Delphi Programming Diary - Jitendra Kumar

Delphi! is my art of programming...This blog contains technical solutions and tips for Delphi programming. I am just trying to share knowledges that I gained from others and which will help others. (Delphi Tokyo/XE7/ XE6 / XE5 / XE4 / XE3 / XE2 / XE, FireMonkey, FireDAC, DataSnap, QuickReport, DevExpress, Woll2Woll, TMS Components, Indy, REMObjects SDK....)

Create or Design reports with Groups in Fortes Report

- June 24, 2018

In my last blog (Create or Design master detail report with Fortes Report) I have explained how to design a master detail report with using Fortes Report and its components. Now here in this blog I will show how to design grouping report with Fortes Report to show Customer and their orders with Customer No. as group. And for more detail about Fortes Report please visit Fortes Report and Components.

Here I have created a project which contains report to show Customer details and you can download the sample DB from link download dbdemos.db. I have saved the DB in C:\Test folder.

So now lets design Customer Order detail report with Grouping as Customer No using Fortes Report components.

1. First create a project and add a form to the project lets say Unit1 (Form1).

2. Add a TADOConnection component to the form named connmain and set connection string.

```
ConnectionString = 'Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=C:\test\demos.mdb;Persist Security Info=False'
LoginPrompt = False
Provider = 'Microsoft.Jet.OLEDB.4.0'
```

3. Add 2 TADOQuery component to form named qrymaster and set

```
Qrymaster.Connection = connmain
```

4. Add 2 TADODatasource component to form named srcmaster, srcdetail and set

```
srcmaster.Dataset = qrymaster
```

5. Add a TRLExpressionbar component to form to use Dataformula property for report components

6. Add TRLReport component to form named RLReport1 which is main report component and set following porperties

```
DataSource = srcmaster
Title = 'CUSTOMER GROUP REPORT'
ExpressionParser = RLExpressionParser1
```

7. Put TRLBand component on RLReport1 named RLBand1 for header and set following properties

```
BandType = btHeader
Borders.DrawBottom = True
```

8. Put following components on header band RLBand1 and set following properties

```
RLLabel1: TRLLabel
  Left = 217
  Top = 0
  Width = 284
  Height = 32
  Align = faCenterTop
  Alignment = taCenter
  Caption = 'CUSTOMER ORDER GROUP REPORT'
  Font.Height = -27
  Font.Style = [fsUnderline]
  ParentFont = False

RLSystemInfo1: TRLSystemInfo
  Left = 631
  Top = 0
```

```
  Width = 87
  Height = 16
  Align = faRightTop
  Alignment = taRightJustify
  Info = itPageNumber
  Text = ''

 RLSystemInfo2: TRLSystemInfo
  Left = 0
  Top = 0
  Width = 60
  Height = 16
  Align = faLeftTop
  Info = itFullDate
  Text = ''
```

9. Add another TRLBand component named RLband2 and set as footer band

```
 BandType = btFooter
 Borders.DrawTop = True
```

10. Add following components to footer band RLBand2 and set following properties

```
RLLabel5: TRLLabel
 Left = 298
 Top = 24
 Width = 121
 Height = 16
 Align = faCenterBottom

 Caption = 'DIGITAL SIGNED....'
```

11. Add TRLGroup band component named RLGroup1 and set following properties. And set **DataFields** property to CUSTNO for grouping as per Customer No. field value.

```
RLGroup1: TRLGroup
 Left = 38
```

```
Top = 81
Width = 718
Height = 106
DataFields = 'CUSTNO'
FooterMeasuring = fmBeforeDetail
```

As Fortes report is based on bands so here we have to put a Header, Detail and Footer band in Group band to print data.

