Software Engineering Lab

Crystal Reports - Part2

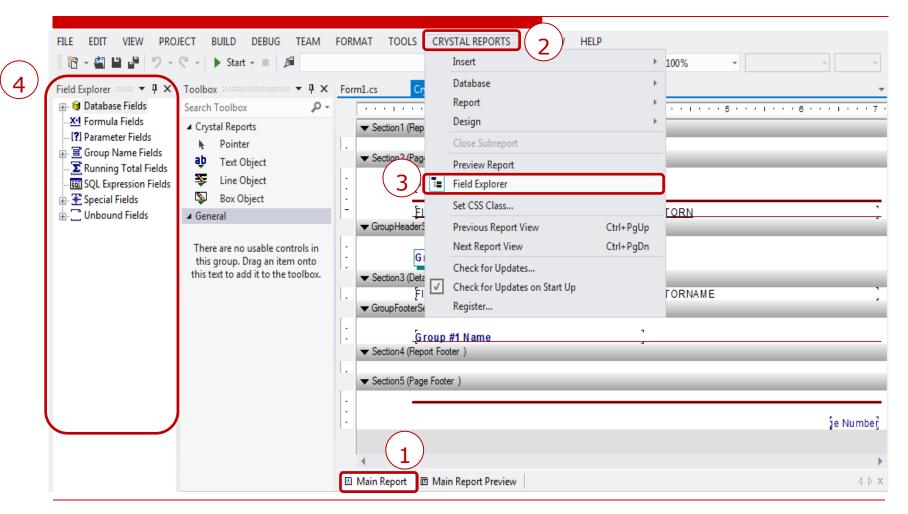
Agenda

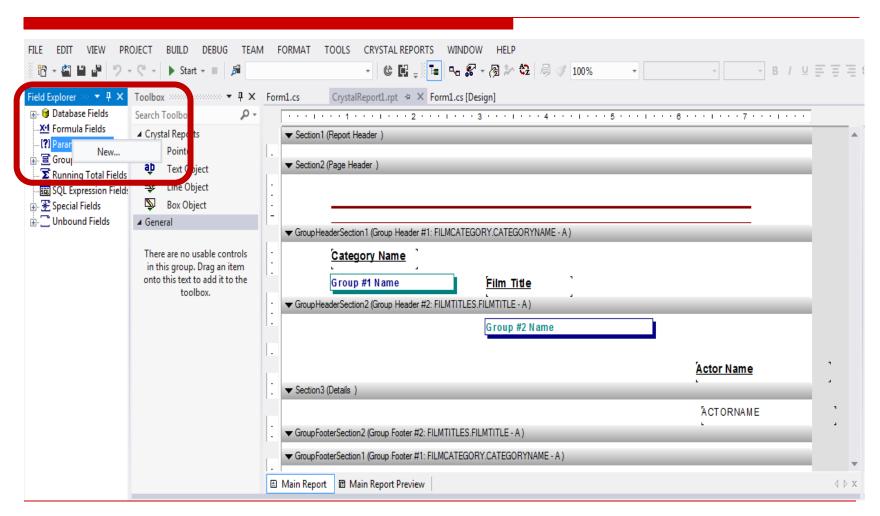
- Crystal Reports with Parameters
- Date to Date Crystal Reports
- Passing Parameter Values From C# Form To The Crystal Report
- Adding Formula to Crystal Reports
- Adding Summary Field to the Report Footer

