Left = 328
```

```
Top = 16
Width = 46
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  867.8333333333334
  42.33333333333333
  121.7083333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
Color = clWhite
Data = qrsPageNumber
Transparent = False
FontSize = 10
end
end
end
end
```

C.8. Formulario *finforme_consulta_citas*.

Archivo “informe_consula_citas.cpp”

```
//-----
#include <vcl.h>
#pragma hdrstop

#include "informe_consulta_citas.h"
#include "consulta.h"
//-----

#pragma package(smart_init)
#pragma resource "*.dfm"
Tfinforme_consulta_citas *finforme_consulta_citas;
//-----
__fastcall Tfinforme_consulta_citas::Tfinforme_consulta_citas(TComponent* Owner)
: TForm(Owner)
{
}
//-----
```

Archivo “informe_consulta_citas.h”

```
//-----
#ifndef informe_consulta_citasH
#define informe_consulta_citasH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ExtCtrls.hpp>
#include <QuickRpt.hpp>
#include <Qrctrls.hpp>
//-----
class Tfinforme_consulta_citas : public TForm
{
__published: // IDE-managed Components
    TQuickRep *QuickRep1;
    TQRBand *PageHeaderBand1;
    TQRBand *DetailBand1;
    TQRBand *SummaryBand1;
    TQRBand *PageFooterBand1;
    TQRSysData *QRSysData2;
    TQRSysData *QRSysData1;
    TQRShape *QRShape1;
    TQRDBText *QRDBText2;
    TQRDBText *QRDBText1;
    TQRDBText *QRDBText3;
    TQRDBText *QRDBText4;
    TQRDBText *QRDBText5;
    TQRDBText *QRDBText6;
    TQRShape *QRShape2;
    TQRExpr *QRExpr1;
    TQRLabel *QRLabel2;
    TQRSysData *QRSysData3;
    TQRLabel *QRLabel1;
    TQRLabel *QRLabel3;
    TQRLabel *QRLabel4;
    TQRLabel *QRLabel5;
    TQRLabel *QRLabel6;
private: // User declarations
public: // User declarations
    __fastcall Tfinforme_consulta_citas(TComponent* Owner);
};
//-----
extern PACKAGE Tfinforme_consulta_citas *finforme_consulta_citas;
//-----
#endif
```

Archivo “informe_consulta_citas.dfm”

```
object finforme_consulta_citas: Tfinforme_consulta_citas
    Left = 255
```

```
Top = 156
Width = 806
Height = 492
Caption = 'finforme_consulta_citas'
Color = clBtnFace
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -11
Font.Name = 'MS Sans Serif'
Font.Style = []
OldCreateOrder = False
Scaled = False
PixelsPerInch = 96
TextHeight = 13
object QuickRep1: TQuickRep
  Left = -8
  Top = 0
  Width = 794
  Height = 1123
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  DataSet = fconsulta.QueryConsultaAgenda
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -13
  Font.Name = 'Arial'
  Font.Style = []
  Functions.Strings = (
    'PAGENUMBER'
    'COLUMNNUMBER'
    'REPORTTITLE')
  Functions.DATA = (
    '0'
    '0'
    #39#39)
  Options = [FirstPageHeader, LastPageFooter]
  Page.Columns = 1
  Page.Orientation = poPortrait
  Page.PaperSize = A4
  Page.Values = (
    100
    2970
    100
    2100
    100
    100
    0)
  PrinterSettings.Copies = 1
  PrinterSettings.Duplex = False
  PrinterSettings.FirstPage = 0
  PrinterSettings.LastPage = 0
  PrinterSettings.OutputBin = Auto
  PrintIfEmpty = True
  ReportTitle = 'Informe de consulta de citas'
```

```
SnapToGrid = True
Units = MM
Zoom = 100
object PageHeaderBand1: TQRBand
  Left = 38
  Top = 38
  Width = 718
  Height = 99
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  AlignToBottom = False
  Color = clWhite
  ForceNewColumn = False
  ForceNewPage = False
  Size.Values = (
    261.9375
    1899.708333333333)
  BandType = rbPageHeader
object QRSysData2: TQRSysData
  Left = 457
  Top = 57
  Width = 36
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    1209.145833333333
    150.8125
    95.25)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  Color = clWhite
  Data = qrsDate
  Transparent = False
  FontSize = 10
end
object QRSysData1: TQRSysData
  Left = 276
  Top = 24
  Width = 165
  Height = 33
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    87.3125
    730.25
```

```
63.5
436.5625)
Alignment = taCenter
AlignToBand = True
AutoSize = True
Color = clWhite
Data = qrsReportTitle
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -27
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
FontSize = 20
end
object QRShape1: TQRShape
Left = 0
Top = 80
Width = 721
Height = 9
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
23.8125
0
211.666666666667
1907.64583333333)
Shape = qrsHorLine
end
end
object DetailBand1: TQRBand
Left = 38
Top = 137
Width = 718
Height = 128
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
338.666666666667
1899.70833333333)
BandType = rbDetail
object QRDBText2: TQRDBText
Left = 448
Top = 16
Width = 38
Height = 20
```



```
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    52.9166666666667
    1185.33333333333
    42.3333333333333
    100.541666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaAgenda
DataField = 'Hora'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -16
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 12
end
object QRDBText1: TQRDBText
Left = 240
Top = 16
Width = 54
Height = 23
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    60.8541666666667
    635
    42.3333333333333
    142.875)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaAgenda
DataField = 'Fecha'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -19
Font.Name = 'Arial'
Font.Style = []
ParentFont = False
Transparent = False
WordWrap = True
```

```
FontSize = 14
end
object QRDBText3: TQRDBText
  Left = 184
  Top = 48
  Width = 72
  Height = 17

  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    486.8333333333333
    127
    190.5)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  DataSet = fconsulta.QueryConsultaAgenda
  DataField = 'Periodicidad'
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRDBText4: TQRDBText
  Left = 344
  Top = 48
  Width = 48
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    910.1666666666667
    127
    127)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  DataSet = fconsulta.QueryConsultaAgenda
  DataField = 'Intervalo'
  Transparent = False
  WordWrap = True
  FontSize = 10

end
object QRDBText5: TQRDBText
```

```
Left = 488
Top = 48
Width = 52
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1291.166666666667
    127
    137.5833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaAgenda
DataField = 'Cantidad'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText6: TQRDBText
Left = 104
Top = 72
Width = 24
Height = 33
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    87.3125
    275.1666666666667
    190.5
    63.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaAgenda
DataField = 'Cita'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRShape2: TQRShape
Left = 8
Top = 104
Width = 721
Height = 9
Frame.Color = clBlack
```

```
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    23.8125
    21.166666666666667
    275.16666666666667
    1907.6458333333333)
Pen.Style = psDash
Shape = qrsHorLine
end
object QRLabel3: TQRLabel
Left = 104
Top = 48
Width = 72
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.979166666666667
    275.16666666666667
    127
    190.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Periodicidad'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel4: TQRLabel
Left = 280
Top = 48
Width = 48
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.979166666666667
    740.8333333333333
    127
    127)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Intervalo'
```

```
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel5: TQRLabel
Left = 424
Top = 48
Width = 52
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  1121.833333333333
  127
  137.5833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Cantidad'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel6: TQRLabel
Left = 72
Top = 72
Width = 24
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  190.5
  190.5
  63.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Cita'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
end
object SummaryBand1: TQRBand
```

```
Left = 38
Top = 265
Width = 718
Height = 40
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    105.833333333333
    1899.70833333333)
BandType = rbSummary
object QRExpr1: TQRExpr
    Left = 368
    Top = 16
    Width = 45
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        973.666666666667
        42.3333333333333
        119.0625)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Color = clWhite
    ResetAfterPrint = False
    Transparent = False
    WordWrap = True
    Expression = 'COUNT'
    FontSize = 10
end
object QRLabel2: TQRLabel
    Left = 232
    Top = 16
    Width = 129
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        613.833333333333
        42.3333333333333
```

```
341.3125)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Numero total de citas:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
end
object PageFooterBand1: TQRBand
Left = 38
Top = 305
Width = 718
Height = 40
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
105.833333333333
1899.70833333333)
BandType = rbPageFooter
object QRSysData3: TQRSysData
Left = 344
Top = 8
Width = 46
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.9791666666667
910.166666666667

21.1666666666667
121.708333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
Color = clWhite
Data = qrsPageNumber
Transparent = False
FontSize = 10
end
object QRLabel1: TQRLabel
Left = 280
Top = 8
```

```
Width = 49
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  740.8333333333333
  21.16666666666667
  129.6458333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Pagina: '
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
end
end
end
```

C.9. Formulario finforme_consulta_clientes.

Archivo “informe_consulta_clientes.cpp”

```
//-----
#include <vcl.h>
#pragma hdrstop

#include "informe_consulta_clientes.h"
#include "consulta.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfinforme_consulta_clientes *finforme_consulta_clientes;
//-----
__fastcall Tfinforme_consulta_clientes::Tfinforme_consulta_clientes(TComponent*
Owner)
: TForm(Owner)
{
}
//-----
```


Archivo “informe_consulta_clientes.h”

```
//-----
#ifndef informe_consulta_clientesH
#define informe_consulta_clientesH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ExtCtrls.hpp>
#include <Qrctrls.hpp>
#include <QuickRpt.hpp>
//-----
class Tinforme_consulta_clientes : public TForm
{
__published: // IDE-managed Components
    TQuickRep *QuickRep1;
    TQRBand *PageHeaderBand1;
    TQRBand *DetailBand1;
    TQRBand *SummaryBand1;
    TQRBand *PageFooterBand1;
    TQRSysData *QRSysData1;
    TQRSysData *QRSysData2;
    TQRShape *QRShape1;
    TQRDBText *QRDBText1;
    TQRDBText *QRDBText2;
    TQRDBText *QRDBText3;
    TQRDBText *QRDBText7;
    TQRLabel *QRLabel6;
    TQRDBText *QRDBText11;
    TQRLabel *QRLabel10;
    TQRDBText *QRDBText10;
    TQRDBText *QRDBText6;
    TQRLabel *QRLabel5;
    TQRLabel *QRLabel9;
    TQRDBText *QRDBText9;
    TQRLabel *QRLabel8;
    TQRDBText *QRDBText5;
    TQRLabel *QRLabel4;
    TQRDBText *QRDBText4;
    TQRLabel *QRLabel3;
    TQRLabel *QRLabel7;
    TQRDBText *QRDBText8;
    TQRLabel *QRLabel11;
    TQRDBText *QRDBText12;
    TQRShape *QRShape2;
    TQRLabel *QRLabel1;
    TQRExpr *QRExpr1;
    TQRLabel *QRLabel2;
    TQRSysData *QRSysData3;
    TQRShape *QRShape3;
private: // User declarations
public: // User declarations
    __fastcall Tinforme_consulta_clientes(TComponent* Owner);
```

```
};  
//-----  
extern PACKAGE Tfinforme_consulta_clientes *finforme_consulta_clientes;  
//-----  
#endif
```

Archivo “informe_consulta_clientes.dfm”

```
object finforme_consulta_clientes: Tfinforme_consulta_clientes  
  Left = 229  
  Top = 158  
  Width = 742  
  Height = 631  
  Caption = 'SIGPYME: Informe de la consulta de clientes'  
  Color = clBtnFace  
  Font.Charset = DEFAULT_CHARSET  
  Font.Color = clWindowText  
  Font.Height = -11  
  Font.Name = 'MS Sans Serif'  
  Font.Style = []  
  OldCreateOrder = False  
  Scaled = False  
  PixelsPerInch = 96  
  TextHeight = 13  
  object QuickRep1: TQuickRep  
    Left = -32  
    Top = 0  
    Width = 794  
    Height = 1123  
    Frame.Color = clBlack  
    Frame.DrawTop = False  
    Frame.DrawBottom = False  
    Frame.DrawLeft = False  
    Frame.DrawRight = False  
    DataSet = fconsulta.QueryConsultaClientes  
    Font.Charset = DEFAULT_CHARSET  
    Font.Color = clWindowText  
    Font.Height = -13  
    Font.Name = 'Arial'  
    Font.Style = []  
    Functions.Strings = (  
      'PAGENUMBER'  
      'COLUMNNUMBER'  
      'REPORTTITLE')  
    Functions.DATA = (  
      '0'  
      '0'  
      #39#39)  
    Options = [FirstPageHeader, LastPageFooter]  
    Page.Columns = 1  
    Page.Orientation = poPortrait  
    Page.PaperSize = A4  
    Page.Values = (  

```

```
100
2970
100
2100
100
100
0)
PrinterSettings.Copies = 1
PrinterSettings.Duplex = False
PrinterSettings.FirstPage = 0
PrinterSettings.LastPage = 0
PrinterSettings.OutputBin = Auto
PrintIfEmpty = True
ReportTitle = 'Informe de la consulta'
SnapToGrid = True
Units = MM
Zoom = 100
object PageHeaderBand1: TQRBand
  Left = 38
  Top = 38
  Width = 718
  Height = 75
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  AlignToBottom = False
  Color = clWhite
  ForceNewColumn = False
  ForceNewPage = False
  Size.Values = (
    198.4375
    1899.708333333333)
BandType = rbPageHeader
object QRSysData1: TQRSysData
  Left = 288
  Top = 8
  Width = 125
  Height = 25
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    66.1458333333333
    762
    21.1666666666667
    330.729166666667)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  Color = clWhite
  Data = qrsReportTitle
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
```

```
Font.Height = -21
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
FontSize = 16
end
object QRSysData2: TQRSysData
  Left = 416
  Top = 40
  Width = 68
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.9791666666667
    1100.66666666667
    105.833333333333
    179.916666666667)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  Color = clWhite
  Data = qrsDateTime
  Transparent = False
  FontSize = 10
end
object QRShape1: TQRShape
  Left = 0
  Top = 64
  Width = 713
  Height = 9
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    23.8125
    0
    169.333333333333
    1886.47916666667)
  Shape = qrsHorLine
end
end
object DetailBand1: TQRBand
  Left = 38
  Top = 113
  Width = 718
  Height = 176
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
```

```
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    465.666666666667
    1899.70833333333)
BandType = rbDetail
object QRDBText1: TQRDBText
    Left = 48
    Top = 8
    Width = 119
    Height = 23
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        60.8541666666667
        127
        21.1666666666667
        314.854166666667)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Color = clWhite
    DataSet = fconsulta.QueryConsultaClientes
    DataField = 'Clasificacion1'
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clWindowText
    Font.Height = -19
    Font.Name = 'Arial'
    Font.Style = []
    ParentFont = False
    Transparent = False
    WordWrap = True
    FontSize = 14
end
object QRDBText2: TQRDBText
    Left = 256
    Top = 8
    Width = 100
    Height = 19
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        50.2708333333333
        677.333333333333
        21.1666666666667
        264.583333333333)
    Alignment = taLeftJustify
```

```
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Clasificacion2'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -16
Font.Name = 'Arial'
Font.Style = []
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 12
end
object QRDBText3: TQRDBText
Left = 456
Top = 8
Width = 89
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.9791666666667
  1206.5
  21.1666666666667
  235.479166666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Clasificacion3'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -13
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText7: TQRDBText
Left = 528
Top = 56
Width = 34
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
```

```
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1397
    148.1666666666667
    89.95833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Email'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel6: TQRLabel
Left = 480
Top = 56
Width = 42
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1270
    148.1666666666667
    111.125)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'E-mail:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText11: TQRDBText
Left = 544
Top = 88
Width = 53
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1439.333333333333
    232.8333333333333
    140.2291666666667)
```