12. Now put a TRLBand component in RLGroup1 as header and name RLBand3

```
RLBand3: TRLBand
  Left = 0
  Top = 0
  Width = 718
  Height = 25
  BandType = btHeader
  Color = cl3DLight
  Font.Height = -13
  Font.Style = [fsBold]
  ParentColor = False
  ParentFont = False
  Transparent = False
```

13. Put following components in RLBand3 and set properties

```
  RLLabel3: TRLLabel
    Left = 16
    Top = 6
    Width = 112
    Height = 16
    Caption = 'CUSTOMER NO. :'
    Transparent = False

  RLDBText1: TRLDBText
    Left = 135
    Top = 6
    Width = 58
    Height = 16
```

```
DataField = 'CUSTNO'
DataSource = srcmaster
Text = ''
Transparent = False
```

14. Now put another TRLBand component in RLGroup1 as column header and name RLBand4

```
RLBand4: TRLBand
  Left = 0
  Top = 25
  Width = 718
  Height = 24
  BandType = btColumnHeader
  Font.Charset = DEFAULT_CHARSET
  Font.Color = clBlack
  Font.Height = -13
  Font.Name = 'Arial'
  Font.Style = [fsBold]
  ParentFont = False
```

15. Put following components in RLBand4 and set properties

```
  RLLabel4: TRLLabel
    Left = 16
    Top = 6
    Width = 76
    Height = 16
    Caption = 'ORDER NO.'

  RLLabel5: TRLLabel
    Left = 116
    Top = 6
    Width = 85
    Height = 16
    Caption = 'SALES DATE'

  RLLabel6: TRLLabel
    Left = 217
```

```
  Top = 6
  Width = 73
  Height = 16
  Caption = 'SHIP DATE'

RLLabel7: TRLLabel
  Left = 305
  Top = 6
  Width = 61
  Height = 16
  Caption = 'SHIP VIA'

RLLabel8: TRLLabel
  Left = 377
  Top = 6
  Width = 87
  Height = 16
  Caption = 'PAYMENT BY'

RLLabel9: TRLLabel
  Left = 487
  Top = 5
  Width = 91
  Height = 16
  Alignment = taRightJustify
  Caption = 'ITEMS TOTAL'

RLLabel10: TRLLabel
  Left = 614
  Top = 5
  Width = 68
  Height = 16
  Alignment = taRightJustify
  Caption = 'TAX RATE'
```

16. Put another TRLBand component in RLGroup1 as detail and name RLBand5

```
RLBand5: TRLBand
Left = 0
```

Top = 49
Width = 718
Height = 24

17. Put following components in RLBand5 and set properties

RLDBText2: TRLDBText
Left = 16
Top = 3
Width = 69
Height = 16
DataField = 'ORDERNO'
DataSource = srcmaster
Text = ''

RLDBText3: TRLDBText
Left = 116
Top = 3
Width = 72
Height = 16
DataField = 'SALEDATE'
DataSource = srcmaster
Text = ''

RLDBText4: TRLDBText
Left = 217
Top = 3
Width = 68
Height = 16
DataField = 'SHIPDATE'
DataSource = srcmaster
Text = ''

RLDBText5: TRLDBText
Left = 305
Top = 3
Width = 55
Height = 16
DataField = 'SHIPVIA'

```
  DataSource = srcmaster
  Text = ''

 RLDBText6: TRLDBText
  Left = 377
  Top = 3
  Width = 122
  Height = 16
  DataField = 'PAYMENTMETHOD'
  DataSource = srcmaster
  Text = ''

 RLDBText7: TRLDBText
  Left = 495
  Top = 3
  Width = 83
  Height = 16
  Alignment = taRightJustify
  DataField = 'ITEMSTOTAL'
  DataSource = srcmaster
  DisplayMask = '0.00'
  Text = ''

 RLDBText8: TRLDBText
  Left = 621
  Top = 3
  Width = 61
  Height = 16
  Alignment = taRightJustify
  DataField = 'TAXRATE'
  DataSource = srcmaster
  DisplayMask = '0.00'
  Text = ''
```

18. Put another TRLBand component in RLGroup1 as footer and name RLBand6

```
BandType = btFooter
Font.Style = [fsBold]
```