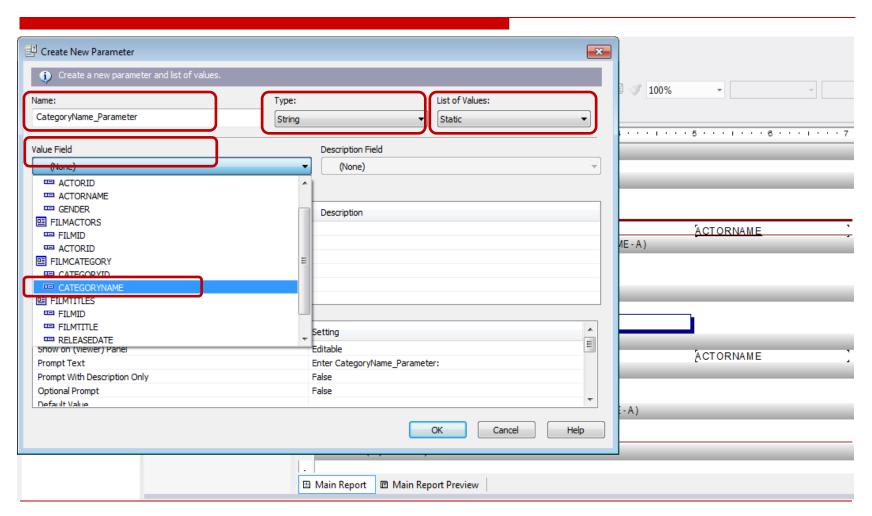
Crystal Reportswith Parameters

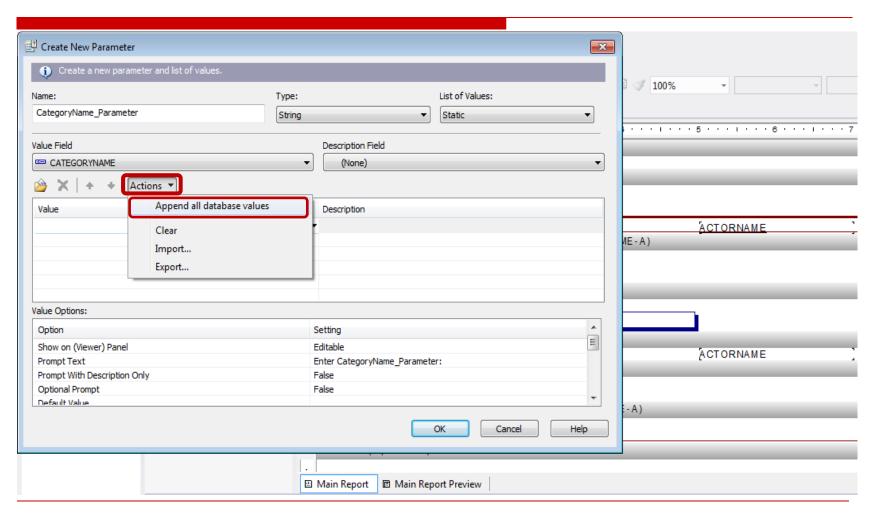
Crystal Reports with parameters

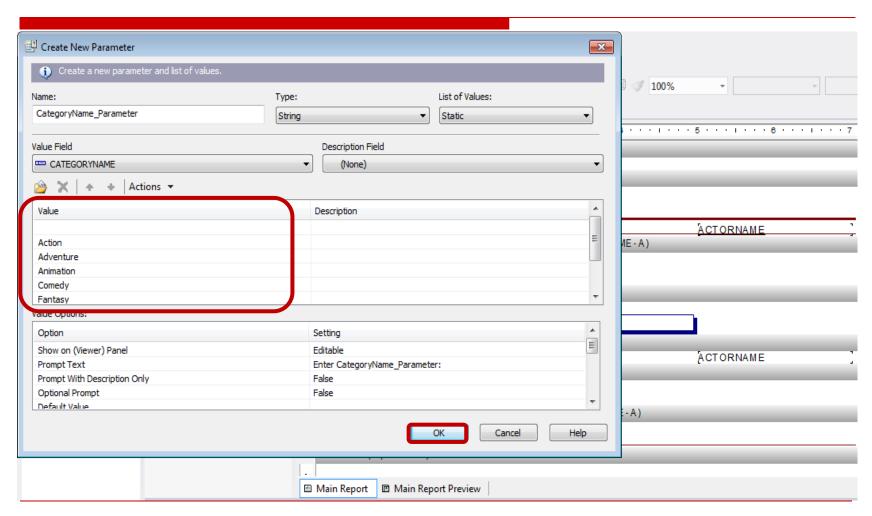
- Pass a Category Name as a string parameter to get a report that displays the names of all the movies for this Category Name and the names of the actors for these movies.
- To create a new parameter in Crystal report designer window.
 - Open the Main Report tab then Select the Field Explorer from Crystal Report Menu.











Name

The parameter name which will be linked to a table column to filter the report data.

Type

- Parameter data type
- It must match the data type of the column that will be linked to the parameter to filter the data

List of values

- Add a pre-defined list of values to the parameter so that user can choose among these values
- Static means the values in the list will never change.

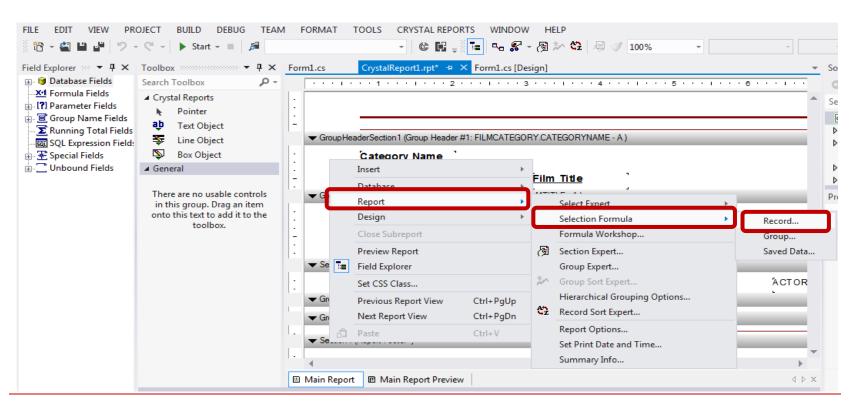
Value field

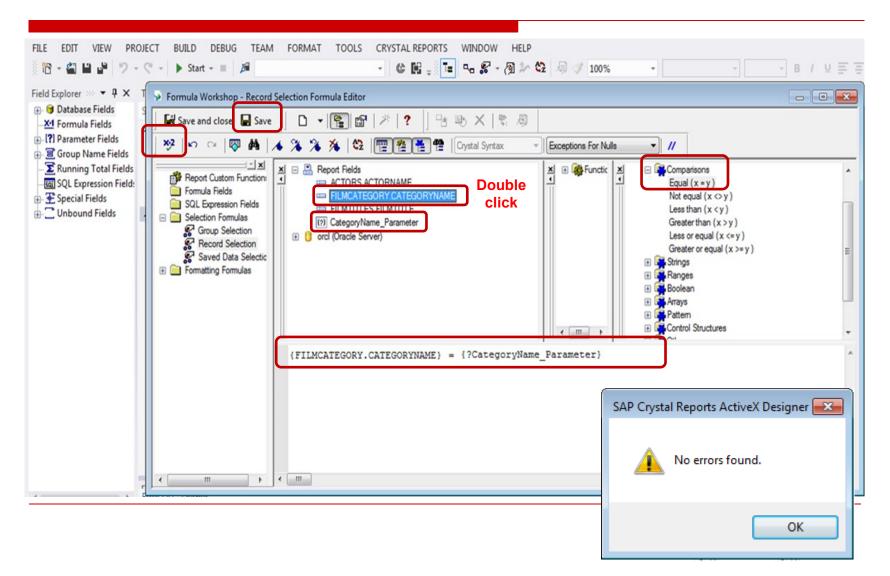
Fill the list with a set of values found in a certain column in the database

Append all database values

 Add all values which exist currently in the selected column to the list of values of the parameter

□ After creating the parameter, it should be linked to a database column in a condition to filter the report data





Date to Date Crystal Reports

Date to Date Crystal Reports

Pass Start Date, End Date and Category Name parameters to get a report that displays the names of all the movies for the selected category name whose Release Date is between the Start Date parameter and the End Date

parameter and the names of the actors for these movies.