```
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Provincia'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel10: TQRLabel
Left = 480
Top = 88
Width = 57
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.9791666666667
  1270
  232.833333333333
  150.8125)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Provincia:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText10: TQRDBText
Left = 392
Top = 88
Width = 56
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.9791666666667
  1037.16666666667
  232.833333333333
  148.166666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
```



```
DataField = 'Localidad'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText6: TQRDBText
  Left = 400
  Top = 56
  Width = 25
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    1058.333333333333
    148.1666666666667
    66.14583333333333)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  DataSet = fconsulta.QueryConsultaClientes
  DataField = 'Tfno'
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRLabel5: TQRLabel
  Left = 344
  Top = 56
  Width = 53
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    910.1666666666667
    148.1666666666667
    140.2291666666667)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'Teléfono:'
  Color = clWhite
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRLabel9: TQRLabel
```

```
Left = 328
Top = 88
Width = 60
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    867.8333333333333
    232.8333333333333
    158.75)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Localidad:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText9: TQRDBText
Left = 280
Top = 88
Width = 17
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    740.8333333333333
    232.8333333333333
    44.97916666666667)
Alignment = taLeftJustify
AlignToBand = False

AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Cp'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel8: TQRLabel
Left = 256
Top = 88
Width = 23
Height = 17
Frame.Color = clBlack
```

```
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    677.3333333333333
    232.8333333333333
    60.85416666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'CP:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText5: TQRDBText
Left = 224
Top = 56
Width = 54
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    592.6666666666667
    148.1666666666667
    142.875)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Apellidos'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel4: TQRLabel
Left = 160
Top = 56
Width = 58
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
```

```
423.3333333333333
148.1666666666667
153.4583333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Apellidos:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end

object QRDBText4: TQRDBText
Left = 64
Top = 56
Width = 46
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.9791666666667
169.3333333333333
148.1666666666667
121.7083333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Nombre'
Transparent = False
WordWrap = True
FontSize = 10
end

object QRLabel3: TQRLabel
Left = 16
Top = 56
Width = 50
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.9791666666667
42.3333333333333
148.1666666666667
132.2916666666667)
Alignment = taLeftJustify
AlignToBand = False
```

```
AutoSize = True
AutoStretch = False
Caption = 'Nombre:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel7: TQRLabel
  Left = 16
  Top = 88
  Width = 58
  Height = 17
  Frame.Color = clBlack

  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.9791666666667
    42.3333333333333
    232.833333333333
    153.458333333333)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'Domicilio:'
  Color = clWhite
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRDBText8: TQRDBText
  Left = 80
  Top = 88
  Width = 54
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.9791666666667
    211.666666666667
    232.833333333333
    142.875)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  DataSet = fconsulta.QueryConsultaClientes
  DataField = 'Domicilio'
  Transparent = False
```

```
WordWrap = True
FontSize = 10
end
object QRLabel11: TQRLabel
Left = 16
Top = 120
Width = 78
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.97916666666667
42.33333333333333
317.5
206.375)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Comentarios:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText12: TQRDBText
Left = 96
Top = 120
Width = 74
Height = 33
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
87.3125
254
317.5
195.7916666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = fconsulta.QueryConsultaClientes
DataField = 'Comentarios'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRShape2: TQRShape
Left = 0
Top = 160
```

```
Width = 721
Height = 9
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  23.8125
  0
  423.333333333333
  1907.64583333333)
Pen.Style = psDash
Shape = qrsHorLine
end
end
object SummaryBand1: TQRBand
Left = 38
Top = 289
Width = 718
Height = 56
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
  148.166666666667
  1899.70833333333)
BandType = rbSummary
object QRLabel1: TQRLabel
Left = 152
Top = 16
Width = 142
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.9791666666667
  402.166666666667
  42.3333333333333
  375.708333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Número total de clientes'
Color = clWhite
Transparent = False
WordWrap = True
```

```
    FontSize = 10
end
object QRExpr1: TQRExpr
    Left = 312
    Top = 16
    Width = 45
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        825.5
        42.3333333333333
        119.0625)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Color = clWhite
    ResetAfterPrint = False
    Transparent = False
    WordWrap = True
    Expression = 'COUNT'
    FontSize = 10
end
object QRShape3: TQRShape
    Left = 0
    Top = 40
    Width = 713
    Height = 9
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        23.8125
        0
        105.833333333333
        1886.47916666667)
    Shape = qrsHorLine
end
end
object PageFooterBand1: TQRBand
    Left = 38
    Top = 345

    Width = 718
    Height = 48
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
```



```
AlignToBottom = False

Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    127
    1899.708333333333)
BandType = rbPageFooter
object QRLabel2: TQRLabel
    Left = 304
    Top = 16
    Width = 41
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        804.333333333333
        42.3333333333333
        108.479166666667)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Caption = 'Página'
    Color = clWhite
    Transparent = False
    WordWrap = True
    FontSize = 10
end
object QRSysData3: TQRSysData
    Left = 352
    Top = 16
    Width = 46
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        931.333333333333
        42.3333333333333
        121.708333333333)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    Color = clWhite
    Data = qrsPageNumber
    Transparent = False
    FontSize = 10
end
```

```
    end  
    end  
end
```

C.10. Formulario finformes.

Archivo “informes.cpp”

```
//-----  
  
#include <vcl.h>  
#pragma hdrstop  
  
#include "informes.h"  
#include "datosBBDD.h"  
//-----  
#pragma package(smart_init)  
#pragma resource "*.dfm"  
Tfinformes *finformes;  
//-----  
__fastcall Tfinformes::Tfinformes(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----
```

Archivo “informes.h”

```
//-----  
  
#ifndef informesH  
#define informesH  
//-----  
#include <Classes.hpp>  
#include <Controls.hpp>  
#include <StdCtrls.hpp>  
#include <Forms.hpp>  
#include <ExtCtrls.hpp>  
#include <Qrctrls.hpp>  
#include <QuickRpt.hpp>  
//-----  
class Tfinformes : public TForm  
{  
    __published: // IDE-managed Components  
        TQuickRep *QuickRep1;  
        TQRBand *QRBand1;  
};
```

```
TQRBand *QRBand3;
TQRDBText *QRDBText1;
TQRDBText *QRDBText2;
TQRDBText *QRDBText3;
TQRBand *QRBand4;
TQRLabel *QRLabel1;
TQRSysData *QRSysData3;
TQRBand *QRBand5;
TQRShape *QRShape1;
TQRLabel *QRLabel2;
TQRExpr *QRExpr1;
TQRDBText *QRDBText4;
TQRDBText *QRDBText5;
TQRDBText *QRDBText6;
TQRDBText *QRDBText7;
TQRDBText *QRDBText8;
TQRDBText *QRDBText9;
TQRDBText *QRDBText10;
TQRDBText *QRDBText11;
TQRDBText *QRDBText12;
TQRShape *QRShape3;
TQRLabel *QRLabel3;
TQRLabel *QRLabel4;
TQRLabel *QRLabel5;
TQRLabel *QRLabel6;
TQRLabel *QRLabel7;
TQRLabel *QRLabel8;
TQRLabel *QRLabel9;
TQRLabel *QRLabel10;
TQRLabel *QRLabel11;
TQRSysData *QRSysData4;
TQRSysData *QRSysData1;
TQRShape *QRShape2;
private: // User declarations
public:  // User declarations
    __fastcall Tfinformes(TComponent* Owner);
};
//-----
extern PACKAGE Tfinformes *finformes;
//-----
#endif
```

Archivo “informes.dfm”

```
object finformes: Tfinformes
  Left = 226
  Top = 169
  Width = 806
  Height = 597
  Caption = 'SIGPYME: Informes'
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
```

```
Font.Name = 'MS Sans Serif'

Font.Style = []
OldCreateOrder = False
Scaled = False
PixelsPerInch = 96
TextHeight = 13
object QuickRep1: TQuickRep
  Left = -24
  Top = -24
  Width = 794
  Height = 1123
  Frame.Color = clBlack
  Frame.DrawTop = False

  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  DataSet = DataModuleBBDD.TablaClientes
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -13
  Font.Name = 'Arial'
  Font.Style = []
  Functions.Strings = (
    'PAGENUMBER'
    'COLUMNNUMBER'
    'REPORTTITLE')
  Functions.DATA = (
    '0'
    '0'
    #39#39)
  Options = [FirstPageHeader, LastPageFooter]
  Page.Columns = 1
  Page.Orientation = poPortrait
  Page.PaperSize = A4
  Page.Values = (
    100
    2970
    100
    2100
    100
    100
    0)
  PrinterSettings.Copies = 1
  PrinterSettings.Duplex = False
  PrinterSettings.FirstPage = 0
  PrinterSettings.LastPage = 0
  PrinterSettings.OutputBin = Auto
  PrintIfEmpty = True
  ReportTitle = 'Listado de clientes'
  SnapToGrid = True
  Units = MM
  Zoom = 100
object QRBand1: TQRBand
  Left = 38
  Top = 38
```

```
Width = 718
Height = 91
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    240.770833333333
    1899.70833333333)
BandType = rbPageHeader
object QRSysData4: TQRSysData
    Left = 276
    Top = 16
    Width = 165
    Height = 33
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        87.3125
        730.25
        42.3333333333333
        436.5625)
    Alignment = taCenter
    AlignToBand = True
    AutoSize = True
    Color = clWhite
    Data = qrsReportTitle
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clWindowText
    Font.Height = -27
    Font.Name = 'Arial'
    Font.Style = [fsBold]
    ParentFont = False
    Transparent = False
    FontSize = 20
end
object QRSysData1: TQRSysData
    Left = 472
    Top = 56
    Width = 36
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        1248.83333333333)
```

```
148.166666666667
95.25)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
Color = clWhite
Data = qrsDate
Transparent = False
FontSize = 10
end
object QRShape2: TQRShape
Left = 0
Top = 80
Width = 721
Height = 9
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
23.8125
0
211.666666666667
1907.64583333333)
Shape = qrsHorLine
end
end
object QRBand3: TQRBand
Left = 38
Top = 129
Width = 718
Height = 184
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
486.833333333333
1899.70833333333)
BandType = rbDetail
object QRDBText1: TQRDBText
Left = 48
Top = 8
Width = 119
Height = 23
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
```

```
60.8541666666667
127
21.1666666666667
314.854166666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Clasificacion1'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -19
Font.Name = 'Arial'
Font.Style = []
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 14
end
object QRDBText2: TQRDBText
Left = 256
Top = 8
Width = 100
Height = 19
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
50.2708333333333
677.333333333333
21.1666666666667
264.583333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Clasificacion2'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -16
Font.Name = 'Arial'
Font.Style = []
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 12
end
object QRDBText3: TQRDBText
Left = 456
Top = 8
Width = 89
```

```
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  1206.5
  21.16666666666667
  235.4791666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Clasificacion3'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -13
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText4: TQRDBText
Left = 72
Top = 56
Width = 46
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  190.5
  148.1666666666667
  121.7083333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Nombre'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText5: TQRDBText
Left = 224
Top = 56
```



```
Width = 54
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  592.6666666666667
  148.1666666666667
  142.875)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Apellidos'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText6: TQRDBText
Left = 400
Top = 56
Width = 25
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  1058.333333333333
  148.1666666666667
  66.14583333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Tfno'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText7: TQRDBText
Left = 528
Top = 56
Width = 34
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
```

```
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    1397
    148.1666666666667
    89.95833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Email'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText8: TQRDBText
Left = 80
Top = 88
Width = 54
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    211.6666666666667
    232.8333333333333
    142.875)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Domicilio'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText9: TQRDBText
Left = 280
Top = 88
Width = 17
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    740.8333333333333
```

```
232.8333333333333
44.97916666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Cp'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText10: TQRDBText
Left = 392
Top = 88
Width = 56
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.97916666666667
1037.166666666667
232.8333333333333
148.1666666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Localidad'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText11: TQRDBText
Left = 544
Top = 88
Width = 53
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.97916666666667
1439.333333333333
232.8333333333333
140.2291666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
```

```
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Provincia'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText12: TQRDBText
Left = 96
Top = 120
Width = 74
Height = 33
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
87.3125
254
317.5
195.791666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaClientes
DataField = 'Comentarios'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRShape3: TQRShape
Left = 0
Top = 168
Width = 721
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.9791666666667
0
444.5
1907.64583333333)
Pen.Style = psDash
Shape = qrsHorLine
end
object QRLabel3: TQRLabel
Left = 16
Top = 56
Width = 50
Height = 17
```

```
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    42.33333333333333
    148.16666666666667
    132.29166666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Nombre:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel4: TQRLabel
Left = 160
Top = 56
Width = 58
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
    423.3333333333333
    148.16666666666667
    153.4583333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Apellidos:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel5: TQRLabel
Left = 344
Top = 56
Width = 53
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.97916666666667
```

```
910.166666666667
148.166666666667
140.229166666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Teléfono:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel6: TQRLabel
Left = 480
Top = 56
Width = 42
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.979166666667
1270
148.166666666667
111.125)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'E-mail:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel7: TQRLabel
Left = 16
Top = 88
Width = 58
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.979166666667
42.333333333333
232.833333333333
153.458333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
```

```
Caption = 'Domicilio:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRLabel8: TQRLabel
  Left = 256
  Top = 88
  Width = 23
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.9791666666667
    677.333333333333
    232.833333333333
    60.8541666666667)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'CP:'
  Color = clWhite
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRLabel9: TQRLabel
  Left = 328
  Top = 88
  Width = 60
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.9791666666667
    867.833333333334
    232.833333333333
    158.75)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'Localidad:'
  Color = clWhite
  Transparent = False

  WordWrap = True
  FontSize = 10
end
```

```
object QRLabel10: TQRLabel
  Left = 480
  Top = 88
  Width = 57
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    1270
    232.8333333333333
    150.8125)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'Provincia:'
  Color = clWhite
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRLabel11: TQRLabel
  Left = 16
  Top = 120
  Width = 78
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    42.33333333333333
    317.5
    206.375)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Caption = 'Comentarios:'
  Color = clWhite
  Transparent = False
  WordWrap = True
  FontSize = 10
end
object QRBand4: TQRBand
  Left = 38
  Top = 417
  Width = 718
  Height = 40
  Frame.Color = clBlack
```



```
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    105.833333333333
    1899.70833333333)
BandType = rbPageFooter
object QRLabel1: TQRLabel
    Left = 304
    Top = 16
    Width = 41
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        804.333333333333
        42.3333333333333
        108.479166666667)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Caption = 'Página'
    Color = clWhite
    Transparent = False
    WordWrap = True
    FontSize = 10
end
object QRSysData3: TQRSysData
    Left = 352
    Top = 16
    Width = 46
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        931.333333333334
        42.3333333333333
        121.708333333333)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    Color = clWhite
    Data = qrsPageNumber
```

```
Transparent = False
FontSize = 10
end
end
object QRBand5: TQRBand
Left = 38
Top = 313
Width = 718
Height = 104
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
    275.166666666667
    1899.70833333333)
BandType = rbSummary
object QRShape1: TQRShape
Left = -8
Top = 64
Width = 718
Height = 25
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    66.1458333333333
    -21.1666666666667
    169.333333333333
    1899.70833333333)
Shape = qrsHorLine
end
object QRLabel2: TQRLabel
Left = 192
Top = 40
Width = 146
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.9791666666667
    508
    105.833333333333
    386.291666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
```

```
AutoStretch = False
Caption = 'Número total de clientes:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRExp1: TQRExp
  Left = 352
  Top = 40
  Width = 45
  Height = 17
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.9791666666667
    931.333333333334
    105.833333333333
    119.0625)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  ResetAfterPrint = False
  Transparent = False
  WordWrap = True

