Software Engineering Lab

Crystal Reports – Part1

Lab 5

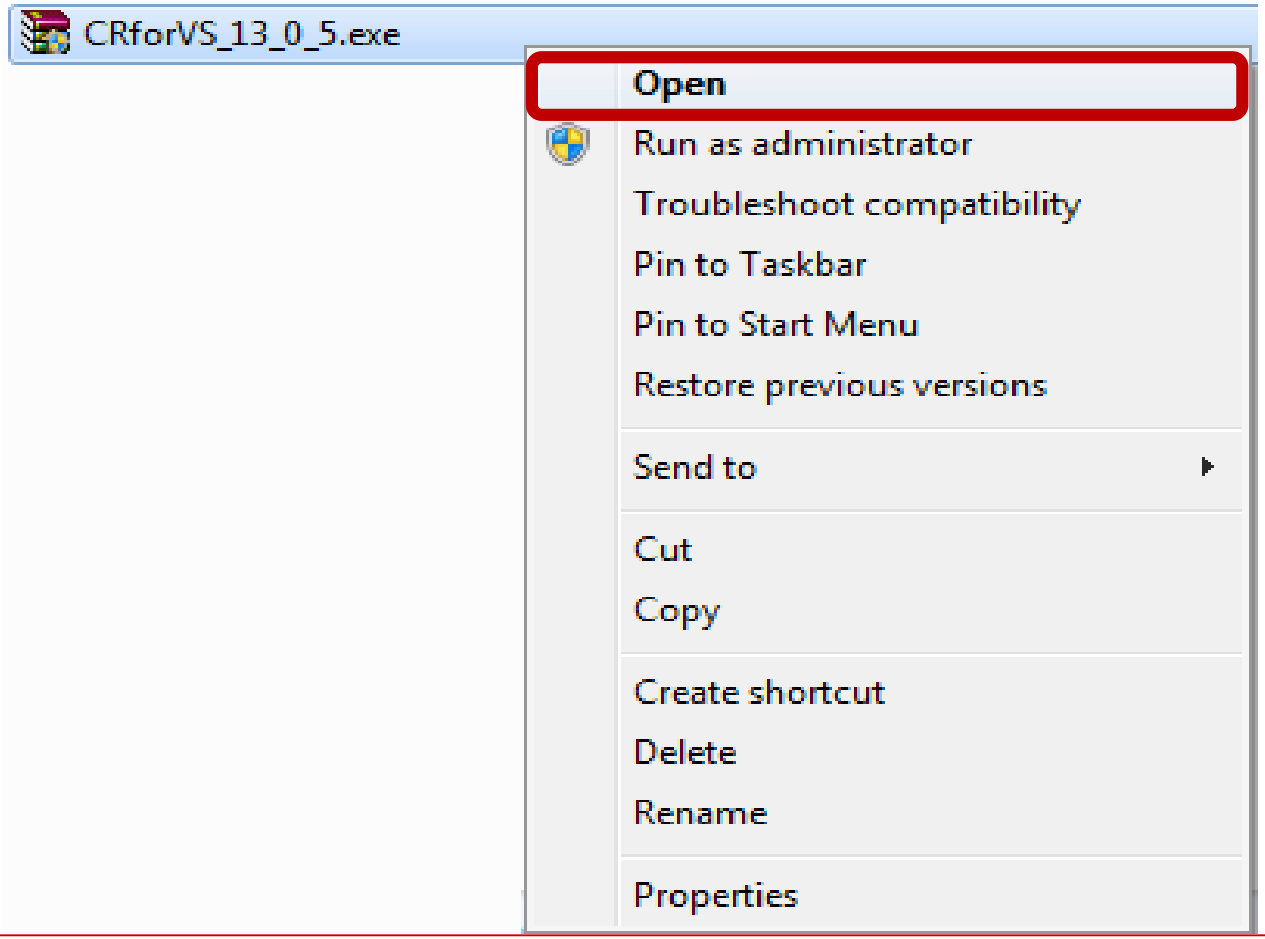
Agenda

- Introduction to Crystal Reports
- Crystal Reports Installation
- Crystal Reports Creation
- Calling Crystal Reports From C# Form