FilmID

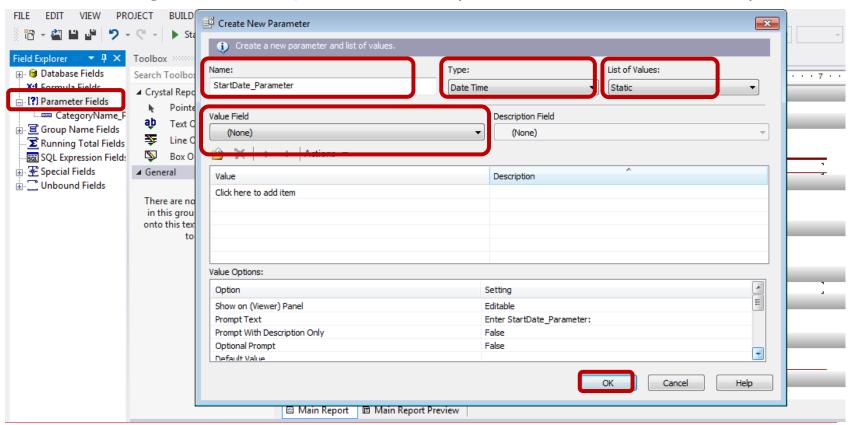
FilmTitle

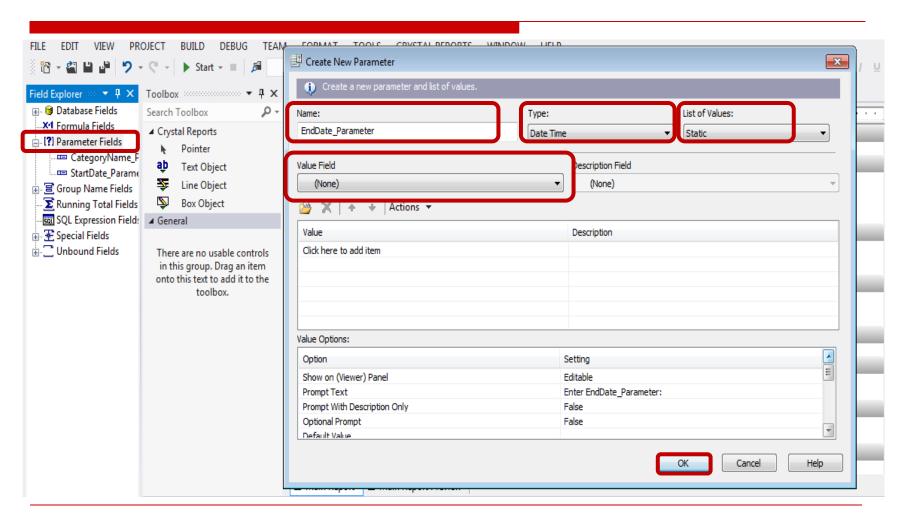
ReleaseDate

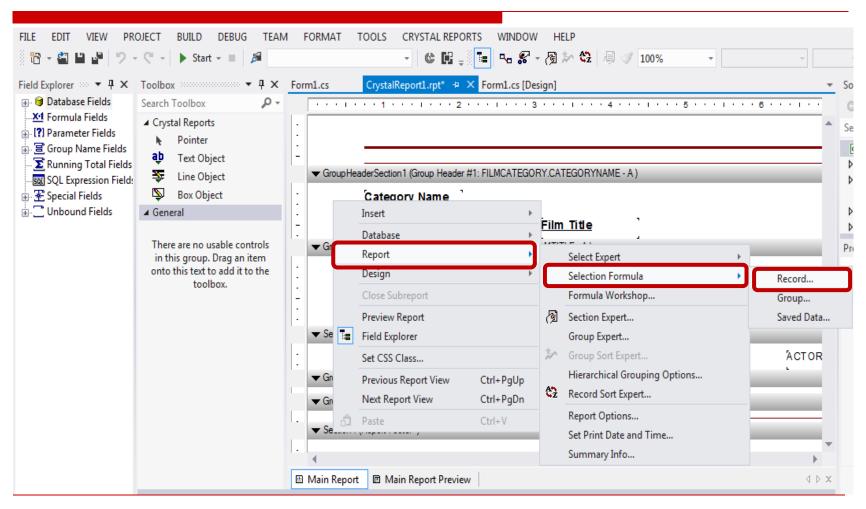
FilmDuration

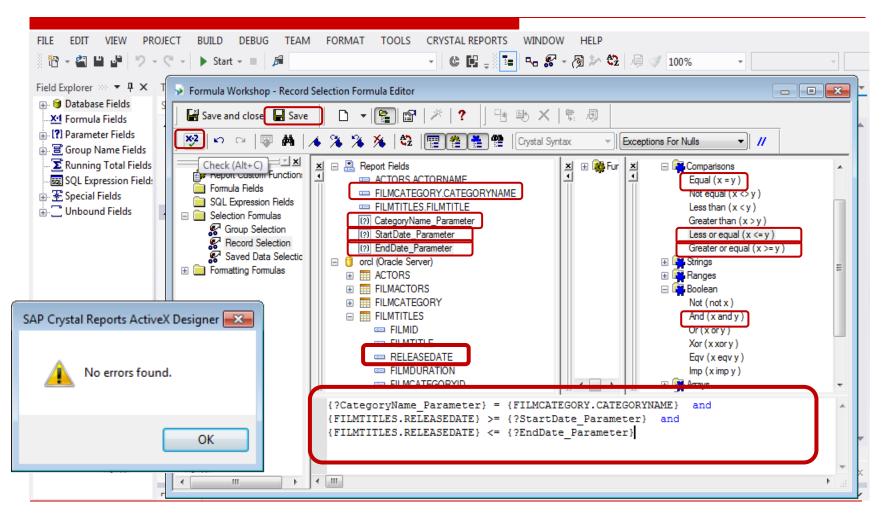
FilmCategoryID

Creating two date parameters (date from and date to).