  Expression = 'COUNT'
  FontSize = 10
end
end
end
end
```

C.11. Formulario finforme_citas.

Archivo “informe_citas.cpp”

```
//-----
#include <vcl.h>
#pragma hdrstop

#include "informes_citas.h"
#include "datosBBDD.h"
#include "consulta.h"
//-----
```

```
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfinformes_citas *finformes_citas;
//-----
__fastcall Tfinformes_citas::Tfinformes_citas(TComponent* Owner)
    : TForm(Owner)
{
}
//-----
void __fastcall Tfinformes_citas::FormActivate(TObject *Sender)
{
    DataModuleBBDD->TablaAgenda->Active = true;
    DataModuleBBDD->DatabaseAgenda->Connected = true;
}
//-----
```

Archivo “infome_citas.h”

```
//-----

#ifndef informes_citasH
#define informes_citasH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ExtCtrls.hpp>
#include <QuickRpt.hpp>
#include <Qrctrls.hpp>
//-----
class Tfinformes_citas : public TForm
{
__published: // IDE-managed Components
    TQuickRep *QuickRep1;
    TQRBand *QRBand1;
    TQRBand *DetailBand1;
    TQRBand *SummaryBand1;
    TQRBand *PageFooterBand1;
    TQRSysData *QRSysData1;
    TQRSysData *QRSysData2;
    TQRShape *QRShape1;
    TQRDBText *QRDBText1;
    TQRDBText *QRDBText2;
    TQRDBText *QRDBText3;
    TQRDBText *QRDBText4;
    TQRDBText *QRDBText5;
    TQRDBText *QRDBText6;
    TQRShape *QRShape2;
    TQRLabel *QRLabel1;
    TQRSysData *QRSysData3;
    TQRLabel *QRLabel2;
    TQRExpr *QRExpr1;
};
```

```
TQRLabel *QRLabel3;
TQRLabel *QRLabel4;
TQRLabel *QRLabel5;
TQRLabel *QRLabel6;
void __fastcall FormActivate(TObject *Sender);

private: // User declarations
public:  // User declarations
    __fastcall Tfinformes_citas(TComponent* Owner);
};
//-----
extern PACKAGE Tfinformes_citas *finformes_citas;
//-----
#endif
```

Archivo “informe_citas.dfm”

```
object finformes_citas: Tfinformes_citas
    Left = 185
    Top = 181
    Width = 828
    Height = 627
    Caption = 'finformes_citas'
    Color = clBtnFace
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clWindowText
    Font.Height = -11
    Font.Name = 'MS Sans Serif'
    Font.Style = []
    OldCreateOrder = False
    Scaled = False
    OnActivate = FormActivate
    PixelsPerInch = 96
    TextHeight = 13
    object QuickRep1: TQuickRep
        Left = 0
        Top = 0
        Width = 794
        Height = 1123
        Frame.Color = clBlack
        Frame.DrawTop = False
        Frame.DrawBottom = False
        Frame.DrawLeft = False
        Frame.DrawRight = False
        DataSet = DataModuleBBDD.TablaAgenda
        Font.Charset = DEFAULT_CHARSET
        Font.Color = clWindowText
        Font.Height = -13
        Font.Name = 'Arial'
        Font.Style = []
        Functions.Strings = (
            'PAGENUMBER'
            'COLUMNNUMBER'
```

```
'REPORTTITLE')
Functions.DATA = (
  '0'
  '0'
  #39#39)
Options = [FirstPageHeader, LastPageFooter]
Page.Columns = 1
Page.Orientation = poPortrait
Page.PaperSize = A4
Page.Values = (
  100
  2970
  100
  2100
  100
  100
  0)
PrinterSettings.Copies = 1
PrinterSettings.Duplex = False
PrinterSettings.FirstPage = 0
PrinterSettings.LastPage = 0
PrinterSettings.OutputBin = Auto
PrintIfEmpty = True
ReportTitle = 'Listado de todas las citas'
SnapToGrid = True
Units = MM
Zoom = 100
object QRBand1: TQRBand
  Left = 38
  Top = 38
  Width = 718
  Height = 91
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  AlignToBottom = False
  Color = clWhite
  ForceNewColumn = False
  ForceNewPage = False
  Size.Values = (
    240.770833333333
    1899.70833333333)
BandType = rbPageHeader
object QRSysData1: TQRSysData
  Left = 276
  Top = 24
  Width = 165
  Height = 33
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    87.3125
```

```
730.25
63.5
436.5625)
Alignment = taCenter
AlignToBand = True
AutoSize = True
Color = clWhite
Data = qrsReportTitle
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -27
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
FontSize = 20
end
object QRSysData2: TQRSysData
Left = 457
Top = 57
Width = 36
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
44.9791666666667
1209.14583333333
150.8125
95.25)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
Color = clWhite
Data = qrsDate
Transparent = False
FontSize = 10
end
object QRShape1: TQRShape
Left = 0
Top = 80
Width = 721
Height = 9
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
23.8125
0
211.666666666667
1907.64583333333)
Shape = qrsHorLine
end
```

```
end
object DetailBand1: TQRBand
  Left = 38
  Top = 129
  Width = 718
  Height = 128
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  AlignToBottom = False
  Color = clWhite
  ForceNewColumn = False
  ForceNewPage = False
  Size.Values = (
    338.666666666667
    1899.70833333333)
  BandType = rbDetail
object QRDBText1: TQRDBText
  Left = 240
  Top = 16
  Width = 54
  Height = 23
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    60.8541666666667
    635
    42.3333333333333
    142.875)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  DataSet = DataModuleBBDD.TablaAgenda
  DataField = 'Fecha'
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -19
  Font.Name = 'Arial'
  Font.Style = []
  ParentFont = False
  Transparent = False
  WordWrap = True
  FontSize = 14
end
object QRDBText2: TQRDBText
  Left = 448
  Top = 16
  Width = 38
  Height = 20
  Frame.Color = clBlack
```



```
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    52.9166666666667
    1185.333333333333

    42.3333333333333
    100.5416666666667)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaAgenda
DataField = 'Hora'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -16
Font.Name = 'Arial'
Font.Style = [fsBold]
ParentFont = False
Transparent = False
WordWrap = True
FontSize = 12
end
object QRDBText3: TQRDBText
    Left = 200
    Top = 48
    Width = 72
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        529.166666666667
        127
        190.5)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Color = clWhite
    DataSet = DataModuleBBDD.TablaAgenda
    DataField = 'Periodicidad'
    Transparent = False
    WordWrap = True
    FontSize = 10
end
object QRDBText4: TQRDBText
    Left = 360
    Top = 48
    Width = 48
```

```
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  952.5
  127
  127)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaAgenda
DataField = 'Intervalo'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText5: TQRDBText
Left = 504
Top = 48
Width = 52
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  1333.5
  127
  137.5833333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaAgenda
DataField = 'Cantidad'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRDBText6: TQRDBText
Left = 104
Top = 72
Width = 24
Height = 33
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
```

```
Frame.DrawRight = False
Size.Values = (
    87.3125
    275.1666666666667
    190.5
    63.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Color = clWhite
DataSet = DataModuleBBDD.TablaAgenda
DataField = 'Cita'
Transparent = False
WordWrap = True
FontSize = 10
end
object QRShape2: TQRShape
Left = 0
Top = 104
Width = 721
Height = 9
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    23.8125
    0
    275.1666666666667
    1907.645833333333)
Pen.Style = psDash
Shape = qrsHorLine
end
object QRLabel3: TQRLabel
Left = 128
Top = 48
Width = 72
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
    44.9791666666667
    338.6666666666667
    127
    190.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Periodicidad'
Color = clWhite
Transparent = False
```

```
    WordWrap = True
    FontSize = 10
end
object QLabel4: TLabel
    Left = 304
    Top = 48
    Width = 48
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        804.333333333333
        127
        127)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Caption = 'Intervalo'
    Color = clWhite
    Transparent = False
    WordWrap = True
    FontSize = 10
end
object QLabel5: TLabel
    Left = 440
    Top = 48
    Width = 52
    Height = 17
    Frame.Color = clBlack
    Frame.DrawTop = False
    Frame.DrawBottom = False
    Frame.DrawLeft = False
    Frame.DrawRight = False
    Size.Values = (
        44.9791666666667
        1164.16666666667
        127
        137.583333333333)
    Alignment = taLeftJustify
    AlignToBand = False
    AutoSize = True
    AutoStretch = False
    Caption = 'Cantidad'
    Color = clWhite
    Transparent = False
    WordWrap = True
    FontSize = 10
end
object QLabel6: TLabel
    Left = 40
    Top = 72
    Width = 24
```

```
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  105.8333333333333
  190.5
  63.5)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Cita'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
end
object SummaryBand1: TQRBand
Left = 38
Top = 257
Width = 718
Height = 40
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
AlignToBottom = False
Color = clWhite
ForceNewColumn = False
ForceNewPage = False
Size.Values = (
  105.8333333333333
  1899.708333333333)
BandType = rbSummary
object QRLabel2: TQRLabel
Left = 232
Top = 16
Width = 129
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  613.8333333333333
  42.3333333333333
  341.3125)
Alignment = taLeftJustify
AlignToBand = False
```

```
AutoSize = True
AutoStretch = False
Caption = 'Numero total de citas:'
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRExpr1: TQRExpr
  Left = 368
  Top = 16
  Width = 45
  Height = 17
  Frame.Color = clBlack

  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  Size.Values = (
    44.97916666666667
    973.6666666666667
    42.33333333333333
    119.0625)
  Alignment = taLeftJustify
  AlignToBand = False
  AutoSize = True
  AutoStretch = False
  Color = clWhite
  ResetAfterPrint = False
  Transparent = False
  WordWrap = True
  Expression = 'COUNT'
  FontSize = 10
end
end
object PageFooterBand1: TQRBand
  Left = 38
  Top = 297
  Width = 718
  Height = 40
  Frame.Color = clBlack
  Frame.DrawTop = False
  Frame.DrawBottom = False
  Frame.DrawLeft = False
  Frame.DrawRight = False
  AlignToBottom = False
  Color = clWhite
  ForceNewColumn = False
  ForceNewPage = False
  Size.Values = (
    105.8333333333333
    1899.708333333333)
  BandType = rbPageFooter
  object QRLabel1: TQRLabel
    Left = 280
    Top = 8
```

```
Width = 49
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  740.8333333333333
  21.16666666666667
  129.6458333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
AutoStretch = False
Caption = 'Pagina: '
Color = clWhite
Transparent = False
WordWrap = True
FontSize = 10
end
object QRSysData3: TQRSysData
Left = 344
Top = 8
Width = 46
Height = 17
Frame.Color = clBlack
Frame.DrawTop = False
Frame.DrawBottom = False
Frame.DrawLeft = False
Frame.DrawRight = False
Size.Values = (
  44.97916666666667
  910.1666666666667
  21.16666666666667
  121.7083333333333)
Alignment = taLeftJustify
AlignToBand = False
AutoSize = True
Color = clWhite
Data = qrsPageNumber
Transparent = False
FontSize = 10
end
end
end
end
```

C.12. Formulario fmodificar_cita.

Archivo “modificar_cita.cpp”

```
//-----  
  
#include <vcl.h>  
#pragma hdrstop  
  
#include "modificar_cita.h"  
//#include "agenda.h"  
#include "principal.h"  
#include "datosBBDD.h"  
//-----  
#pragma package(smart_init)  
#pragma resource "*.dfm"  
Tfmodificar_cita *fmodificar_cita;  
//-----  
__fastcall Tfmodificar_cita::Tfmodificar_cita(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----  
  
void __fastcall Tfmodificar_cita::BotonAceptarCambiosClick(TObject *Sender)  
{  
    DataModuleBBDD->TablaAgenda->Active = true ;  
    DataModuleBBDD->TablaAgenda->Refresh();  
    DataModuleBBDD->TablaAgenda->Edit();  
    DataModuleBBDD->TablaAgenda->FieldByName("Fecha")->Value = \  
                                                DateTimePicker1->Date;  
    DataModuleBBDD->TablaAgenda->FieldByName("Hora")->Value = StrToTime \  
                                                                (EditHora->Text);  
    if (CheckPeriodicidad->Checked)  
    {  
        DataModuleBBDD->TablaAgenda->FieldByName("Periodicidad")->Value = \  
                                                                True;  
        DataModuleBBDD->TablaAgenda->FieldByName("IDIntervalo")->Value = \  
                                                                (ComboBoxIntervalo->ItemIndex) + 1;  
        DataModuleBBDD->TablaAgenda->FieldByName("Cantidad")->Value = \  
                                                                StrToInt(EditCantidad->Text);  
    }  
    else  
    {  
        DataModuleBBDD->TablaAgenda->FieldByName("Periodicidad")->Value = \  
                                                                False;  
        DataModuleBBDD->TablaAgenda->FieldByName("IDIntervalo")->Value = 1;  
        DataModuleBBDD->TablaAgenda->FieldByName("Cantidad")->Value = 0;  
    }  
    DataModuleBBDD->TablaAgenda->FieldByName("Cita")->Value = MemoCita \  
                                                                ->Text;  
  
    //Se hace el post para actualizar la tabla agenda  
    DataModuleBBDD->TablaAgenda->Post();  
    DataModuleBBDD->TablaAgenda->Refresh();  
    fmodificar_cita->Hide();  
}
```



```
//-----  
  
void __fastcall Tformmodificar_cita::CheckPeriodicidadClick(TObject *Sender)  
{  
    if (CheckPeriodicidad->Checked)//Si el checkbox de periodicidad está activado  
    {  
        //Está activado  
        LabelIntervalo->Enabled = true;  
        ComboBoxIntervalo->Enabled = true;  
        LabelCantidad->Enabled = true;  
        EditCantidad->Enabled = true;  
    }  
    else  
    {  
        //Está desactivado  
        LabelIntervalo->Enabled = false;  
        ComboBoxIntervalo->Enabled = false;  
        LabelCantidad->Enabled = false;  
        EditCantidad->Enabled = false;  
    }  
}  
  
//-----  
void __fastcall Tformmodificar_cita::FormActivate(TObject *Sender)  
{  
    //Preparación del combo del intervalo  
    DataModuleBBDD->TablaIntervalo->First();  
    ComboBoxIntervalo->Items->Clear();  
  
    for (int i=0 ; i < DataModuleBBDD->TablaIntervalo->RecordCount ; i++)  
    {  
        ComboBoxIntervalo->Items->Add( DataModuleBBDD->TablaIntervalo \\  
                                         ->FieldByName("Intervalo")->Value );  
        DataModuleBBDD->TablaIntervalo->Next();  
    }  
    //Fin de la preparación del combo  
  
    DateTimePicker1->Date = DataModuleBBDD->TablaAgenda-> \\  
                                         FieldByName("Fecha") ->Value;  
    EditHora->Text = DataModuleBBDD->TablaAgenda->FieldByName("Hora")->Value;  
    if ( DataModuleBBDD->TablaAgenda->FieldByName("Periodicidad")-> \\  
                                         AsBoolean == True)  
    {  
        CheckPeriodicidad->Checked = True;  
        ComboBoxIntervalo->ItemIndex = (DataModuleBBDD->TablaAgenda-> \\  
                                         FieldByName("IDIntervalo")->AsInteger - 1 );  
        //El -1 de la línea anterior se debe a que el índice empieza por cero, y es una  
        //unidad menor que el ID de Intervalo  
        FieldByName("IDIntervalo")->Value;  
        EditCantidad->Text = DataModuleBBDD->TablaAgenda-> \\  
                                         FieldByName("Cantidad")->Value;  
  