19. Put following components in RLBand6 and set properties

```
RLLabel11: TRLLabel
  Left = 377
  Top = 2
  Width = 106
  Height = 16
  Caption = 'GROUP TOTAL :'

RLDBResult1: TRLDBResult
  Left = 450
  Top = 2
  Width = 128
  Height = 16
  Alignment = taRightJustify
  DataField = 'ITEMSTOTAL'
  DataSource = srcmaster
  DisplayMask = '0.00'
  Info = riSum
  ResetAfterPrint = True
  Text = ''

RLDBResult2: TRLDBResult
  Left = 577
  Top = 1
  Width = 105
  Height = 16
  Alignment = taRightJustify
  DataField = 'TAXRATE'
  DataSource = srcmaster
  DisplayMask = '0.00'
  Info = riSum
  ResetAfterPrint = True
  Text = ''
```

20. Put report filter components on form to save report in different format during preview

```
RLRichFilter1: TRLRichFilter;
```

```
RLPDFFilter1: TRLPDFFilter;
RLXLSFilter1: TRLXLSFilter;
RLHTMLFilter1: TRLHTMLFilter;
```

21. Now Customer Order Report design is ready and add codes to show report. Here I have added a procedure ShowReport to Form1 to preview report.

```
procedure TForm1.ShowReport;
begin
 srcmaster.DataSet := qrymaster;
 qrymaster.Connection := Form1.ADOConnection1;
 qrymaster.SQL.Clear;
 qrymaster.SQL.Text := 'SELECT * FROM ORDERS ORDER BY CUSTNO';
 qrymaster.Open;
 srcmaster.DataSet := qrymaster;

 RLReport1.PreviewModal;

 Close;
end;
```

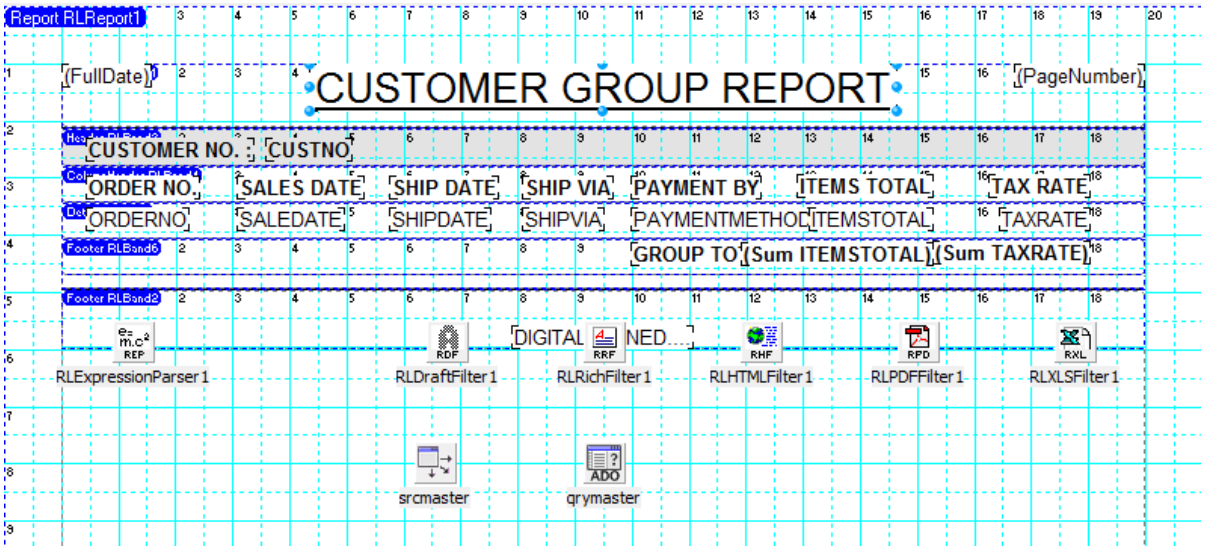
22. Now I will add another form to the same project and will set that as main form. Then on a button click I will show the report.

So add a new form Form2 and put a TButton component name Customer1 on that form. And on button click write following code.