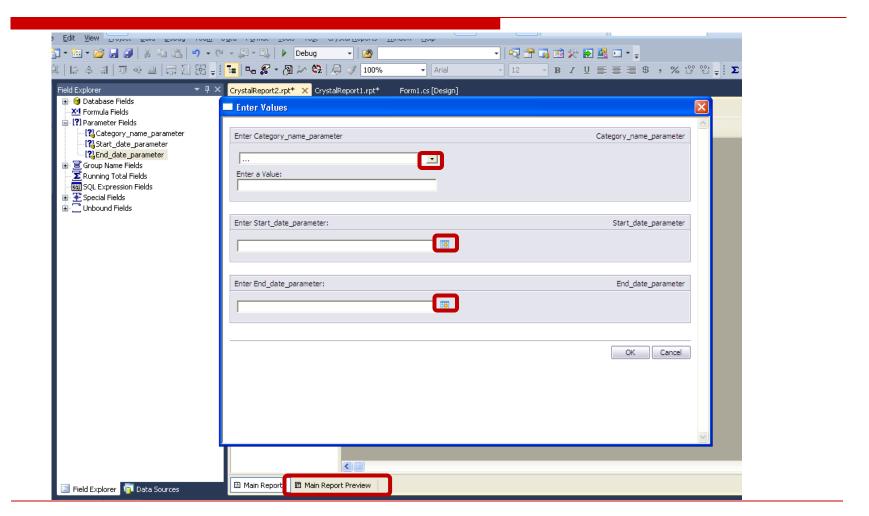


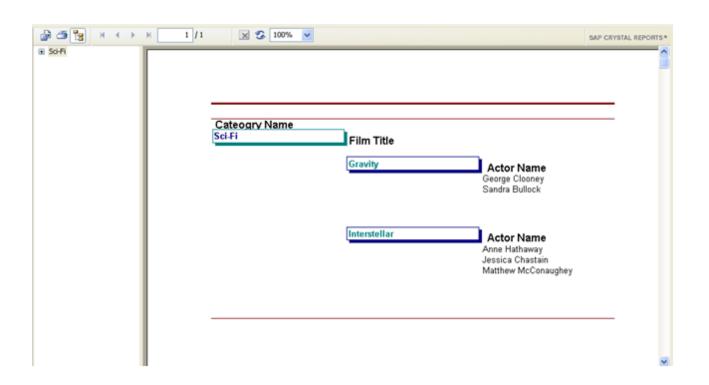




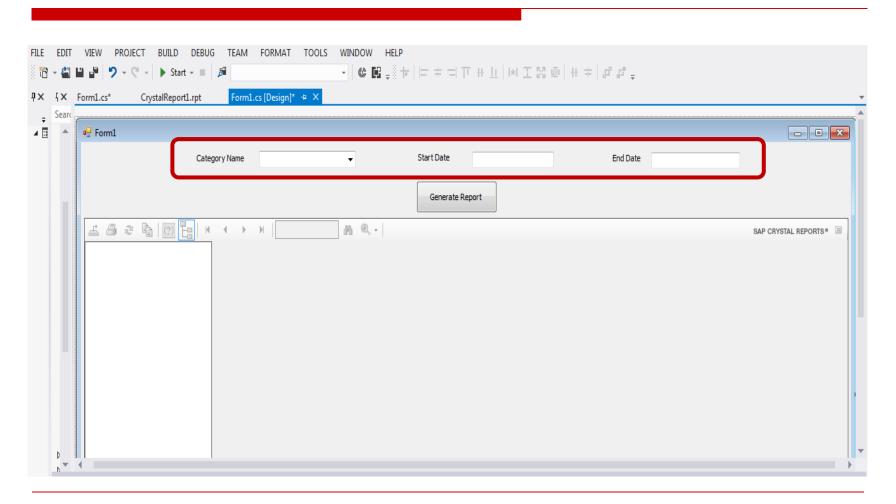


Crystal reports with parameters





Passing Parameter Values From C# Form to the Crystal Report



```
Form1.cs* + X CrystalReport1.rpt*

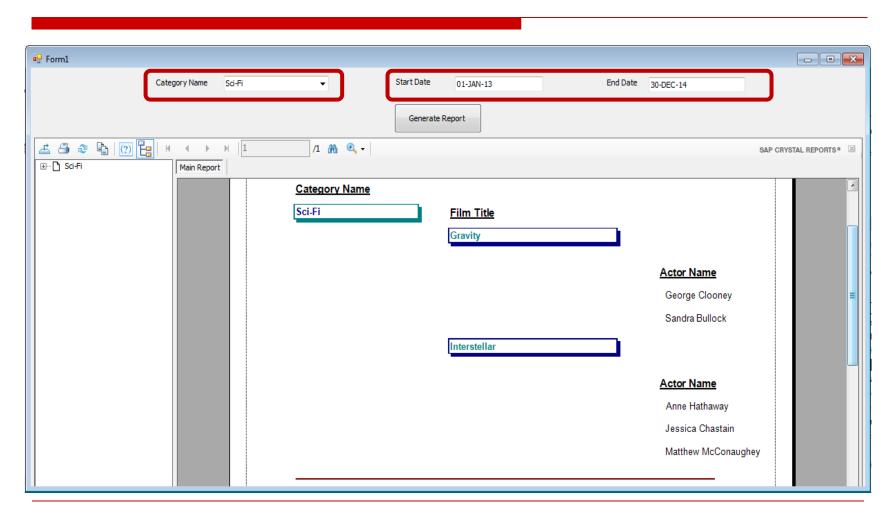
▼ Porm1_Load(object sender, EventArgs e)

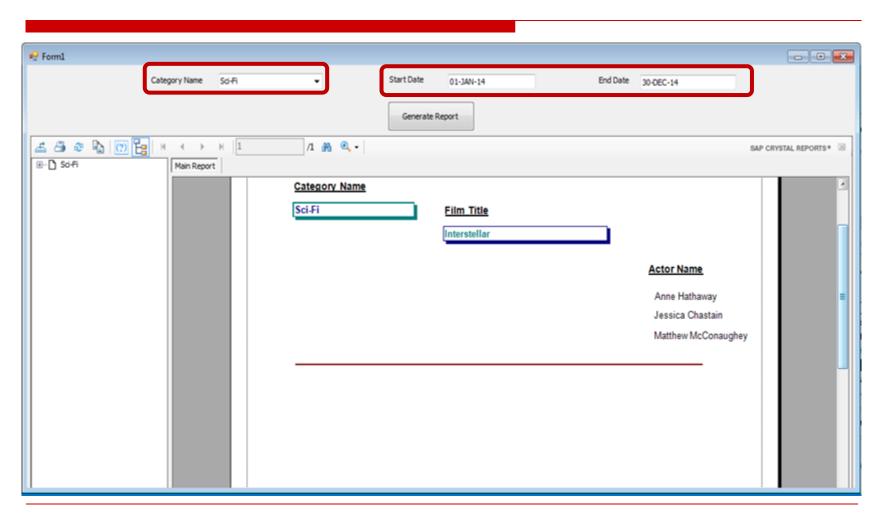
CrystalReports_Lab1.Form1
   using System.Windows.Forms;
   using CrystalDecisions.Shared;
  □namespace CrystalReports Lab1
        public partial class Form1 : Form
            CrystalReport1 CR;
            public Form1()
                 InitializeComponent();
             private void Form1 Load(object sender, EventArgs e)
                 CR = new CrystalReport1();
```

```
Form1.cs* + X CrystalReport1.rpt
                           Form1.cs [Design]*
CrystalReports Lab1.Form1

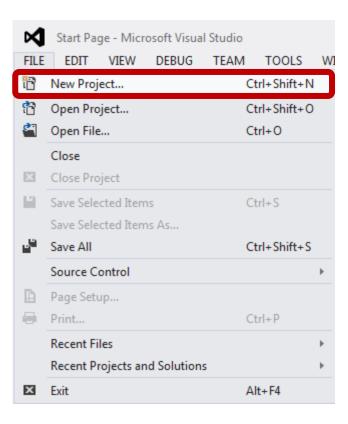
    → GenerateReport_btn_Click(object sender, EventArgs e)

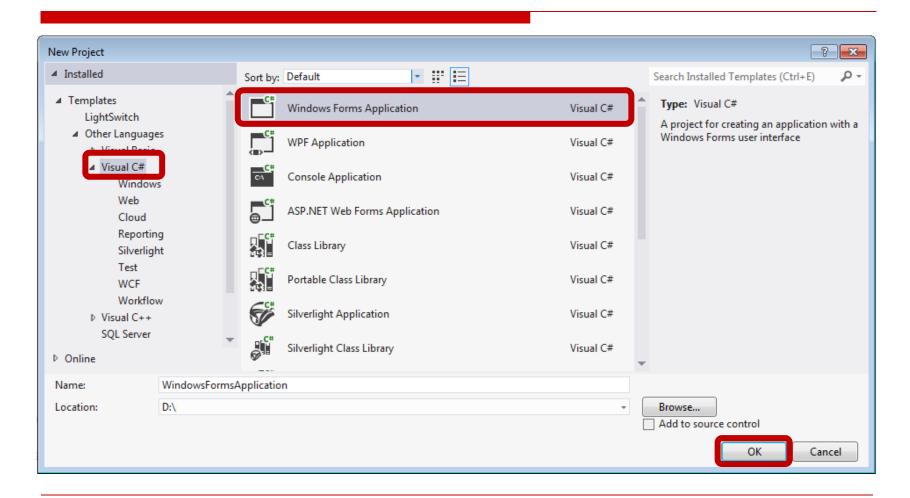
                 InitializeComponent();
             private void Form1 Load(object sender, EventArgs e)
                 CR = new CrystalReport1();
                 foreach (ParameterDiscreteValue v in CR.ParameterFields[0].DefaultValues)
                     Category cmb.Items.Add(v.Value);
             private void GenerateReport btn Click(object sender, EventArgs e)
                CR.SetParameterValue(0, Category_cmb.Text);
                CR.SetParameterValue(1, StartDate txt.Text);
                CR.SetParameterValue(2, EndDate txt.Text);
                crystalReportViewer1.ReportSource = CR;
```