        //Habilitamos controles  
        LabelIntervalo->Enabled = true;  
        ComboBoxIntervalo->Enabled = true;  
        LabelCantidad->Enabled = true;  
        EditCantidad->Enabled = true;  
    }  
}
```

```
else
{
    CheckPeriodicidad->Checked = False;
    ComboBoxIntervalo->ItemIndex = 0;
    EditCantidad->Text = 0;
    //Desactivamos controles
    LabelIntervalo->Enabled = false;
    ComboBoxIntervalo->Enabled = false;
    LabelCantidad->Enabled = false;
    EditCantidad->Enabled = false;
}

MemoCita->Text =DataModuleBBDD->TablaAgenda->FieldByName("Cita")->Value;
}
//-----

void __fastcall Tformodificar_cita::Button1Click(TObject *Sender)
{
    fmodificar_cita->Hide();
}
//-----

void __fastcall Tformodificar_cita::FormDbClick(TObject *Sender)
{
    //ShowMessage(DBLookupComboBox1->KeyField);
}
//-----
```

Archivo “modificar_cita.h”

```
//-----

#ifndef modificar_citaH
#define modificar_citaH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <DBCtrls.hpp>
#include <ComCtrls.hpp>
//-----
class Tformodificar_cita : public TForm
{
__published: // IDE-managed Components
    TLabel *Label2;
    TLabel *Label3;
    TLabel *LabelIntervalo;
    TLabel *LabelCantidad;
    TLabel *Label7;
    TEdit *EditHora;
    TEdit *EditCantidad;
    TMemo *MemoCita;
```

```
TButton *BotonAceptarCambios;
TCheckBox *CheckPeriodicidad;
TButton *Button1;
TComboBox *ComboBoxIntervalo;
TDateTimePicker *DateTimePicker1;
void __fastcall BotonAceptarCambiosClick(TObject *Sender);
void __fastcall CheckPeriodicidadClick(TObject *Sender);
void __fastcall FormActivate(TObject *Sender);
void __fastcall Button1Click(TObject *Sender);
void __fastcall FormDbClick(TObject *Sender);
private: // User declarations
public: // User declarations
    __fastcall Tfmmodificar_cita(TComponent* Owner);
};
//-----
extern PACKAGE Tfmmodificar_cita *fmmodificar_cita;
//-----
#endif
```

Archivo “modificar_cita.dfm”

```
object fmodificar_cita: Tfmmodificar_cita
    Left = 282
    Top = 255
    Width = 599
    Height = 375
    Caption = 'SIGPYME: Modificar cita'
    Color = clBtnFace
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clWindowText
    Font.Height = -11
    Font.Name = 'MS Sans Serif'
    Font.Style = []
    OldCreateOrder = False
    OnActivate = FormActivate
    OnDbClick = FormDbClick
    PixelsPerInch = 96
    TextHeight = 13
    object Label2: TLabel
        Left = 24
        Top = 56
        Width = 97
        Height = 13
        Caption = 'Fecha (DD/MM/AA)'
    end
    object Label3: TLabel
        Left = 24
        Top = 96
        Width = 69
        Height = 13
        Caption = 'Hora (HH:MM)'
    end
    object LabelIntervalo: TLabel
        Left = 328
        Top = 96
```

```
Width = 41
Height = 13
Caption = 'Intervalo'
end
object LabelCantidad: TLabel
Left = 328
Top = 144
Width = 42
Height = 13
Caption = 'Cantidad'
end
object Label7: TLabel
Left = 112
Top = 184
Width = 18
Height = 13
Caption = 'Cita'
end
object EditHora: TEdit
Left = 136
Top = 88
Width = 121
Height = 21
TabOrder = 1
end
object EditCantidad: TEdit
Left = 416
Top = 136
Width = 121
Height = 21
TabOrder = 4
Text = '0'
end
object MemoCita: TMemo
Left = 160
Top = 184
Width = 265
Height = 57
TabOrder = 5
end
object BotonAceptarCambios: TButton
Left = 472
Top = 280
Width = 89
Height = 25
Caption = 'Aceptar Cambios'
TabOrder = 6
OnClick = BotonAceptarCambiosClick
end
object CheckPeriodicidad: TCheckBox
Left = 324
Top = 48
Width = 101
Height = 17
Alignment = taLeftJustify
Caption = 'Periodicidad'
TabOrder = 2
```

```
OnClick = CheckPeriodicidadClick
end
object Button1: TButton
Left = 376
Top = 280
Width = 75
Height = 25
Caption = '&Cancelar'
TabOrder = 7
OnClick = Button1Click
end
object ComboBoxIntervalo: TComboBox
Left = 416
Top = 88
Width = 121
Height = 21
ItemHeight = 13
TabOrder = 3
end
object DateTimePicker1: TDateTimePicker
Left = 136
Top = 48
Width = 89
Height = 21
CalAlignment = dtaLeft
Date = 37479.9370670139
Time = 37479.9370670139
DateFormat = dfShort
DateMode = dmComboBox
Kind = dtkDate
ParseInput = False
TabOrder = 0
end
end
```

C.13. Formulario `fmodificar_tabla_clas`.

Archivo “`modificar_tabla_clas.cpp`”

```
//-----
#include <vcl.h>
#pragma hdrstop

#include "modificar_tabla_clas.h"
//#include "clientes.h"
#include "principal.h"
#include "datosBBDD.h"
//-----
#pragma package(smart_init)
#pragma link "Navbtn"
```

```
#pragma resource "*.dfm"
Tfmodificar_tabla_clas *fmodificar_tabla_clas;
//-----
__fastcall Tfmodificar_tabla_clas::Tfmodificar_tabla_clas(TComponent* Owner)
    : TForm(Owner)
{
}
//-----
void __fastcall Tfmodificar_tabla_clas::Button1Click(TObject *Sender)
{
    Hide();
}
//-----
```

Archivo “modificar_tabla_clas.h”

```
//-----

#ifndef modificar_tabla_clasH
#define modificar_tabla_clasH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <Db.hpp>
#include <DBTables.hpp>
#include <DBGrids.hpp>
#include <Grids.hpp>
#include <DBCtrls.hpp>
#include <ExtCtrls.hpp>
#include "Navbtn.hpp"
#include <Buttons.hpp>
//-----
class Tfmodificar_tabla_clas : public TForm
{
__published: // IDE-managed Components
    TDBGrid *DBGrid1;
    TButton *Button1;
    TDBNavigationButton *dbNavBtnFirst;
    TDBNavigationButton *dbNavBtnPrior;
    TDBNavigationButton *dbNavBtnNext;
    TDBNavigationButton *dbNavBtnLast;
    TDBNavigationButton *dbNavBtnCancel;
    TDBNavigationButton *dbNavBtnDelete;
    TDBNavigationButton *dbNavBtnEdit;
    TDBNavigationButton *dbNavBtnNew;
    TDBNavigationButton *dbNavBtnSave;
    TDBNavigationButton *dbNavBtnRefresh;
    void __fastcall Button1Click(TObject *Sender);
private: // User declarations
public: // User declarations
    __fastcall Tfmodificar_tabla_clas(TComponent* Owner);
};
```

```
//-----  
extern PACKAGE Tfmodificar_tabla_clas *fmodificar_tabla_clas;  
//-----  
#endif
```

Archivo “modificar_tabla_clas.dfm”

```
object fmodificar_tabla_clas: Tfmodificar_tabla_clas  
  Left = 275  
  Top = 261  
  Width = 513  
  Height = 279  
  Caption = 'SIGPYME: Modificar Tabla de clasificación'  
  Color = clBtnFace  
  Font.Charset = DEFAULT_CHARSET  
  Font.Color = clWindowText  
  Font.Height = -11  
  Font.Name = 'MS Sans Serif'  
  Font.Style = []  
  OldCreateOrder = False  
  PixelsPerInch = 96  
  TextHeight = 13  
  object DBGrid1: TDBGrid  
    Left = 88  
    Top = 40  
    Width = 320  
    Height = 120  
    DataSource = DataModuleBBDD.DataSourceTablaclas  
    TabOrder = 0  
    TitleFont.Charset = DEFAULT_CHARSET  
    TitleFont.Color = clWindowText  
    TitleFont.Height = -11  
    TitleFont.Name = 'MS Sans Serif'  
    TitleFont.Style = []  
  end  
  object Button1: TButton  
    Left = 392  
    Top = 208  
    Width = 75  
    Height = 25  
    Caption = '&Aceptar'  
    TabOrder = 1  
   OnClick = Button1Click  
  end  
  object dbNavBtnFirst: TDBNavigationButton  
    Left = 32  
    Top = 208  
    Width = 75  
    Height = 25  
    Caption = '&Primero'  
    TabOrder = 7  
    NumGlyphs = 2  
    DataButtonType = nbFirst
```

```
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drBOF, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnPrior: TDBNavigationButton
Left = 104
Top = 208
Width = 75
Height = 25
Caption = 'An&terior'
TabOrder = 8
NumGlyphs = 2
DataButtonType = nbPrior
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drBOF, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnNext: TDBNavigationButton
Left = 176
Top = 208
Width = 75
Height = 25
Caption = '&Siguiente'
TabOrder = 9
NumGlyphs = 2
DataButtonType = nbNext
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drEOF, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnLast: TDBNavigationButton
Left = 248
Top = 208
Width = 75
Height = 25
Caption = '&Último'
TabOrder = 10
NumGlyphs = 2
DataButtonType = nbLast
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drEOF, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnCancel: TDBNavigationButton
Left = 392
Top = 168
Width = 75
Height = 25
Caption = '&Cancelar'
TabOrder = 6
NumGlyphs = 2
DataButtonType = nbCancel
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drNotEditing]
RuntimeEnabled = True
end
object dbNavBtnDelete: TDBNavigationButton
```



```
Left = 104
Top = 168
Width = 75
Height = 25
Caption = '&Borrar'
TabOrder = 2
NumGlyphs = 2
DataButtonType = nbDelete
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drReadOnly, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnEdit: TDBNavigationButton
Left = 176
Top = 168
Width = 75
Height = 25
Caption = '&Editar'
TabOrder = 3
NumGlyphs = 2
DataButtonType = nbEdit
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drReadOnly, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnNew: TDBNavigationButton
Left = 248
Top = 168
Width = 75
Height = 25
Caption = '&Nuevo'
TabOrder = 4
NumGlyphs = 2
DataButtonType = nbInsert
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drReadOnly, drEditing]
RuntimeEnabled = True
end
object dbNavBtnSave: TDBNavigationButton
Left = 320
Top = 168
Width = 75
Height = 25
Caption = '&Guardar'
TabOrder = 5
NumGlyphs = 2
DataButtonType = nbPost
DataSource = DataModuleBBDD.DataSourceTablaclas
DisableReasons = [drNotEditing]
RuntimeEnabled = True
end
object dbNavBtnRefresh: TDBNavigationButton
Left = 32
Top = 168
Width = 75
Height = 25
Caption = '&Refrescar'
```

```
    TabOrder = 1
    NumGlyphs = 2
    DataButtonType = nbRefresh
    DataSource = DataModuleBBDD.DataSourceTablaclas
    DisableReasons = [drEditing]
    RuntimeEnabled = True
end
end
```

C.14. Formulario fnavegar_clientes.

Archivo “navegar_clientes.cpp”

```
//-----

#include <vcl.h>
#include <dstring.h>
#include <stdio.h>
#include <math.h>
#pragma hdrstop

#include "navegar_clientes.h"
#include "principal.h"
#include "datosBBDD.h"
// #include "configuracion.h"

//-----
#pragma package(smart_init)
#pragma link "Navbtn"
#pragma resource "*.dfm"
Tfnavegar_clientes *fnavegar_clientes;
int colores[30];

//-----
__fastcall Tfnavegar_clientes::Tfnavegar_clientes(TComponent* Owner)
    : TForm(Owner)
{
}
//-----
void __fastcall Tfnavegar_clientes::BotonSalirClick(TObject *Sender)
{
    Hide();
}
//-----
void __fastcall Tfnavegar_clientes::FormActivate(TObject *Sender)
{
    DataModuleBBDD->TablaClas1->Active = true;
    DataModuleBBDD->TablaClas1->Refresh();
    DataModuleBBDD->TablaClas2->Active = true;
    DataModuleBBDD->TablaClas2->Refresh();
    DataModuleBBDD->TablaClas3->Active = true;
```

```
DataModuleBBDD->TablaClas3->Refresh();
DataModuleBBDD->TablaProv->Active = true;
DataModuleBBDD->TablaProv->Refresh();
DataModuleBBDD->DatabaseClientes->Connected = true;
DataModuleBBDD->TablaClientes->Active = true;

if ( DataModuleBBDD->TablaClientes->RecordCount )
{
int total_filas_tablaclas1 = DataModuleBBDD->TablaClas1->RecordCount;
int total_filas_tablaclas2 = DataModuleBBDD->TablaClas2->RecordCount;
int total_filas_tablaclas3 = DataModuleBBDD->TablaClas3->RecordCount;
int filas_tablaclas2[5][2], filas_tablaclas3[5][2];
    // En la matriz filas_tablaclas2 se guarda lo siguiente en cada columna:
    // 0 : Un IDClas1
    // 1 : Numero de registros de TablaClas2 con ese IDClas1
    // Es como un resumen de TablaClas2
AnsiString CadenaSQL;
int j=0; //índice para recorrer filas_tablaclas2

// Empieza el bucle para rellenar filas_tablaclas2
DataModuleBBDD->TablaClas2->First();
filas_tablaclas2[j][0] = DataModuleBBDD->TablaClas2->FieldByName("IDClas1") \
                                                                    ->AsInteger;

filas_tablaclas2[j][1] = 0; filas_tablaclas2[j][1]++;
DataModuleBBDD->TablaClas2->Next();

for (int i=0 ; i < (total_filas_tablaclas2 - 1) ; i++)
{
    if ( DataModuleBBDD->TablaClas2->FieldByName("IDClas1")->Value ==
filas_tablaclas2[j][0] )
    {
        filas_tablaclas2[j][1]++;
    }
    else
    {
        j++;
        filas_tablaclas2[j][0] = DataModuleBBDD->TablaClas2-> \
                                                                    FieldByName("IDClas1")->Value;
        filas_tablaclas2[j][1] = 0; filas_tablaclas2[j][1]++;
    }
    DataModuleBBDD->TablaClas2->Next();
}

// Empieza el bucle para rellenar filas_tablaclas3
j=0;
DataModuleBBDD->TablaClas3->First();
//Antes de hacer esta línea hay q comprobar que la tabla no esté vacía.
filas_tablaclas3[j][0] = DataModuleBBDD->TablaClas3->FieldByName("IDClas2") \
                                                                    ->Value;

filas_tablaclas3[j][1] = 0; filas_tablaclas3[j][1]++;
DataModuleBBDD->TablaClas3->Next();

for (int i=0 ; i < (total_filas_tablaclas3 - 1) ; i++)
{
    if ( DataModuleBBDD->TablaClas3->FieldByName("IDClas2")->Value == \
                                                                    filas_tablaclas3[j][0] )
```

```

        {
            filas_tablaclas3[j][1]++;
        }

        else
        {
            j++;
            filas_tablaclas3[j][0] = DataModuleBBDD->TablaClas3 \
                                ->FieldByName("IDClas2")->Value;
            filas_tablaclas3[j][1] = 0; filas_tablaclas3[j][1]++;
        }
        DataModuleBBDD->TablaClas3->Next();
    }