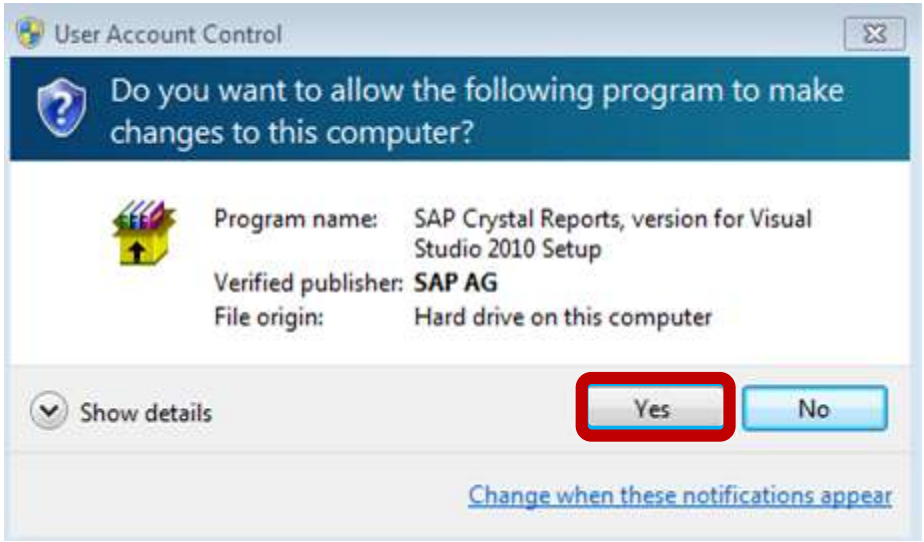
Introduction to Crystal Reports

- Crystal Report is a database reporting application used by many different types of businesses to generate accurate and powerful reports that assist in business decision making.
- It can access and analyze different types of data sources as Oracle, Microsoft SQL Server, etc.