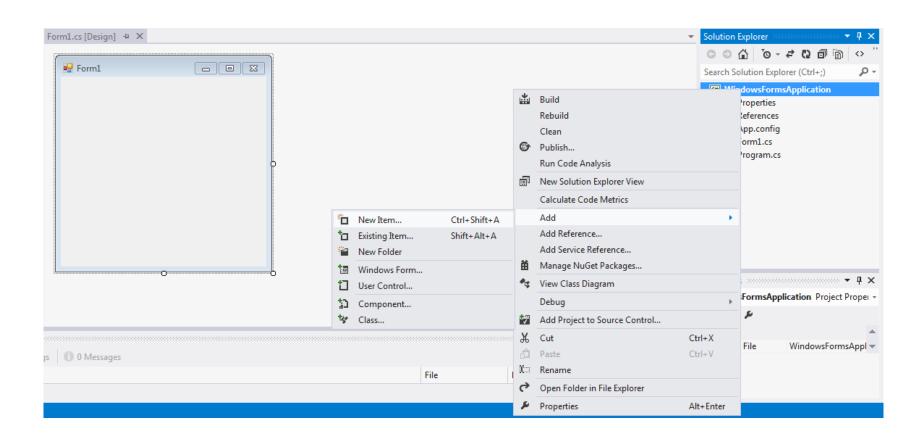


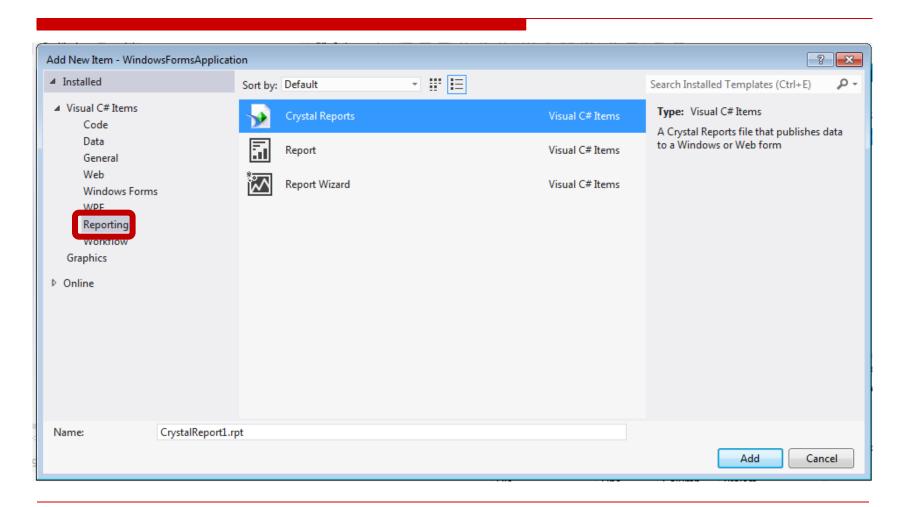


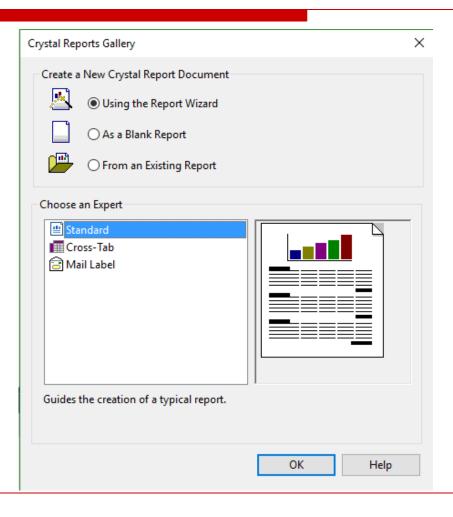
Adding Formula to Crystal Reports



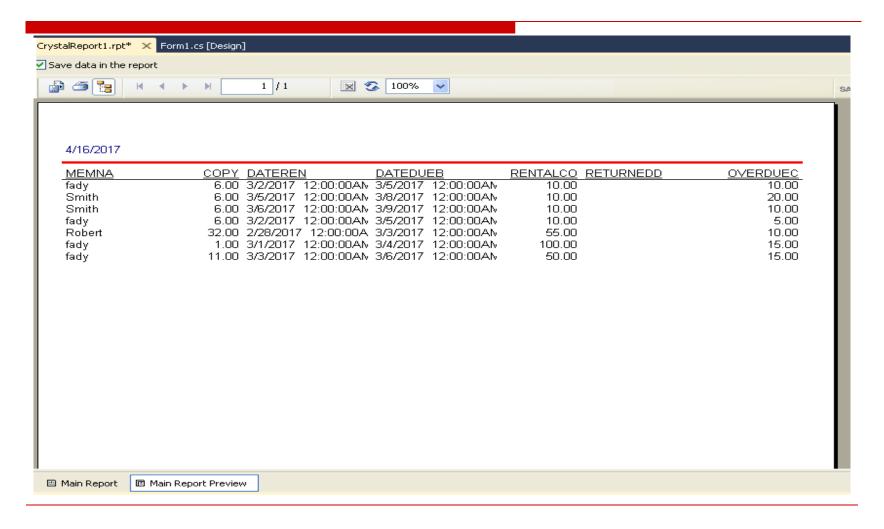


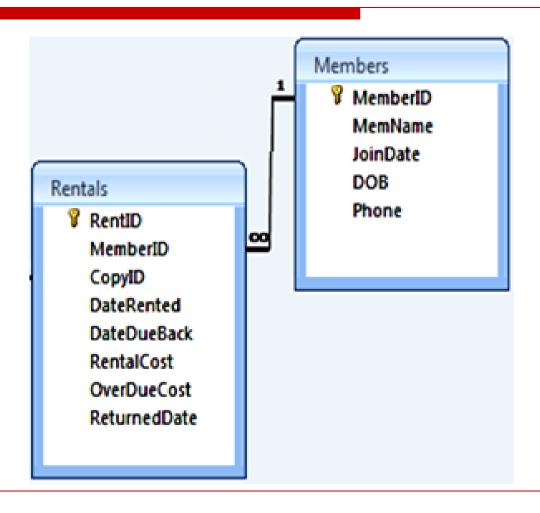






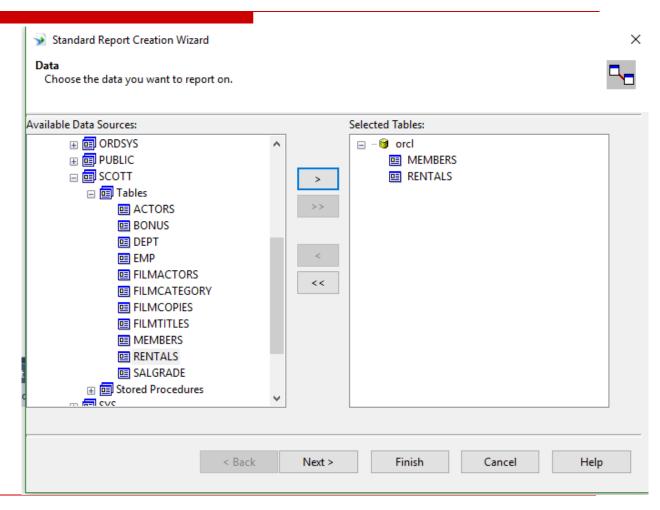
Standard Report Creation Wizard 1. Select orcl Oracle Server Choose the data y Connection Database Available Data Sources Project Data Service: orcl 2. Enter ☐ My Connection User ID: scott username scott □ Create New Co •••• Password: and OS Authentication: Password tiger < Back Next > Finish Cancel Help Output