    //Ahora hacemos la división de colores.
    //Empezamos por los correspondientes a la primera división:
    //Total de colores: FF FF FF (en hexadecimal)

    if (fprincipal->GOpcion3 == true )
    {
        //Calculo con la escala geometrica
        double total_colores_primera_division = 0xFFFFFF;
        double raiz = 1.0 / total_filas_tablaclas1;
        double division = pow ( total_colores_primera_division , raiz);

        for ( int i = 0; i < total_filas_tablaclas1 ;i++ )
            colores[i] = floor(pow( division , (i+1) ));
    }
    else
    {
        //Calculo con la escala aritmetica
        double total_colores_primera_division = 0xFFFFFF;
        double division = total_colores_primera_division /
                                ((double)total_filas_tablaclas1);

        for ( int i = 0; i < total_filas_tablaclas1 ;i++ )
            colores[i] = floor(division * (i+1));
    }

    //Le damos el color adecuado al panel
    Panel2->Color = colores[ (StrToInt(DataModuleBBDD->TablaClientes \
                                ->FieldByName("IDClas1")->AsInteger)) + 1] ;
}
//-----

void __fastcall Tfnavegar_clientes::DBNavigatorClientesClick(
    TObject *Sender, TNavigateBtn Button)
{
    //Le damos el color adecuado al panel
    Panel2->Color = colores[ (StrToInt(DataModuleBBDD->TablaClientes-
>FieldByName("IDClas1")->AsInteger)) + 1] ;
}
//-----

```

Archivo “navegar_clientes.h”

```
//-----  
  
#ifndef navegar_clientesH  
#define navegar_clientesH  
//-----  
#include <Classes.hpp>  
#include <Controls.hpp>  
#include <StdCtrls.hpp>  
#include <Forms.hpp>  
#include <ExtCtrls.hpp>  
#include <DBCtrls.hpp>  
#include <Mask.hpp>  
#include <Db.hpp>  
#include <DBTables.hpp>  
#include <DBGrids.hpp>  
#include <Grids.hpp>  
#include "Navbtn.hpp"  
#include <Buttons.hpp>  
//-----  
class Tfnavegar_clientes : public TForm  
{  
__published: // IDE-managed Components  
    TPanel *Panel1;  
    TLabel *LabelIDClas1;  
    TLabel *LabelIDClas2;  
    TLabel *LabelIDClas3;  
    TPanel *Panel2;  
    TDBEdit *DBEditNombre;  
    TDBEdit *DBEditApellidos;  
    TDBEdit *DBEditTfno;  
    TDBEdit *DBEditEmail;  
    TDBEdit *DBEditDomicilio;  
    TDBEdit *DBEditCp;  
    TDBEdit *DBEditLocalidad;  
    TLabel *LabelNombre;  
    TLabel *LabelApellidos;  
    TLabel *LabelTfno;  
    TLabel *LabelEmail;  
    TLabel *LabelDomicilio;  
    TLabel *LabelCp;  
    TLabel *LabelLocalidad;  
    TLabel *LabelProvincia;  
    TDBMemo *DBMemoComentarios;  
    TLabel *LabelComentarios;  
    TPanel *Panel3;  
    TDBLookupComboBox *DBLookupComboBox1;  
    TDBLookupComboBox *DBLookupComboBox2;  
    TDBLookupComboBox *DBLookupComboBox3;  
    TDBLookupComboBox *DBLookupComboBox4;  
    TDBNavigationButton *dbNavBtnSave;
```

```
TDBNavigationButton *dbNavBtnNew;
TDBNavigationButton *dbNavBtnEdit;
TDBNavigationButton *dbNavBtnDelete;
TDBNavigationButton *dbNavBtnRefresh;
TDBNavigationButton *dbNavBtnCancel;
TPanel *Panel4;
TDBNavigationButton *dbNavBtnLast;
TDBNavigationButton *dbNavBtnNext;
TDBNavigationButton *dbNavBtnPrior;
TDBNavigationButton *dbNavBtnFirst;
TLabel *Label1;
TButton *BotonSalir;
TLabel *Label2;
void __fastcall BotonSalirClick(TObject *Sender);
void __fastcall FormActivate(TObject *Sender);
void __fastcall Button1Click(TObject *Sender);
void __fastcall DBNavigatorClientesClick(TObject *Sender,
    TNavigateBtn Button);
private: // User declarations
public: // User declarations
    __fastcall Tfnavegar_clientes(TComponent* Owner);
};
//-----
extern PACKAGE Tfnavegar_clientes *fnavegar_clientes;
//-----
#endif
```

Archivo “navegar_clientes.dfm”

```
object fnavegar_clientes: Tfnavegar_clientes
  Left = 217
  Top = 129
  Width = 684
  Height = 545
  Caption = 'SIGPYME: Navegación entre clientes'
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
  Font.Name = 'MS Sans Serif'
  Font.Style = []
  OldCreateOrder = False
  OnActivate = FormActivate
  PixelsPerInch = 96
  TextHeight = 13
  object Panel1: TPanel
    Left = 8
    Top = 16
    Width = 649
    Height = 81
    TabOrder = 0
    object LabelIDClas1: TLabel
```

```
Left = 32
Top = 16
Width = 68
Height = 13
Caption = 'Clasificacion 1'
end
object LabelIDClas2: TLabel
Left = 256
Top = 16
Width = 68
Height = 13
Caption = 'Clasificacion 2'
end
object LabelIDClas3: TLabel
Left = 488
Top = 16
Width = 68
Height = 13
Caption = 'Clasificación 3'
end
object DBLookupComboBox1: TDBLookupComboBox
Left = 32
Top = 32
Width = 145
Height = 21
DataField = 'IDClas1'
DataSource = DataModuleBBDD.DataSourceClientes
KeyField = 'IDClas1'
ListField = 'Clas1'
ListSource = DataModuleBBDD.DataSourceClas1
TabOrder = 0
end
object DBLookupComboBox2: TDBLookupComboBox
Left = 256
Top = 32
Width = 145
Height = 21
DataField = 'IDClas2'
DataSource = DataModuleBBDD.DataSourceClientes
KeyField = 'IDClas2'
ListField = 'Clas2'
ListSource = DataModuleBBDD.DataSourceClas2
TabOrder = 1
end
object DBLookupComboBox3: TDBLookupComboBox
Left = 488
Top = 32
Width = 145
Height = 21
DataField = 'IDClas3'
DataSource = DataModuleBBDD.DataSourceClientes
KeyField = 'IDClas3'
ListField = 'Clas3'
ListSource = DataModuleBBDD.DataSourceClas3
TabOrder = 2
end
end
```

```
object Panel2: TPanel
  Left = 8
  Top = 112
  Width = 649
  Height = 249
  TabOrder = 1
  object LabelNombre: TLabel
    Left = 32
    Top = 8
    Width = 37
    Height = 13
    Caption = 'Nombre'
  end
  object LabelApellidos: TLabel
    Left = 192
    Top = 8
    Width = 42
    Height = 13
    Caption = 'Apellidos'
  end
  object LabelTfno: TLabel
    Left = 344
    Top = 8
    Width = 42
    Height = 13
    Caption = 'Teléfono'
  end
  object LabelEmail: TLabel
    Left = 488
    Top = 8
    Width = 90
    Height = 13
    Caption = 'Direccion de e-mail'
  end
  object LabelDomicilio: TLabel
    Left = 32
    Top = 80
    Width = 42
    Height = 13
    Caption = 'Domicilio'
  end
  object LabelCp: TLabel
    Left = 256
    Top = 80
    Width = 65
    Height = 13
    Caption = 'Código Postal'
  end
  object LabelLocalidad: TLabel
    Left = 344
    Top = 80
    Width = 46
    Height = 13
    Caption = 'Localidad'
  end
  object LabelProvincia: TLabel
```



```
Left = 488
Top = 80
Width = 44
Height = 13
Caption = 'Provincia'
end
object LabelComentarios: TLabel
Left = 32
Top = 152
Width = 58
Height = 13
Caption = 'Comentarios'
end
object DBEditNombre: TDBEdit
Left = 32
Top = 24
Width = 121
Height = 21
DataField = 'Nombre'
DataSource = DataModuleBBDD.DataSourceClientes
TabOrder = 0
end
object DBEditApellidos: TDBEdit
Left = 192
Top = 24
Width = 121
Height = 21
DataField = 'Apellidos'
DataSource = DataModuleBBDD.DataSourceClientes
TabOrder = 1
end
object DBEditTfno: TDBEdit
Left = 344
Top = 24
Width = 121
Height = 21
DataField = 'Tfno'
DataSource = DataModuleBBDD.DataSourceClientes
TabOrder = 2
end
object DBEditEmail: TDBEdit
Left = 488
Top = 24
Width = 121
Height = 21
DataField = 'Email'
DataSource = DataModuleBBDD.DataSourceClientes
TabOrder = 3
end
object DBEditDomicilio: TDBEdit
Left = 32
Top = 96
Width = 209
Height = 21
DataField = 'Domicilio'
DataSource = DataModuleBBDD.DataSourceClientes
TabOrder = 4
```

```
end
object DBEditCp: TDBEdit
  Left = 256
  Top = 96
  Width = 65
  Height = 21
  DataField = 'Cp'
  DataSource = DataModuleBBDD.DataSourceClientes
  TabOrder = 5
end
object DBEditLocalidad: TDBEdit
  Left = 344
  Top = 96
  Width = 121
  Height = 21
  DataField = 'Localidad'
  DataSource = DataModuleBBDD.DataSourceClientes
  TabOrder = 6
end
object DBMemoComentarios: TDBMemo
  Left = 32
  Top = 168
  Width = 577
  Height = 65
  DataField = 'Comentarios'
  DataSource = DataModuleBBDD.DataSourceClientes
  TabOrder = 8
end
object DBLookupComboBox4: TDBLookupComboBox
  Left = 488
  Top = 96
  Width = 121
  Height = 21
  DataField = 'IDProv'
  DataSource = DataModuleBBDD.DataSourceClientes
  DropDownRows = 25
  KeyField = 'IDProv'
  ListField = 'Provincia'
  ListSource = DataModuleBBDD.DataSourceProv
  TabOrder = 7
end
end
object Panel3: TPanel
  Left = 8
  Top = 368
  Width = 649
  Height = 57
  TabOrder = 2
  object Label2: TLabel
    Left = 16
    Top = 16
    Width = 52
    Height = 20
    Caption = 'Edición'
    Font.Charset = DEFAULT_CHARSET
    Font.Color = clWindowText
    Font.Height = -16
```

```
Font.Name = 'MS Sans Serif'
Font.Style = []
ParentFont = False
end
object dbNavBtnSave: TDBNavigationButton
Left = 470
Top = 16
Width = 75
Height = 25
Caption = '&Guardar'
TabOrder = 4
NumGlyphs = 2
DataButtonType = nbPost
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drNotEditing]
RuntimeEnabled = True
end
object dbNavBtnNew: TDBNavigationButton
Left = 376
Top = 16
Width = 75
Height = 25
Caption = '&Nuevo'
TabOrder = 3
NumGlyphs = 2
DataButtonType = nbInsert
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drReadonly, drEditing]
RuntimeEnabled = True
end
object dbNavBtnEdit: TDBNavigationButton
Left = 280
Top = 16
Width = 75
Height = 25
Caption = '&Editar'
TabOrder = 2
NumGlyphs = 2
DataButtonType = nbEdit
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drReadonly, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnDelete: TDBNavigationButton
Left = 192
Top = 16
Width = 75
Height = 25
Caption = '&Borrar'
TabOrder = 1
NumGlyphs = 2
DataButtonType = nbDelete
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drReadonly, drEditing, drEmpty]
RuntimeEnabled = True
end
object dbNavBtnRefresh: TDBNavigationButton
```

```
Left = 104
Top = 16
Width = 75
Height = 25
Caption = '&Refrescar'
TabOrder = 0
NumGlyphs = 2
DataButtonType = nbRefresh
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drEditing]
RuntimeEnabled = True
end
object dbNavBtnCancel: TDBNavigationButton
Left = 560
Top = 16
Width = 75
Height = 25
Caption = '&Cancelar'
TabOrder = 5
NumGlyphs = 2
DataButtonType = nbCancel
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drNotEditing]
RuntimeEnabled = True
end
end
object Panel4: TPanel
Left = 8
Top = 440
Width = 497
Height = 57
TabOrder = 3
object Label1: TLabel
Left = 16
Top = 16
Width = 83
Height = 20
Caption = 'Navegación'
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -16
Font.Name = 'MS Sans Serif'
Font.Style = []
ParentFont = False
end
object dbNavBtnLast: TDBNavigationButton
Left = 400
Top = 16
Width = 75
Height = 25
Caption = '&Último'
TabOrder = 3
NumGlyphs = 2
DataButtonType = nbLast
DataSource = DataModuleBBDD.DataSourceClientes
DisableReasons = [drEOF, drEditing, drEmpty]
RuntimeEnabled = True
```

```
end
object dbNavBtnNext: TDBNavigationButton
  Left = 312
  Top = 16
  Width = 75
  Height = 25
  Caption = '&Siguiente'
  TabOrder = 2
  NumGlyphs = 2
  DataButtonType = nbNext
  DataSource = DataModuleBBDD.DataSourceClientes
  DisableReasons = [drEOF, drEditing, drEmpty]
  RuntimeEnabled = True
end
object dbNavBtnPrior: TDBNavigationButton
  Left = 224
  Top = 16
  Width = 75
  Height = 25
  Caption = '&Anterior'
  TabOrder = 1
  NumGlyphs = 2
  DataButtonType = nbPrior
  DataSource = DataModuleBBDD.DataSourceClientes
  DisableReasons = [drBOF, drEditing, drEmpty]
  RuntimeEnabled = True
end
object dbNavBtnFirst: TDBNavigationButton
  Left = 136
  Top = 16
  Width = 75
  Height = 25
  Caption = '&Primero'
  TabOrder = 0
  NumGlyphs = 2
  DataButtonType = nbFirst
  DataSource = DataModuleBBDD.DataSourceClientes
  DisableReasons = [drBOF, drEditing, drEmpty]
  RuntimeEnabled = True
end
end
object BotonSalir: TButton
  Left = 568
  Top = 456
  Width = 75
  Height = 33
  Caption = '&Salir'
  TabOrder = 4
  OnClick = BotonSalirClick
end
end
```

C.15. Formulario fnueva_cita.

Archivo “nueva_cita.cpp”

```
//-----

#include <vcl.h>
#pragma hdrstop

#include "nueva_cita.h"
//#include "agenda.h"
#include "principal.h"
#include "datosBBDD.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfnueva_cita *fnueva_cita;
//-----
__fastcall Tfnueva_cita::Tfnueva_cita(TComponent* Owner)

: TForm(Owner)
{
}
//-----
void __fastcall Tfnueva_cita::BotonNuevaCitaClick(TObject *Sender)
{
    DataModuleBBDD->TablaAgenda->Last();
    DataModuleBBDD->TablaAgenda->Append();
    //Se rellena el nuevo registro con los datos del formulario
    //Para el primer campo se puede hacer de dos formas. Una es ésta:
    //String texto = EditIDCaso->Text;
    //fagenda->Table1->FieldByName("IDCaso")->AsInteger = texto.ToInt();
    //y la otra es ésta (la q se usa):
    DataModuleBBDD->TablaAgenda->FieldByName("Fecha")->Value = \
                                                DateTimePicker1->Date;
    DataModuleBBDD->TablaAgenda->FieldByName("Hora")->Value = StrToTime \
                                                (EditHora->Text);
    if (CheckPeriodicidad->Checked)
    {
        DataModuleBBDD->TablaAgenda->FieldByName("Periodicidad")->Value = \
                                                True;
        DataModuleBBDD->TablaAgenda->FieldByName("IDIntervalo")->Value = \
                                                (ComboBoxIntervalo->ItemIndex) + 1;
        DataModuleBBDD->TablaAgenda->FieldByName("Cantidad")->Value = \
                                                StrToInt(EditCantidad->Text);
    }
    else
    {
        DataModuleBBDD->TablaAgenda->FieldByName("Periodicidad")->Value = \
                                                False;
        DataModuleBBDD->TablaAgenda->FieldByName("IDIntervalo")->Value = 1;
        DataModuleBBDD->TablaAgenda->FieldByName("Cantidad")->Value = 0;
    }
    DataModuleBBDD->TablaAgenda->FieldByName("Cita")->Value = MemoCita \
```