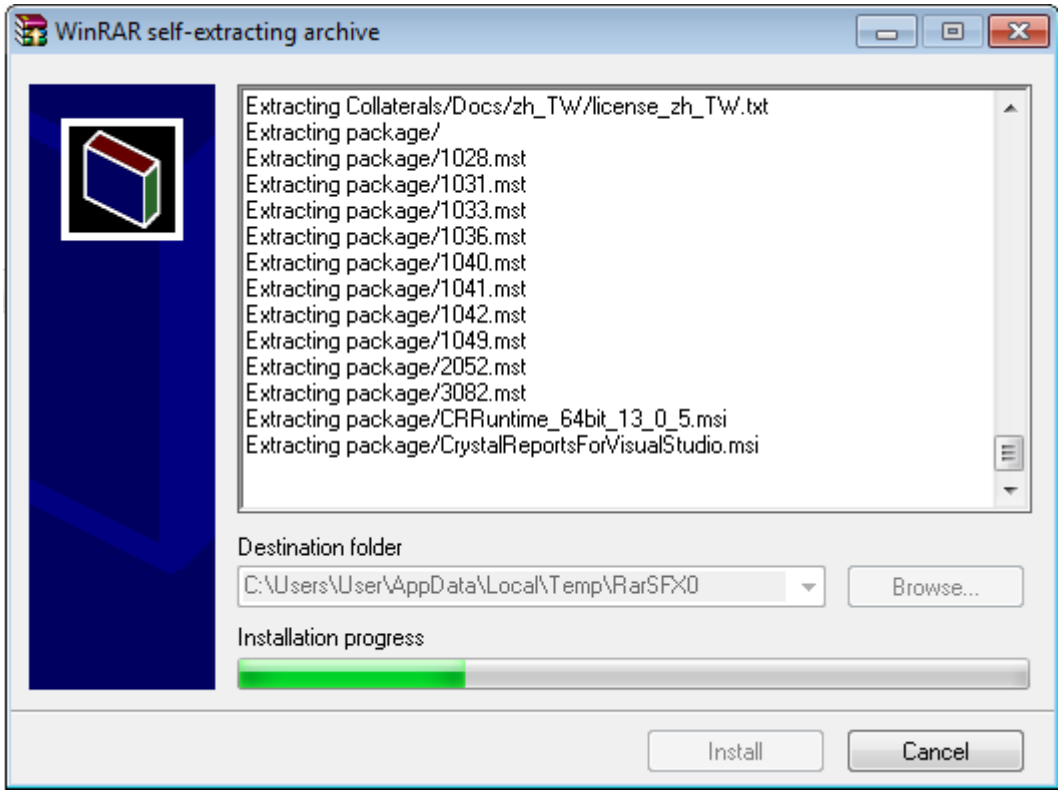
Crystal Reports Installation



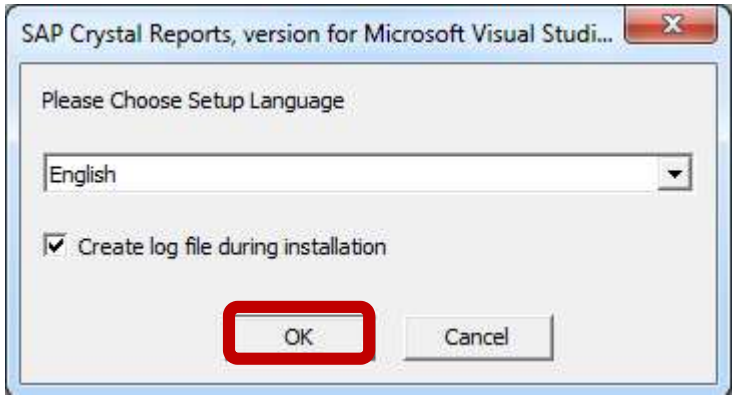
Crystal Reports Installation(cont'd)

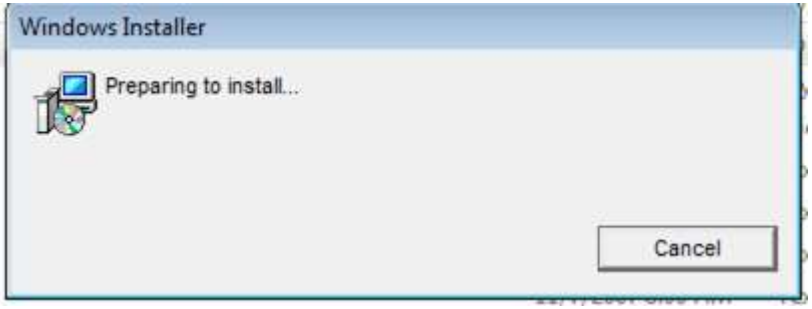


Crystal Reports Installation(cont'd)