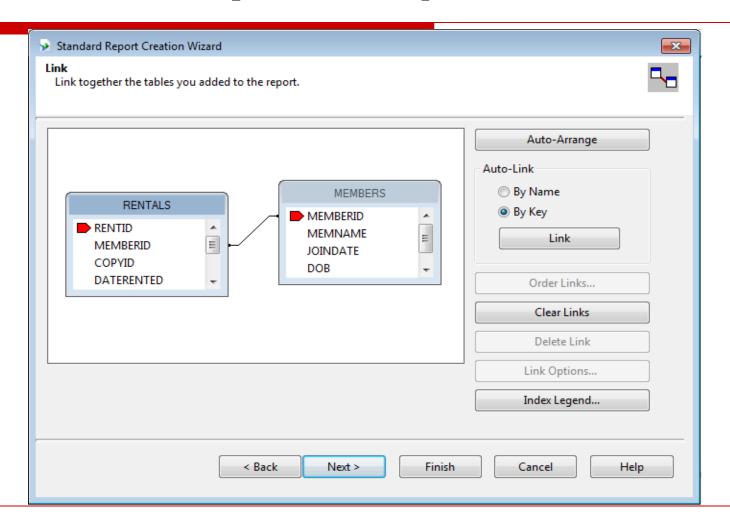




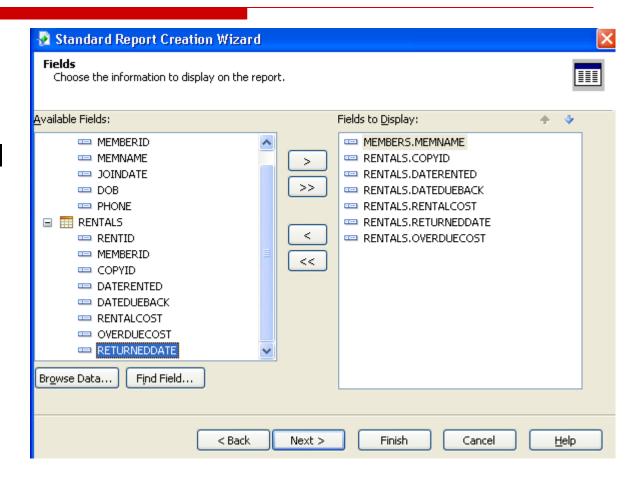
Select from scott schema tables

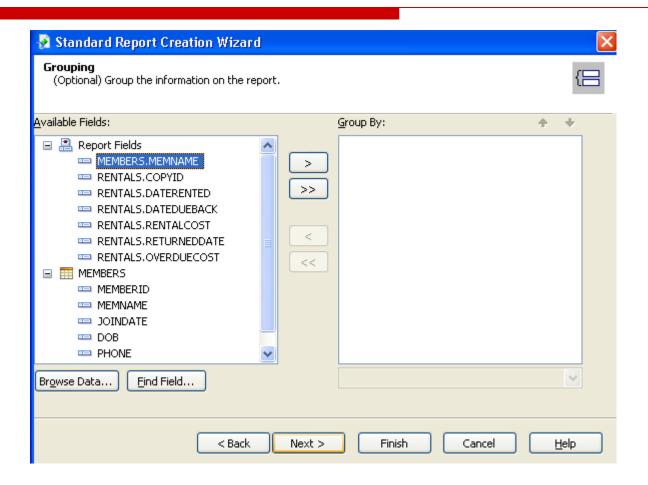
- 1. Members
- 2. Rentals

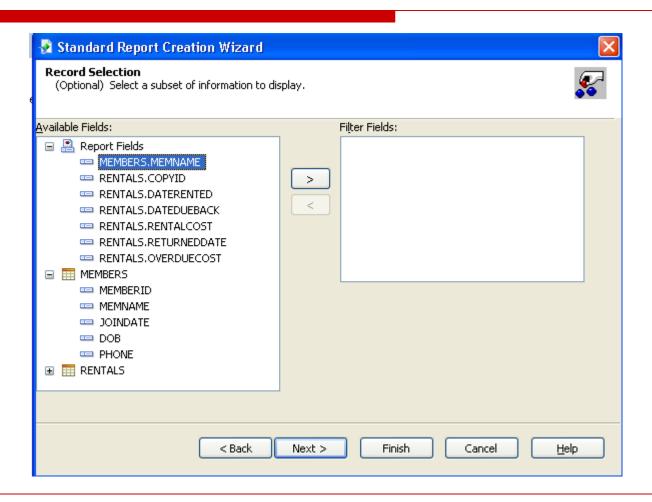


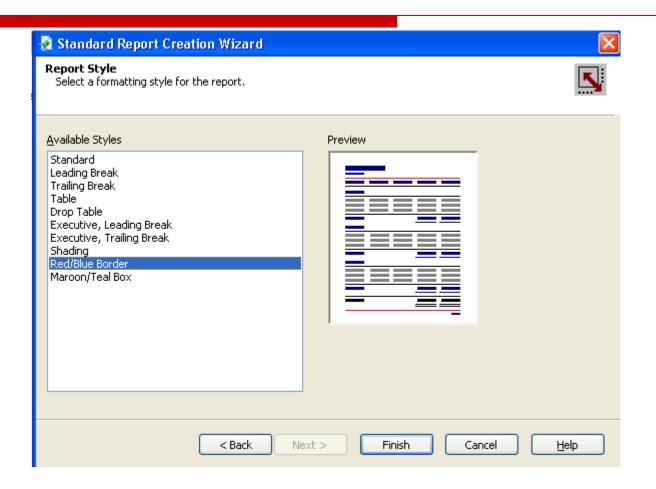


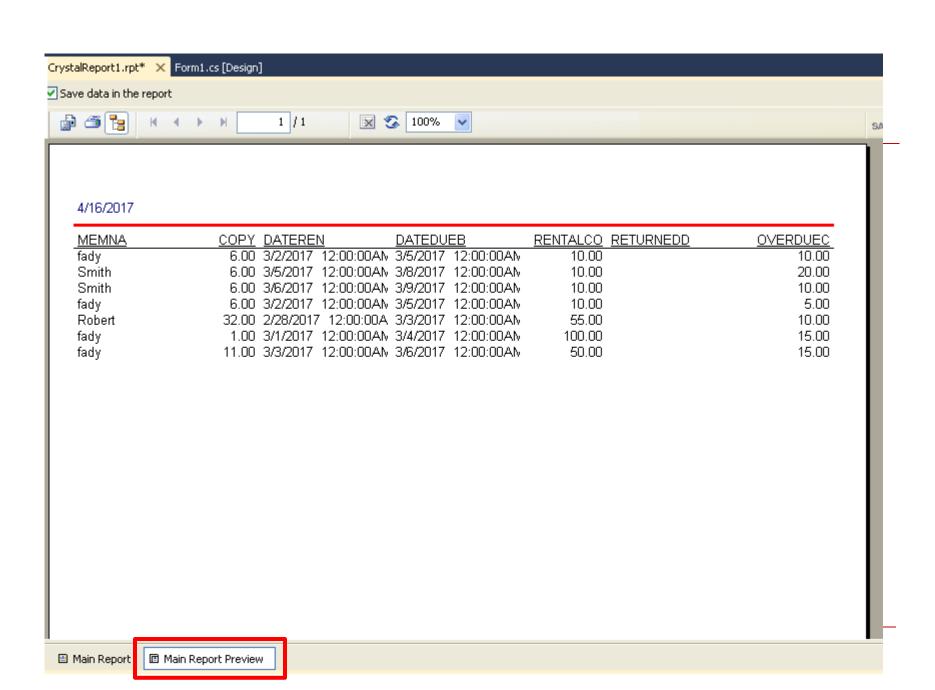
Choose fields to be shown in the crystal report





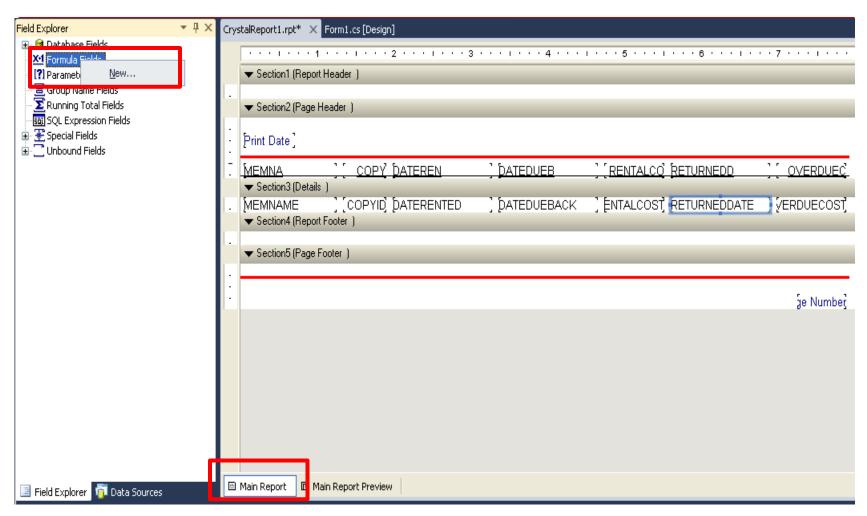




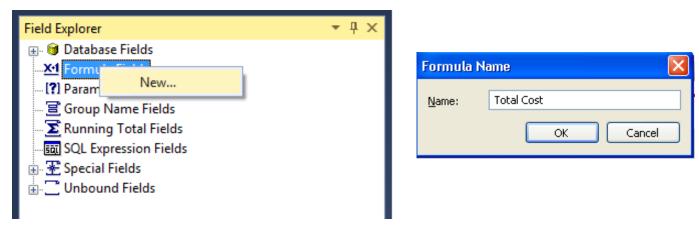


Add new formula in the report

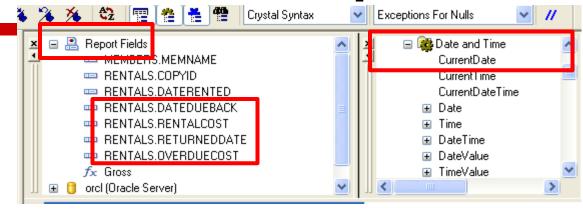