```

                                                                    ->Text;

        //Se hace el post para actualizar la tabla agenda
        DataModuleBBDD->TablaAgenda->Post();
        DataModuleBBDD->TablaAgenda->Refresh();
        Hide();
    }
    //-----

void __fastcall Tf nueva_cita::CheckPeriodicidadClick(TObject *Sender)
{
    if (CheckPeriodicidad->Checked)//Si el checkbox de periodicidad está activado
    {
        //Está activado
        LabelIntervalo->Enabled = true;
        LabelCantidad->Enabled = true;
        ComboBoxIntervalo->Enabled = true;
        EditCantidad->Enabled = true;
    }
    else
    {
        //Está desactivado
        LabelIntervalo->Enabled = false;
        LabelCantidad->Enabled = false;
        ComboBoxIntervalo->Enabled = false;
        EditCantidad->Enabled = false;
    }
}
//-----

void __fastcall Tf nueva_cita::FormActivate(TObject *Sender)
{
    //Preparación del combo del intervalo
    DataModuleBBDD->TablaIntervalo->First();
    ComboBoxIntervalo->Items->Clear();

    for (int i=0 ; i < DataModuleBBDD->TablaIntervalo->RecordCount ; i++)
    {
        ComboBoxIntervalo->Items->Add( DataModuleBBDD->TablaIntervalo \
                                        ->FieldByName("Intervalo")->Value );
        DataModuleBBDD->TablaIntervalo->Next();
    }
    //Fin de la preparación del combo

    DateTimePicker1->Date = Date(); //La fecha por defecto es la actual

    LabelIntervalo->Enabled = false;
    LabelCantidad->Enabled = false;
    ComboBoxIntervalo->Enabled = false;
    EditCantidad->Enabled = false;
}
//-----

void __fastcall Tf nueva_cita::BotonSalirClick(TObject *Sender)
{
    Close();
}
//-----

```

Archivo “nueva_cita.h”

```
//-----  
  
#ifndef nueva_citaH  
#define nueva_citaH  
//-----  
#include <Classes.hpp>  
#include <Controls.hpp>  
#include <StdCtrls.hpp>  
#include <Forms.hpp>  
#include <ComCtrls.hpp>  
//-----  
class Tfueva_cita : public TForm  
{  
__published: // IDE-managed Components  
    TLabel *LabelFecha;  
    TLabel *LabelHora;  
    TLabel *LabelIntervalo;  
    TLabel *LabelCantidad;  
    TLabel *LabelCita;  
    TEdit *EditHora;  
    TEdit *EditCantidad;  
    TMemo *MemoCita;  
    TButton *BotonNuevaCita;  
    TCheckBox *CheckPeriodicidad;  
    TDateTimePicker *DateTimePicker1;  
    TButton *BotonSalir;  
    TComboBox *ComboBoxIntervalo;  
    void __fastcall BotonNuevaCitaClick(TObject *Sender);  
    void __fastcall CheckPeriodicidadClick(TObject *Sender);  
    void __fastcall FormActivate(TObject *Sender);  
    void __fastcall BotonSalirClick(TObject *Sender);  
private: // User declarations  
public: // User declarations  
    __fastcall Tfueva_cita(TComponent* Owner);  
};  
//-----  
extern PACKAGE Tfueva_cita *fnueva_cita;  
//-----  
#endif
```

Archivo “nueva_cita.dfm”

```
object fnueva_cita: Tfueva_cita  
    Left = 260  
    Top = 233  
    Width = 604
```



```
Height = 374
Caption = 'SIGPYME: Nueva Cita'
Color = clBtnFace
Font.Charset = DEFAULT_CHARSET
Font.Color = clWindowText
Font.Height = -11
Font.Name = 'MS Sans Serif'
Font.Style = []
OldCreateOrder = False
OnActivate = FormActivate
PixelsPerInch = 96
TextHeight = 13
object LabelFecha: TLabel
  Left = 24
  Top = 48
  Width = 97
  Height = 13
  Caption = 'Fecha (DD/MM/AA)'
end
object LabelHora: TLabel
  Left = 24
  Top = 96
  Width = 69
  Height = 13
  Caption = 'Hora (HH:MM)'
end
object LabelIntervalo: TLabel
  Left = 328
  Top = 96
  Width = 41
  Height = 13
  Caption = 'Intervalo'
end
object LabelCantidad: TLabel
  Left = 328
  Top = 144
  Width = 42
  Height = 13
  Caption = 'Cantidad'
end
object LabelCita: TLabel
  Left = 112
  Top = 184
  Width = 18
  Height = 13
  Caption = 'Cita'
end
object EditHora: TEdit
  Left = 136
  Top = 96
  Width = 121
  Height = 21
  TabOrder = 1
end
object EditCantidad: TEdit
  Left = 416
  Top = 144
```

```
Width = 121
Height = 21
TabOrder = 4
end
object MemoCita: TMemo
Left = 168
Top = 184
Width = 265
Height = 57
TabOrder = 5
end
object BotonNuevaCita: TButton
Left = 400
Top = 272
Width = 75
Height = 25
Caption = 'Crear cita'
TabOrder = 6
OnClick = BotonNuevaCitaClick
end
object CheckPeriodicidad: TCheckBox
Left = 324
Top = 48
Width = 101
Height = 17
Alignment = taLeftJustify
Caption = 'Periodicidad'
TabOrder = 2
OnClick = CheckPeriodicidadClick
end
object DateTimePicker1: TDateTimePicker
Left = 136
Top = 40
Width = 89
Height = 25
CalAlignment = dtaLeft
Date = 37466.4003153009
Time = 37466.4003153009
DateFormat = dfShort
DateMode = dmComboBox
Kind = dtkDate
ParseInput = False
TabOrder = 0
end
object BotonSalir: TButton
Left = 504
Top = 272
Width = 73
Height = 25
Caption = 'Cancelar'
Font.Charset = DEFAULT_CHARSET
Font.Color = clBlack
Font.Height = -11
Font.Name = 'MS Sans Serif'
Font.Style = []
ParentFont = False
TabOrder = 7
```

```
OnClick = BotonSalirClick
end
object ComboBoxIntervalo: TComboBox
Left = 416
Top = 96
Width = 121
Height = 21
ItemHeight = 13
TabOrder = 3
end
end
```

C.16. Formulario *fprincipal*.

Archivo “principal.cpp”

```
//-----
#include <vcl.h>
#include <dir.h>
#pragma hdrstop

#include "principal.h"
// #include "agenda.h"
#include "acercade.h"
#include "configuracion.h"
#include "nueva_cita.h"
#include "modificar_cita.h"
#include "modificar_tabla_clas.h"
#include "editar_campo_cita.h"
#include "navegar_clientes.h"
#include "datosBBDD.h"
#include "consulta.h"
#include "citas_hoy.h"
#include "buscar_cita.h"
#include "borrar_cita.h"
#include "informes.h"
#include "informes_citas.h"
//-----
#pragma package(smart_init)
#pragma link "Navbtn"
#pragma resource "*.dfm"
Tfprincipal *fprincipal;
//-----
__fastcall Tfprincipal::Tfprincipal(TComponent* Owner)
: TForm(Owner)
{
}
//-----

void __fastcall Tfprincipal::BotonAgendaClick(TObject *Sender)
```

```
{
    PanelAgenda->Visible = true;
    PanelClientes->Visible = false;
}

//-----

void __fastcall Tfprincipal::Agenda2Click(TObject *Sender)
{
    PanelAgenda->Visible = true;
    PanelClientes->Visible = false;
}
//-----

void __fastcall Tfprincipal::Salir1Click(TObject *Sender)
{
    Close();
}
//-----

void __fastcall Tfprincipal::Acercade1Click(TObject *Sender)
{
    facercade->Show();
}
//-----

void __fastcall Tfprincipal::BotonSalirClick(TObject *Sender)
{
    Close();
}
//-----

void __fastcall Tfprincipal::BotonClientesClick(TObject *Sender)
{
    PanelAgenda->Visible = false;
    PanelClientes->Visible = true;
}
//-----

void __fastcall Tfprincipal::Clientes1Click(TObject *Sender)
{
    PanelAgenda->Visible = false;
    PanelClientes->Visible = true;
}
//-----

void __fastcall Tfprincipal::Configuracion1Click(TObject *Sender)
{
    fconfiguracion->Show();
}
//-----

void __fastcall Tfprincipal::FormCloseQuery(TObject *Sender,
    bool &CanClose)
```

```
{
    //Poner atención a que CanClose es un parámetro que se le pasa a la función
    if ( GOption1 == true )
        if ( Application->MessageBox("¿Realmente quiere salir de la \
                                     aplicación?","Confirmación",MB_YESNO) == IDYES)
            CanClose = true;
        else
            CanClose = false;
}
//-----

void __fastcall Tfprincipal::BotonNuevaCitaClick(TObject *Sender)
{
    fnueva_cita->Show();
}
//-----

void __fastcall Tfprincipal::BotonModificarCitaClick(TObject *Sender)
{
    if (DataModuleBBDD->TablaAgenda->RecordCount)
        fmodificar_cita->Show();
    else
        ShowMessage("No existe ninguna cita en la base de de datos.");
}
//-----

void __fastcall Tfprincipal::BotonBorrarCitaClick(TObject *Sender)
{
    //Procedemos al borrado de una cita
    fbuscar_cita->BorrarCita = true;
    fbuscar_cita->Caption = "SIGPYME: Borrar cita";
    fbuscar_cita->Show();
}
//-----

void __fastcall Tfprincipal::BotonClasificacion1Click(TObject *Sender)
{
    //Primero desactivamos la tabla para poder hacer los cambios que queremos
    DataModuleBBDD->TablaClas->Active = False;
    fmodificar_tabla_clas->Caption = "SIGPYME: Modificar tabla de clasificaciones 1";
    //Este cambio es el que hace necesario que la tabla se desactive
    DataModuleBBDD->TablaClas->TableName = "clas1.db";
    DataModuleBBDD->TablaClas->Active = True;
    fmodificar_tabla_clas->Show();
}
//-----

void __fastcall Tfprincipal::BotonClasificacion2Click(TObject *Sender)
{
    DataModuleBBDD->TablaClas->Active = False;
    fmodificar_tabla_clas->Caption = "SIGPYME: Modificar tabla de clasificaciones 2";
    DataModuleBBDD->TablaClas->TableName = "clas2.db";
    DataModuleBBDD->TablaClas->Active = True;
}
```

```
fmodificar_tabla_clas->Show();

}
//-----

void __fastcall Tfprincipal::BotonClasificacion3Click(TObject *Sender)
{
    DataModuleBBDD->TablaClas->Active = False;
    fmodificar_tabla_clas->Caption = "SIGPYME: Modificar tabla de clasificaciones 3";
    DataModuleBBDD->TablaClas->TableName = "clas3.db";
    DataModuleBBDD->TablaClas->Active = True;
    fmodificar_tabla_clas->Show();
}
//-----

void __fastcall Tfprincipal::DBGridAgendaEditButtonClick(TObject *Sender)
{
    DataModuleBBDD->TablaAgenda->Active = false;
    feditar_campo_cita->DBMemo1->DataSource = DataModuleBBDD \
                                                ->DataSourceAgenda;

    feditar_campo_cita->DBMemo1->DataField = "Cita";
    feditar_campo_cita->Caption = "SIGPYME: Editar cita";
    DataModuleBBDD->TablaAgenda->Active = true;
    feditar_campo_cita->Show();
}
//-----

void __fastcall Tfprincipal::FormActivate(TObject *Sender)
{
    if (primeravez)
    {
        IniciarDatos(this);
        primeravez = false;

        reg = new TRegistry;
        reg->RootKey = HKEY_CURRENT_USER;
        reg->OpenKey("\\Software\\Microsoft\\Windows\\CurrentVersion\\Run",
                                                            true);

        if ( !reg->ValueExists("citas") )
            ShowMessage("No existe la clave citas. Error fatal");
        else
        {
            if (reg->ReadString("citas") == "") //Si el valor "citas" no tiene informacion
            {
                ShowMessage("Ésta es la primera vez que se ejecuta SIGPYME");
                ShowMessage("A partir de ahora windows le avisará de sus citas al \
                                                                    iniciarse.");

                PathApp = ExtractFilePath(Application->ExeName);
                AnsiString PathCitas = PathApp + "citas\\citas.exe";
                reg->WriteString("citas",PathCitas);
            }
        }
        reg->CloseKey();
        delete reg;
    }
}
```

```
}
//-----

void __fastcall Tfprincipal::IniciarDatos(TObject *Sender)
{
//OBTENCION DE ALGUNAS VARIABLES GLOBALES

    //PATH
    PathApp = ExtractFilePath(Application->ExeName);
    ConsultaClientes = true;

//TRATAMIENTO DE LOS VALORES DEL REGISTRO DE WINDOWS
    reg = new TRegistry;
    reg->RootKey = HKEY_LOCAL_MACHINE;
    reg->OpenKey(@"\SOFTWARE\sigpyme", true);

    //OPCION 1
    if ( !reg->ValueExists("Opcion1") ) //Si no existe en el registro
    {
        reg->WriteBool("Opcion1",false); //La creo
        GOpcion1 = false; //Le doy el mismo valor a la correspondiente variable
                                //global
    }
    else
    {
        if (primeravez)
            GOpcion1 = reg->ReadBool("Opcion1");
        else
            reg->WriteBool("Opcion1",GOpcion1);
    }

    //OPCION 2
    if ( !reg->ValueExists("Opcion2") ) //Si no existe en el registro
    {
        PathBBDD = PathApp + "BBDD\"; //Path por defecto
        reg->WriteString("Opcion2",PathBBDD); //La creo
        GOpcion2 = PathBBDD; //Le doy el mismo valor a la correspondiente variable
                                //global
    }
    else
    {
        if (primeravez)
            GOpcion2 = reg->ReadString("Opcion2");
        else
            reg->WriteString("Opcion2",GOpcion2);
    }

    PathBBDD = GOpcion2; //Mantengo actualizado este valor
    //Hay que comprobar si existe el directorio BBDD
    if ( !DirectoryExists(PathBBDD) )
    {
        ShowMessage("No existe el directorio BBDD, procedo a crearlo");
        if (!CreateDir(PathBBDD))
            throw Exception("No puedo crear el directorio BBDD necesario para la \
```

```

                                ejecucion");
    }

    //OPCION 3
    if ( !reg->ValueExists("Opcion3") ) //Si no existe en el registro
    {
        reg->WriteBool("Opcion3",false); //La creo
        GOpcion3 = false; //Le doy el mismo valor a la correspondiente variable
                                //global
    }
    else
    {
        if (primeravez)
            GOpcion3 = reg->ReadBool("Opcion3");
        else
            reg->WriteBool("Opcion3",GOpcion3);
    }