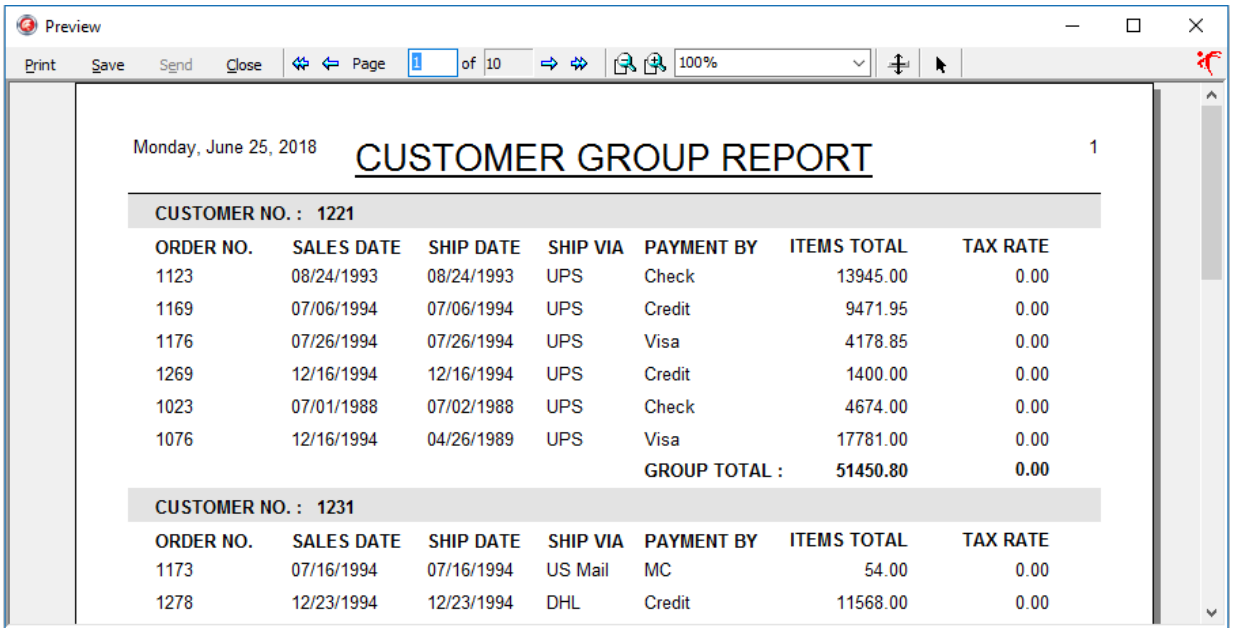
```
uses
  Form1;
 ......
 ......
procedure TForm2.Customer1Click(Sender: TObject);
begin
 Form1 := TForm1.Create(Self);

 Form1.ShowReport;
end;
```

Report design...



Report Preview...



Create or design simple master report with Fortes Report

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Group report with Fores report. Grouping report with fortes report TRLGroup

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- *July 15, 2014*

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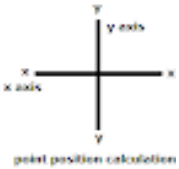
Drawing Shapes in Delphi

- *March 12, 2019*



Believe me, drawing shapes in Delphi is so easy. To develop a software like CAD, Paint, CorelDraw Delphi provides large number of classes and members that supports to draw shapes on a form or on a grap ...

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MS Excel Automation in Delphi

- *February 02, 2018*

In this blog I will describe how to read and write data from and to an Excel file. Sometime in our application we use Excel for reporting purpose, for data import / export purpose and for other works. So here I will explain how to access an Excel file and use for data re ...

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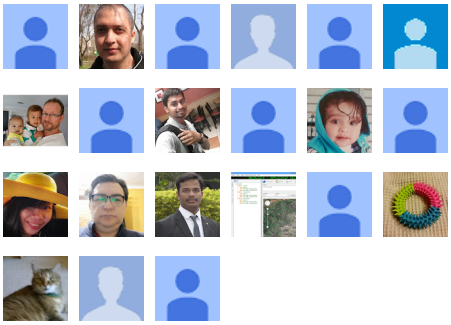

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