- The formula field in a Crystal report is a functionality provided to enhance computation of values dynamically during the display/printing of records in a report of an application.
- In the next example we will create a formula to calculate the Total Rental Cost for each Rental in the System.



 Add a new formula by right clicking the Formula Fields and choose new.



Write the name of your Formula:
Total cost

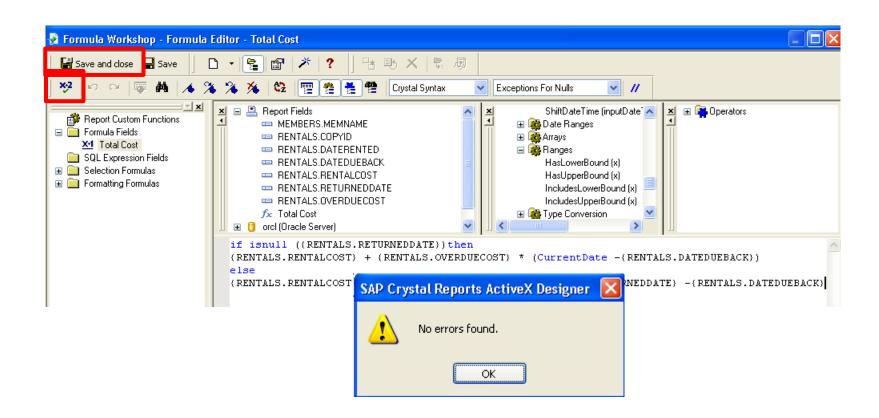


if isnull ({RENTALS.RETURNEDDATE}) then

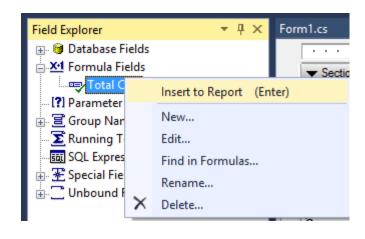
{RENTALS.RENTALCOST} + {RENTALS.OVERDUECOST} *
(CurrentDate - {RENTALS.DATEDUEBACK})