    //OPCION 4
    if ( !reg->ValueExists("Opcion4") ) //Si no existe en el registro
    {
        reg->WriteBool("Opcion4",true); //La creo
        GOpcion1 = false; //Le doy el mismo valor a la correspondiente variable
                                //global
    }
    else
    {
        if (primeravez)
            GOpcion4 = reg->ReadBool("Opcion4");
        else
            reg->WriteBool("Opcion4",GOpcion4);
    }

    reg->CloseKey();
    delete reg;

    //Procedemos a establecer el PATH de las bases de datos y a controlar si existen

    //Procedemos a establecer el PATH de las bases de datos

    //Empezamos con la base de datos de CLIENTES
    //Desactivamos la tabla clientes.db y la base de datos
    DataModuleBBDD->TablaClientes->Active = false;
    DataModuleBBDD->DatabaseClientes->Connected = false;

    DataModuleBBDD->DatabaseClientes->Params->Clear();
    //Añadimos el PATH
    AnsiString PathClientes = "PATH=" + GOpcion2 + "clientes";
    // ¿Existe este path? Si no es así, hay q crearlo
    AnsiString DirectorioClientes = GOpcion2 + "clientes";
    if ( !DirectoryExists(DirectorioClientes) )
    {
        ShowMessage("No existe el directorio Clientes, procedo a crearlo");
        if (!CreateDir(DirectorioClientes))
            throw Exception("No puedo crear el directorio clientes necesario para \
                                la ejecucion");
    }
}

```

```
DataModuleBBDD->DatabaseClientes->Params->Add(PathClientes);

//Vamos a comprobar si existe la tabla clientes.db
TFieldDef *NuevoCampo;

AnsiString PathArchivo = GOpcion2 + "clientes" + "\\clientes.db";

if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla clientes.db no existe, procedo a su creación");

    DataModuleBBDD->TablaClientes->FieldDefs->Clear();

    //Creamos todos los campos
    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDCliente";
    NuevoCampo->DataType = ftAutoInc;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas1";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas2";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas3";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Nombre";
    NuevoCampo->DataType = ftString;
    NuevoCampo->Size = 20;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Apellidos";
    NuevoCampo->DataType = ftString;
    NuevoCampo->Size = 40;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Tfno";
    NuevoCampo->DataType = ftString;
    NuevoCampo->Size = 12;

    NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Email";
    NuevoCampo->DataType = ftString;
```

```
NuevoCampo->Size = 30;

NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs->    \
    AddFieldDef();
NuevoCampo->Name = "Domicilio";
NuevoCampo->DataType = ftString;
NuevoCampo->Size = 30;

NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs->    \
    AddFieldDef();
NuevoCampo->Name = "Cp";
NuevoCampo->DataType = ftString;
NuevoCampo->Size = 5;

NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs->    \
    AddFieldDef();
NuevoCampo->Name = "Localidad";
NuevoCampo->DataType = ftString;
NuevoCampo->Size = 20;

NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs->    \
    AddFieldDef();
NuevoCampo->Name = "IDProv";
NuevoCampo->DataType = ftString;
NuevoCampo->Size = 3;

NuevoCampo = DataModuleBBDD->TablaClientes->FieldDefs->    \
    AddFieldDef();
NuevoCampo->Name = "Comentarios";
NuevoCampo->DataType = ftMemo;
NuevoCampo->Size = 240;

//Creamos los índices
DataModuleBBDD->TablaClientes->IndexDefs->Clear();
DataModuleBBDD->TablaClientes->IndexDefs->Add("", "IDCliente", \
    TIndexOptions() <<ixPrimary << ixUnique);

//Creamos la tabla
DataModuleBBDD->TablaClientes->CreateTable();
}

//Activamos la tabla clientes.db pero no la base de datos
//DataModuleBBDD->TablaClientes->Active = true;
//Jejeje, esta tabla no se puede activar todavía, pq contiene referencias a
//clas1.db y el resto, y nadie nos garantiza q esas tablas existan ya

//DataModuleBBDD->TablaClas->Active = false;
//Vamos a comprobar si existe la tabla clas1.db
PathArchivo = GOpcion2 + "clientes" + "\\clas1.db";
if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla clas1.db no existe, procedo a su creación");

    DataModuleBBDD->TablaClas->TableName = "clas1.db";
    DataModuleBBDD->TablaClas->FieldDefs->Clear();
```

```
//Creamos todos los campos
NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "IDClas1";
NuevoCampo->DataType = ftInteger;

NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "Clas1";
NuevoCampo->DataType = ftString;
NuevoCampo->Size = 20;

//Creamos los índices
DataModuleBBDD->TablaClas->IndexDefs->Clear(); \
DataModuleBBDD->TablaClas->IndexDefs->Add("", "IDClas1",
    TIndexOptions() <<ixPrimary << ixUnique);

//Creamos la tabla
DataModuleBBDD->TablaClas->CreateTable();
}

DataModuleBBDD->TablaClas->Active=false;
DataModuleBBDD->DatabaseClientes->Connected = false;
//Vamos a comprobar si existe la tabla clas2.db
PathArchivo = GOpcion2 + "clientes" + "\\clas2.db";
if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla clas2.db no existe, procedo a su creación");

    DataModuleBBDD->TablaClas->TableName = "clas2.db";
    DataModuleBBDD->TablaClas->FieldDefs->Clear();

    //Creamos todos los campos
    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas1";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas2";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Clas2";
    NuevoCampo->DataType = ftString;
    NuevoCampo->Size = 20;

    //Creamos los índices
    DataModuleBBDD->TablaClas->IndexDefs->Clear();
    DataModuleBBDD->TablaClas->IndexDefs->Add("", "IDClas1", \
        TIndexOptions() <<ixPrimary << ixUnique);
    DataModuleBBDD->TablaClas->IndexDefs->Add("Indice2", "IDClas2", \
        TIndexOptions() << ixUnique);
```

```
//Creamos la tabla
DataModuleBBDD->TablaClas->CreateTable();
}

DataModuleBBDD->TablaClas->Active=false;
//Vamos a comprobar si existe la tabla clas3.db
PathArchivo = GOpcion2 + "clientes" + "\\clas3.db";
if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla clas3.db no existe, procedo a su creación");

    DataModuleBBDD->TablaClas->TableName = "clas3.db";
    DataModuleBBDD->TablaClas->FieldDefs->Clear();

    //Creamos todos los campos
    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas2";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDClas3";
    NuevoCampo->DataType = ftInteger;

    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Clas3";
    NuevoCampo->DataType = ftString;
    NuevoCampo->Size = 20;

    //Creamos los índices
    DataModuleBBDD->TablaClas->IndexDefs->Clear();
    DataModuleBBDD->TablaClas->IndexDefs->Add("", "IDClas2", \
        TIndexOptions() <<ixPrimary << ixUnique);
    DataModuleBBDD->TablaClas->IndexDefs->Add("otro", "IDClas3", \
        TIndexOptions() << ixUnique);

    //Creamos la tabla
    DataModuleBBDD->TablaClas->CreateTable();
}

DataModuleBBDD->TablaClas->Active=false;

//Vamos a comprobar si existe la tabla provincia.db
PathArchivo = GOpcion2 + "clientes" + "\\provincia.db";
if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla provincia.db no existe, procedo a su creación");

    DataModuleBBDD->TablaClas->TableName = "provincia.db";
    DataModuleBBDD->TablaClas->FieldDefs->Clear();

    //Creamos todos los campos
    NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDProv";
    NuevoCampo->DataType = ftString;
```

```
NuevoCampo->Size = 3;

NuevoCampo = DataModuleBBDD->TablaClas->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "Provincia";
NuevoCampo->DataType = ftString;
NuevoCampo->Size = 20;

//Creamos los índices
DataModuleBBDD->TablaClas->IndexDefs->Clear();
DataModuleBBDD->TablaClas->IndexDefs->Add("", "IDProv", \
    TIndexOptions() <<ixPrimary << ixUnique);

//Creamos la tabla
DataModuleBBDD->TablaClas->CreateTable();

ShowMessage("Paso a rellenar la tabla de provincias");
DataModuleBBDD->TablaClas->Active = true;

DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ALA";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Álava";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ALB";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Albacete";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ALI";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Alicante";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ALM";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Almería";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "AVI";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Ávila";
DataModuleBBDD->TablaClas->Post();
//-----//

DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "BAD";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Badajoz";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
```

```

DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "BAL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Balears";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "BAR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Barcelona";

DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "BUR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Burgos";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "CAC";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Cáceres";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "CAD";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Cádiz";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "CAS";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Castellón";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "CEU";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Ceuta";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "CIU";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Ciudad \
    Real";

DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "COR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Córdoba";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();

```

```

DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "CUE";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Cuenca";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "GER";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Gerona";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "GRA";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Granada";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "GUA";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Guadalajara";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "GUI";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Guipúzcoa";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "HUE";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Huesca";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "HUL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Huelva";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "JAE";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Jaén";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "LAC";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "La \
    Coruña";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();

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DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "LAS";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Las \
Palmas";

DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "LEO";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "León";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "LER";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Lérida";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "LOG";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Logroño";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "LUG";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Lugo";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "MAD";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Madrid";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "MAL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Málaga";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "MEL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Melilla";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "MUR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Murcia";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();

DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ORE";

```



```
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Orense";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "OVI";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Oviedo";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "PAL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Palencia";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "PAM";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Pamplona";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "PON";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Pontevedra";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "SAL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Salamanca";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "SAN";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Santander";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "SEG";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Segovia";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "SEV";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Sevilla";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
```

```

DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "SOR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Soria";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "STA";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Santa Cruz de Teneri";

DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "TAR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Tarragona";

DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "TER";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Teruel";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "TOL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Toledo";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "VAL";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Valencia";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "VAY";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = \
    "Valladolid";

DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "VIZ";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Vizcaya";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ZAM";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Zamora";
DataModuleBBDD->TablaClas->Post();
//-----//
DataModuleBBDD->TablaClas->Last();
DataModuleBBDD->TablaClas->Append();

```

```
DataModuleBBDD->TablaClas->FieldByName("IDProv")->Value = "ZAR";
DataModuleBBDD->TablaClas->FieldByName("Provincia")->Value = "Zaragoza";
DataModuleBBDD->TablaClas->Post();
//-----//

}

//Ya podemos activar la base de datos clientes, ya hemos comprobado la
//existencia de todas las tablas que la componen

//DataModuleBBDD->TablaClas->Active = true;
DataModuleBBDD->TablaClas1->Active = true;
DataModuleBBDD->TablaClas2->Active = true;
DataModuleBBDD->TablaClas3->Active = true;
DataModuleBBDD->TablaProv->Active = true;
DataModuleBBDD->TablaClientes->Active = true;
DataModuleBBDD->DatabaseClientes->Connected = true;

//Continuamos ahora con la base de datos de AGENDA:
DataModuleBBDD->TablaAgenda->Active = false;
DataModuleBBDD->DatabaseAgenda->Connected = false;
DataModuleBBDD->DatabaseAgenda->Params->Clear();
AnsiString PathAgenda = "PATH=" + GOpcion2 + "agenda";
// ¿Existe este path? Si no es así, hay q crearlo
AnsiString DirectorioAgenda = GOpcion2 + "agenda";
if ( !DirectoryExists(DirectorioAgenda) )
{
    ShowMessage("No existe el directorio Agenda, procedo a crearlo");
    if (!CreateDir(DirectorioAgenda))
        throw Exception("No puedo crear el directorio \"agenda\" necesario \
para la ejecucion");
}

DataModuleBBDD->DatabaseAgenda->Params->Add(PathAgenda);

//Vamos a comprobar si existe la tabla agenda.db

PathArchivo = GOpcion2 + "agenda" + "\\agenda.db";

if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla agenda.db no existe, procedo a su creación");

    DataModuleBBDD->TablaAgenda->FieldDefs->Clear();

    //Creamos todos los campos
    NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDCaso";
    NuevoCampo->DataType = ftAutoInc;

    NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Fecha";
    NuevoCampo->DataType = ftDate;
```

```
NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "Hora";
NuevoCampo->DataType = ftTime;

NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "Periodicidad";
NuevoCampo->DataType = ftBoolean;

NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "IDIntervalo";
NuevoCampo->DataType = ftSmallint;

NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "Cantidad";
NuevoCampo->DataType = ftSmallint;

NuevoCampo = DataModuleBBDD->TablaAgenda->FieldDefs-> \
    AddFieldDef();
NuevoCampo->Name = "Cita";
NuevoCampo->DataType = ftMemo;
NuevoCampo->Size = 240;

//Creamos los índices
DataModuleBBDD->TablaAgenda->IndexDefs->Clear();
DataModuleBBDD->TablaAgenda->IndexDefs->Add("", "IDCaso", \
    TIndexOptions() <<ixPrimary << ixUnique);

//Creamos la tabla
DataModuleBBDD->TablaAgenda->CreateTable();
}

DataModuleBBDD->TablaIntervalo->Active = false;
//Vamos a comprobar si existe la tabla intervalo.db
PathArchivo = GOption2 + "agenda" + "\\intervalo.db";
if ( !FileExists(PathArchivo) )
{
    ShowMessage("La tabla intervalo.db no existe, procedo a su creación.");

    DataModuleBBDD->TablaIntervalo->TableName = "intervalo.db";
    DataModuleBBDD->TablaIntervalo->FieldDefs->Clear();

    //Creamos todos los campos
    NuevoCampo = DataModuleBBDD->TablaIntervalo->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "IDIntervalo";
    NuevoCampo->DataType = ftSmallint;

    NuevoCampo = DataModuleBBDD->TablaIntervalo->FieldDefs-> \
        AddFieldDef();
    NuevoCampo->Name = "Intervalo";
    NuevoCampo->DataType = ftString;
    NuevoCampo->Size = 20;
```

```

//Creamos los índices
DataModuleBBDD->TablaIntervalo->IndexDefs->Clear();
DataModuleBBDD->TablaIntervalo->IndexDefs->Add("", "IDIntervalo",
    TIndexOptions() <<ixPrimary << ixUnique);

//Creamos la tabla
DataModuleBBDD->TablaIntervalo->CreateTable();

ShowMessage("Paso a rellenar los valores de la tabla intervalo");
DataModuleBBDD->TablaIntervalo->Active = true;
DataModuleBBDD->TablaIntervalo->Last();
DataModuleBBDD->TablaIntervalo->Append();
DataModuleBBDD->TablaIntervalo->FieldByName("IDIntervalo")->Value = 1;
DataModuleBBDD->TablaIntervalo->FieldByName("Intervalo")->Value = \
    "semanal";

DataModuleBBDD->TablaIntervalo->Post();
//-----//
DataModuleBBDD->TablaIntervalo->Last();
DataModuleBBDD->TablaIntervalo->Append();
DataModuleBBDD->TablaIntervalo->FieldByName("IDIntervalo")->Value = 2;
DataModuleBBDD->TablaIntervalo->FieldByName("Intervalo")->Value = \
    "mensual";

DataModuleBBDD->TablaIntervalo->Post();
//-----//
DataModuleBBDD->TablaIntervalo->Last();
DataModuleBBDD->TablaIntervalo->Append();
DataModuleBBDD->TablaIntervalo->FieldByName("IDIntervalo")->Value = 3;
DataModuleBBDD->TablaIntervalo->FieldByName("Intervalo")->Value = \
    "trimestral";

DataModuleBBDD->TablaIntervalo->Post();
//-----//
DataModuleBBDD->TablaIntervalo->Last();
DataModuleBBDD->TablaIntervalo->Append();
DataModuleBBDD->TablaIntervalo->FieldByName("IDIntervalo")->Value = 4;
DataModuleBBDD->TablaIntervalo->FieldByName("Intervalo")->Value = \
    "semestral";

DataModuleBBDD->TablaIntervalo->Post();
//-----//
DataModuleBBDD->TablaIntervalo->Last();
DataModuleBBDD->TablaIntervalo->Append();
DataModuleBBDD->TablaIntervalo->FieldByName("IDIntervalo")->Value = 5;
DataModuleBBDD->TablaIntervalo->FieldByName("Intervalo")->Value = \
    "anual";

DataModuleBBDD->TablaIntervalo->Post();
}

DataModuleBBDD->DatabaseAgenda->Connected = true;
DataModuleBBDD->TablaAgenda->Active = true;
}

//-----
void __fastcall Tfprincipal::BotonConfiguracionClick(TObject *Sender)
{
    fconfiguracion->Show();
}
//-----

```

```
void __fastcall Tfprincipal::BotonNavegarClick(TObject *Sender)
{
    if (DataModuleBBDD->TablaClientes->RecordCount)
        fnavegar_clientes->Show();
    else
    {
        ShowMessage("No existe ningún cliente. Por favor introduzca algún cliente \
nuevo.");
        fnavegar_clientes->Show();
    }
}
//-----

void __fastcall Tfprincipal::FormCreate(TObject *Sender)
{
    primeravez = true;
}
//-----

void __fastcall Tfprincipal::BotonConsultaClick(TObject *Sender)
{
    fconsulta->Show();
}
//-----

void __fastcall Tfprincipal::Citasparahoy1Click(TObject *Sender)
{
    fcitas_hoy->Show();
}
//-----

void __fastcall Tfprincipal::B1Click(TObject *Sender)
{
    fbuscar_cita->BorrarCita = false; //No vamos a usar el formulario
    //para borrar citas
    fbuscar_cita->Caption = "SIGPYME: Buscar Citas";
    fbuscar_cita->Show();
}
//-----

void __fastcall Tfprincipal::DBGridAgendaCellClick(TColumn *Column)
{
    fmodificar_cita->Show();
    //ShowMessage(AnsiString(DataModuleBBDD->TablaAgenda->RecNo));
}
//-----

void __fastcall Tfprincipal::DBGridClientesCellClick(TColumn *Column)
{
    fnavegar_clientes->Show();
    //ShowMessage(AnsiString(DataModuleBBDD->TablaClientes->RecNo));
}
//-----
```

```
void __fastcall Tfprincipal::Button1Click(TObject *Sender)
{
    informes->QuickRep1->Preview();
}
//-----

void __fastcall Tfprincipal::Salir3Click(TObject *Sender)
{
    Close();
}
//-----

void __fastcall Tfprincipal::Todoslosclientes1Click(TObject *Sender)
{
    informes->QuickRep1->Preview();
}
//-----

void __fastcall Tfprincipal::Todaslascitas1Click(TObject *Sender)
{
    informes_citas->QuickRep1->Preview();
}
//-----

void __fastcall Tfprincipal::Citasparahoy2Click(TObject *Sender)
{
    fcitas_hoy->Show();
}
//-----

void __fastcall Tfprincipal::Buscarcita1Click(TObject *Sender)
{
    fbuscar_cita->BorrarCita = false; //No vamos a usar el formulario
    //para borrar citas
    fbuscar_cita->Caption = "SIGPYME: Buscar Citas";
    fbuscar_cita->Show();
}
//-----

void __fastcall Tfprincipal::Nuevacita1Click(TObject *Sender)
{
    fnueva_cita->Show();
}
//-----

void __fastcall Tfprincipal::Modificarcita1Click(TObject *Sender)
{
    if (DataModuleBBDD->TablaAgenda->RecordCount)
        fmodificar_cita->Show();
    else
        ShowMessage("No existe ninguna cita en la base de de datos.");
}
//-----
```

```
void __fastcall Tfprincipal::Borrarcita1Click(TObject *Sender)
{
    fbuscar_cita->BorrarCita = true;
    fbuscar_cita->Caption = "SIGPYME: Borrar cita";
    fbuscar_cita->Show();
}
//-----
```

Archivo “principal.h”

```
//-----

#ifndef principalH
#define principalH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <Menus.hpp>
#include <Db.hpp>
#include <DBTables.hpp>
#include <ExtCtrls.hpp>
#include <DBCtrls.hpp>
#include <DBGrids.hpp>
#include <Grids.hpp>
#include <Registry.hpp>
#include "Navbtn.hpp"
#include <Buttons.hpp>
//-----
class Tfprincipal : public TForm
{
__published: // IDE-managed Components
    TButton *BotonAgenda;
    TMainMenu *MainMenu1;
    TMenuItem *Agenda1;
    TMenuItem *Edicion1;
    TMenuItem *Herramientas1;
    TMenuItem *Ayuda1;
    TMenuItem *Agenda2;
    TMenuItem *Clientes1;
    TMenuItem *Acercade1;
    TMenuItem *Salir1;
    TButton *BotonSalir;
    TButton *BotonClientes;
    TMenuItem *Configuracion1;
    TMenuItem *Listados;
    TPanel *PanelAgenda;
    TPanel *PanelClientes;
    TDBGrid *DBGridAgenda;
    TButton *BotonBorrarCita;
```



```
TDBGrid *DBGridClientes;
TGroupBox *GroupBox2;
TButton *BotonNuevaCita;
TButton *BotonModificarCita;
TButton *BotonClasificacion1;
TButton *BotonClasificacion2;
TButton *BotonClasificacion3;
TLabel *LabelClientes;
TLabel *LabelAgenda;
TButton *BotonConfiguracion;
TButton *BotonNavegar;
TMenuItem *Directorioactual1;
TButton *BotonConsulta;
TMenuItem *Salir3;
TMenuItem *Todoslosclientes1;
TMenuItem *Todaslascitas1;
TDBNavigationButton *dbNavBtnFirst;
TDBNavigationButton *dbNavBtnPrior;
TDBNavigationButton *dbNavBtnNext;
TDBNavigationButton *dbNavBtnLast;
TDBNavigationButton *dbNavBtnFirst1;
TDBNavigationButton *dbNavBtnPrior2;
TDBNavigationButton *dbNavBtnNext3;
TDBNavigationButton *dbNavBtnLast4;
TMenuItem *Nuevacita1;
TMenuItem *Modificarcita1;
TMenuItem *Borrarcita1;
TMenuItem *Citasparahoy2;
TMenuItem *Buscarcita1;
TMenuItem *Clientes2;
TMenuItem *Navegacin1;
TMenuItem *Clasificacin11;
TMenuItem *Clasificacin21;
TMenuItem *Clasificacin31;
TMenuItem *Consultas1;
void __fastcall BotonAgendaClick(TObject *Sender);
void __fastcall Agenda2Click(TObject *Sender);
void __fastcall Salir1Click(TObject *Sender);
void __fastcall Acercade1Click(TObject *Sender);
void __fastcall BotonSalirClick(TObject *Sender);
void __fastcall BotonClientesClick(TObject *Sender);
void __fastcall Clientes1Click(TObject *Sender);
void __fastcall Configuracion1Click(TObject *Sender);
void __fastcall FormCloseQuery(TObject *Sender, bool &CanClose);
void __fastcall ListadosClick(TObject *Sender);
void __fastcall BotonNuevaCitaClick(TObject *Sender);
void __fastcall BotonModificarCitaClick(TObject *Sender);
void __fastcall BotonBorrarCitaClick(TObject *Sender);
void __fastcall BotonClasificacion1Click(TObject *Sender);
void __fastcall BotonClasificacion2Click(TObject *Sender);
void __fastcall BotonClasificacion3Click(TObject *Sender);
void __fastcall DBGridAgendaEditButtonClick(TObject *Sender);
void __fastcall FormActivate(TObject *Sender);
void __fastcall BotonConfiguracionClick(TObject *Sender);
void __fastcall BotonNavegarClick(TObject *Sender);
void __fastcall Directorioactual1Click(TObject *Sender);
void __fastcall FormCreate(TObject *Sender);
```

```
void __fastcall IniciarDatos(TObject *Sender);
void __fastcall BotonConsultaClick(TObject *Sender);
void __fastcall Citasparahoy1Click(TObject *Sender);
void __fastcall B1Click(TObject *Sender);
void __fastcall DBGridAgendaCellClick(TColumn *Column);
void __fastcall DBGridClientesCellClick(TColumn *Column);
void __fastcall Button1Click(TObject *Sender);
void __fastcall Salir3Click(TObject *Sender);
void __fastcall Todoslosclientes1Click(TObject *Sender);
void __fastcall Todaslas citas1Click(TObject *Sender);
void __fastcall Citasparahoy2Click(TObject *Sender);
void __fastcall Buscarcita1Click(TObject *Sender);
void __fastcall Nuevacita1Click(TObject *Sender);
void __fastcall Modificarcita1Click(TObject *Sender);
void __fastcall Borrarcita1Click(TObject *Sender);
private: // User declarations
public: // User declarations
    bool primeravez; //Para saber si es la priemra vez que se ejecuta el formulario
principal
    TRegistry *reg;
    AnsiString PathApp;
    AnsiString PathBBDD;
    bool GOpcion1;
    AnsiString GOpcion2;
    bool GOpcion3;
    bool GOpcion4;
    bool ConsultaClientes; //Para el Formulario fconsulta

    __fastcall Tfprincipal(TComponent* Owner);
};
//-----
extern PACKAGE Tfprincipal *fprincipal;
//-----
#endif
```

C.17. Formulario *fsplash*.

Archivo “splash.cpp”

```
//-----
#include <vcl.h>
#pragma hdrstop

#include "splash.h"
//-----
#pragma package(smart_init)
#pragma resource "*.dfm"
Tfsplash *fsplash;
//-----
__fastcall Tfsplash::Tfsplash(TComponent* Owner)
    : TForm(Owner)
```

```
{
}
//-----
void __fastcall Tfsplash::TimerSplashTimer(TObject *Sender)
{
    Close();
}
//-----

void __fastcall Tfsplash::CreateParams(TCreateParams &Params)
{
    TForm::CreateParams(Params);
    Params.Style = WS_CAPTION;
}

//-----
void __fastcall Tfsplash::FormClose(TObject *Sender, TCloseAction &Action)
{
    Action = caFree;
}
//-----
```

Archivo “splash.h”

```
//-----

#ifndef splashH
#define splashH
//-----
#include <Classes.hpp>
#include <Controls.hpp>
#include <StdCtrls.hpp>
#include <Forms.hpp>
#include <ExtCtrls.hpp>
//-----
class Tfsplash : public TForm
{
__published: // IDE-managed Components
    TTimer *TimerSplash;
    TLabel *LabelSplash;
    void __fastcall TimerSplashTimer(TObject *Sender);
    void __fastcall FormClose(TObject *Sender, TCloseAction &Action);
private: // User declarations
    void __fastcall CreateParams(TCreateParams &Params);
public: // User declarations
    __fastcall Tfsplash(TComponent* Owner);
};
//-----
extern PACKAGE Tfsplash *fsplash;
//-----
#endif
```

Archivo “splash.dfm”

```
object fsplash: Tfsplash
  Left = 409
  Top = 175
  BorderIcons = []
  BorderStyle = bsDialog
  Caption = 'splash'
  ClientHeight = 214
  ClientWidth = 458
  Color = clBtnFace
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clWindowText
  Font.Height = -11
  Font.Name = 'MS Sans Serif'
  Font.Style = []
  FormStyle = fsStayOnTop
  OldCreateOrder = False
  Position = poScreenCenter
  OnClose = FormClose
  PixelsPerInch = 96
  TextHeight = 13
  object LabelSplash: TLabel
    Left = 152
    Top = 64
    Width = 196
    Height = 61
    Caption = 'SIGPYME'
    Font.Charset = ANSI_CHARSET
    Font.Color = clPurple
    Font.Height = -48
    Font.Name = 'Trebuchet MS'
    Font.Style = [fsBold, fsItalic]
    ParentFont = False
  end
  object TimerSplash: TTimer
    Interval = 1
    OnTimer = TimerSplashTimer
    Left = 424
    Top = 176
  end
end
```

C.18. Archivo “sigpyme.cpp”

```
//-----
#include <vcl.h>
#pragma hdrstop
#include "splash.h"
USERES("sigpyme.res");
USEFORM("principal.cpp", fprincipal);
USEFORM("editar_campo_cita.cpp", feditar_campo_cita);
USEFORM("nueva_cita.cpp", fnueva_cita);
```

```
USEFORM("modificar_cita.cpp", fmodificar_cita);
USEFORM("acercade.cpp", facercade);
USEFORM("modificar_tabla_clas.cpp", fmodificar_tabla_clas);
USEFORM("configuracion.cpp", fconfiguracion);
USEFORM("splash.cpp", fsplash);
USEFORM("navegar_clientes.cpp", fnavegar_clientes);
USEFORM("datosBBDD.cpp", DataModuleBBDD); /* TDataModule: File Type */
USEFORM("consulta.cpp", fconsulta);
USEFORM("citas_hoy.cpp", fcitas_hoy);
USEFORM("buscar_cita.cpp", fbuscar_cita);
USEFORM("informes.cpp", finformes);
USEFORM("informes_citas.cpp", finformes_citas);
USEFORM("informe_consulta_clientes.cpp", finforme_consulta_clientes);
USEFORM("informe_consulta_citas.cpp", finforme_consulta_citas);
USEFORM("informe_citas_hoy.cpp", finforme_citas_hoy);
//-----
WINAPI WinMain(HINSTANCE, HINSTANCE, LPSTR, int)
{
    HANDLE mutex; //para implementar el sistema de bloqueos
    try
    {
        const char mutexname[] = "sigpyme_corriendo";
        mutex = OpenMutex ( 0, false, mutexname);
        if (mutex == NULL)
            mutex = CreateMutex(NULL, true, mutexname);
        else
        {
            ShowMessage("La aplicación ya está abierta");
            return 0;
        }

        Application->Initialize();
        //fsplash = new Tf splash(Application);
        //fsplash->Show();
        //fsplash->Update();
        Application->CreateForm(__classid(Tfprincipal), &fprincipal);
        Application->CreateForm(__classid(Tfeditar_campo_cita), &feditar_campo_cita);
        Application->CreateForm(__classid(Tfnueva_cita), &fnueva_cita);
        Application->CreateForm(__classid(Tfmodificar_cita), &fmodificar_cita);
        Application->CreateForm(__classid(Tfacercade), &facercade);
        Application->CreateForm(__classid(Tfmodificar_tabla_clas), \
                                &fmodificar_tabla_clas);
        Application->CreateForm(__classid(Tfconfiguracion), &fconfiguracion);
        Application->CreateForm(__classid(Tfnavegar_clientes), &fnavegar_clientes);
        Application->CreateForm(__classid(TDataModuleBBDD), &DataModuleBBDD);
        Application->CreateForm(__classid(Tfconsulta), &fconsulta);
        Application->CreateForm(__classid(Tfcitas_hoy), &fcitas_hoy);
        Application->CreateForm(__classid(Tfbuscar_cita), &fbuscar_cita);
        Application->CreateForm(__classid(Tfinformes), &finformes);
        Application->CreateForm(__classid(Tfinformes_citas), &finformes_citas);
        Application->CreateForm(__classid(Tfinforme_consulta_clientes), \
                                &finforme_consulta_clientes);
        Application->CreateForm(__classid(Tfinforme_consulta_citas), \
                                &finforme_consulta_citas);
        Application->CreateForm(__classid(Tfinforme_citas_hoy), &finforme_citas_hoy);
        Application->Run();
    }
}
```

```
        catch (Exception &exception)
        {
            Application->ShowException(&exception);
        }
        ReleaseMutex( mutex);
        return 0;
    }
    //-----
```