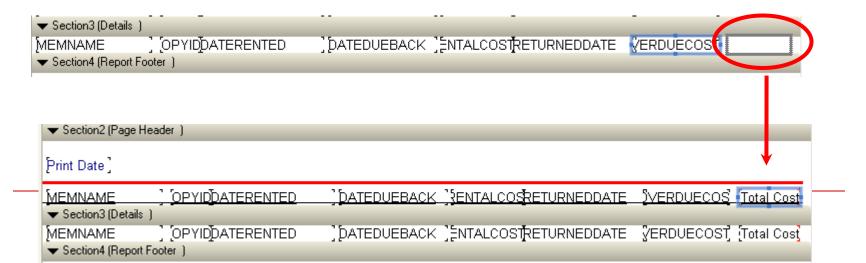
else

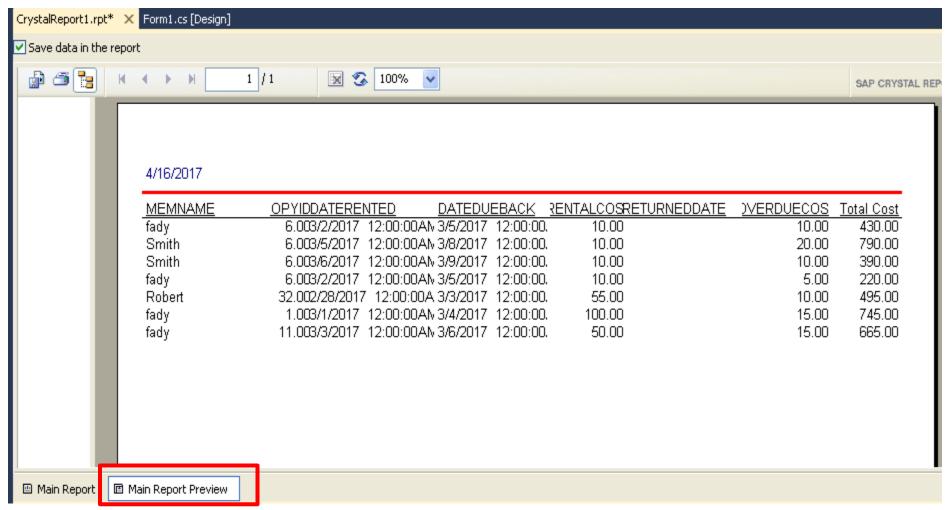
{RENTALS.RENTALCOST} + {RENTALS.OVERDUECOST} *
({RENTALS.RETURNEDDATE} - {RENTALS.DATEDUEBACK})



 To insert the formula in your report, right click on the Formula Field and choose insert, then drag the mouse to Section3 Details.



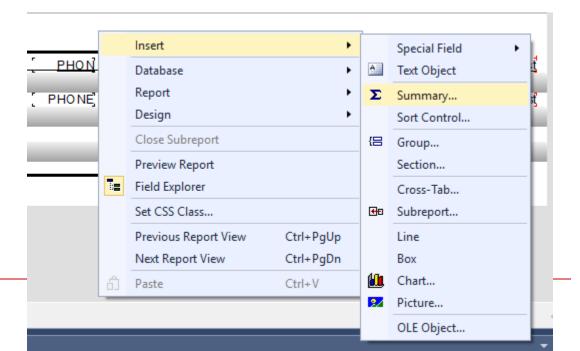




Adding Summary Field to the Report Footer

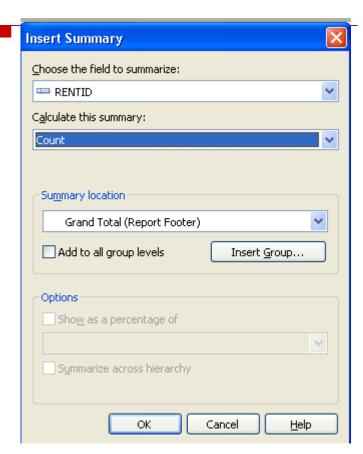
Add Summary Field for the Whole Report

 In the Crystal Reports designer view window, right click on the Report Footer, just below the Total field and select Insert -> Summary

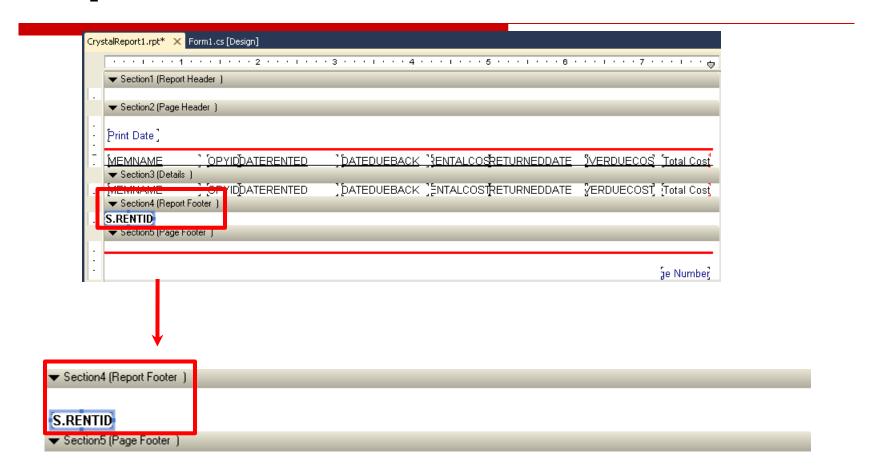


Add Summary Field for the Whole Report(cont'd)

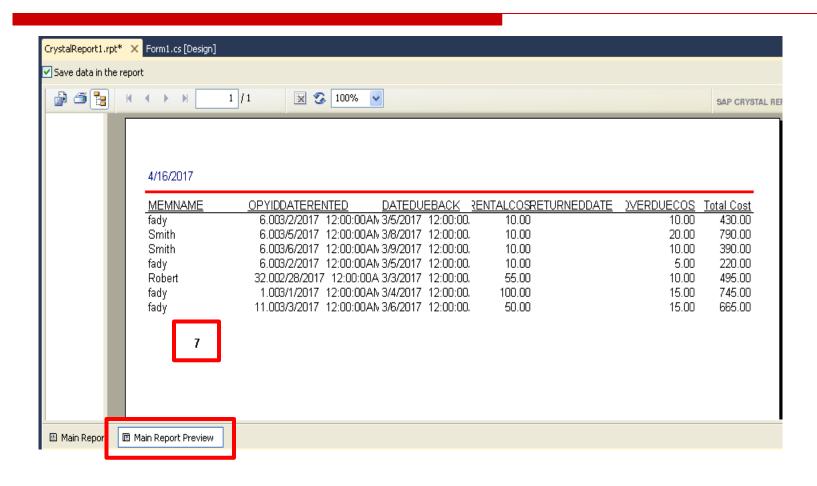
- Then you will get a screen, select the RentID from the combobox and select Count from next Combobox, and summary location Grand Total (Report Footer)
- Click Ok button



Add Summary Field for the Whole Report(cont'd)



Add Summary Field for the Whole Report(cont'd)



Thank You