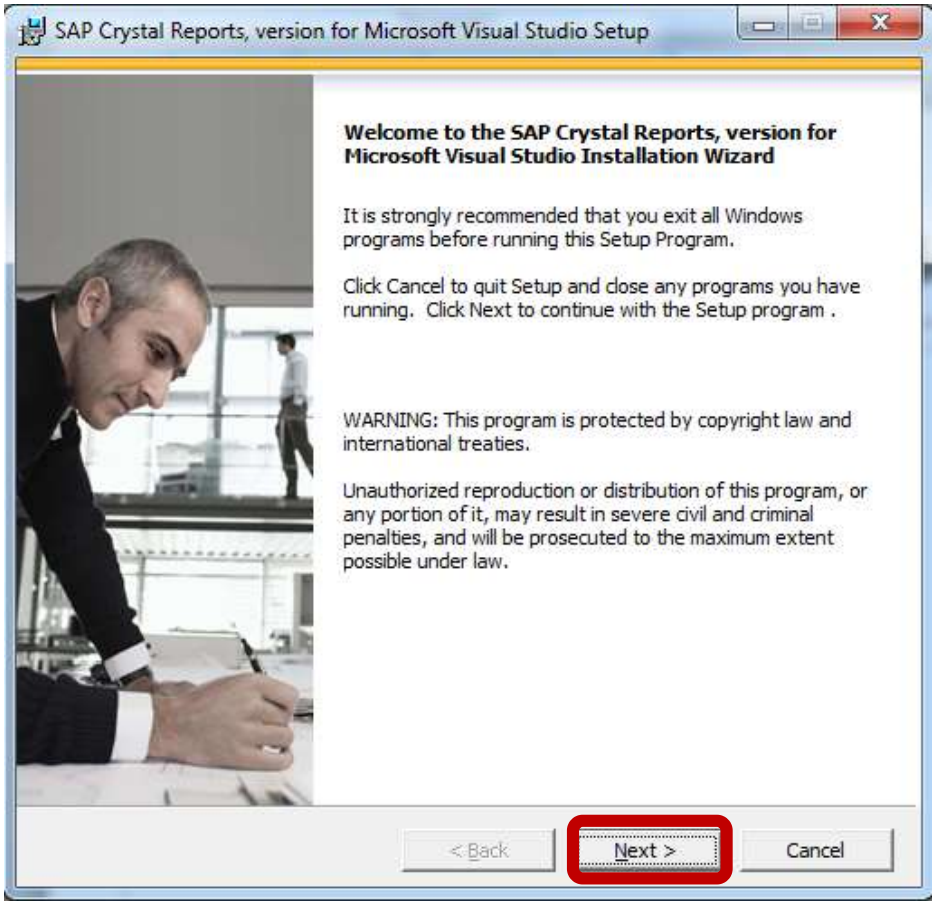


Crystal Reports Installation(cont'd)

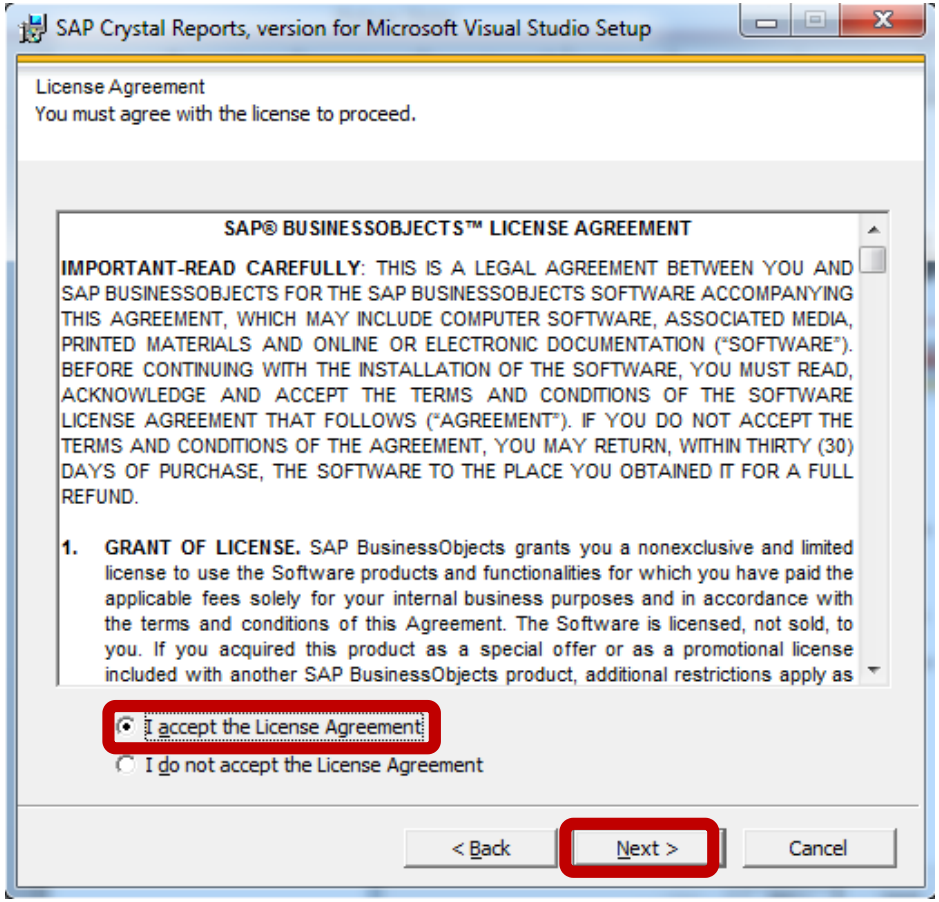




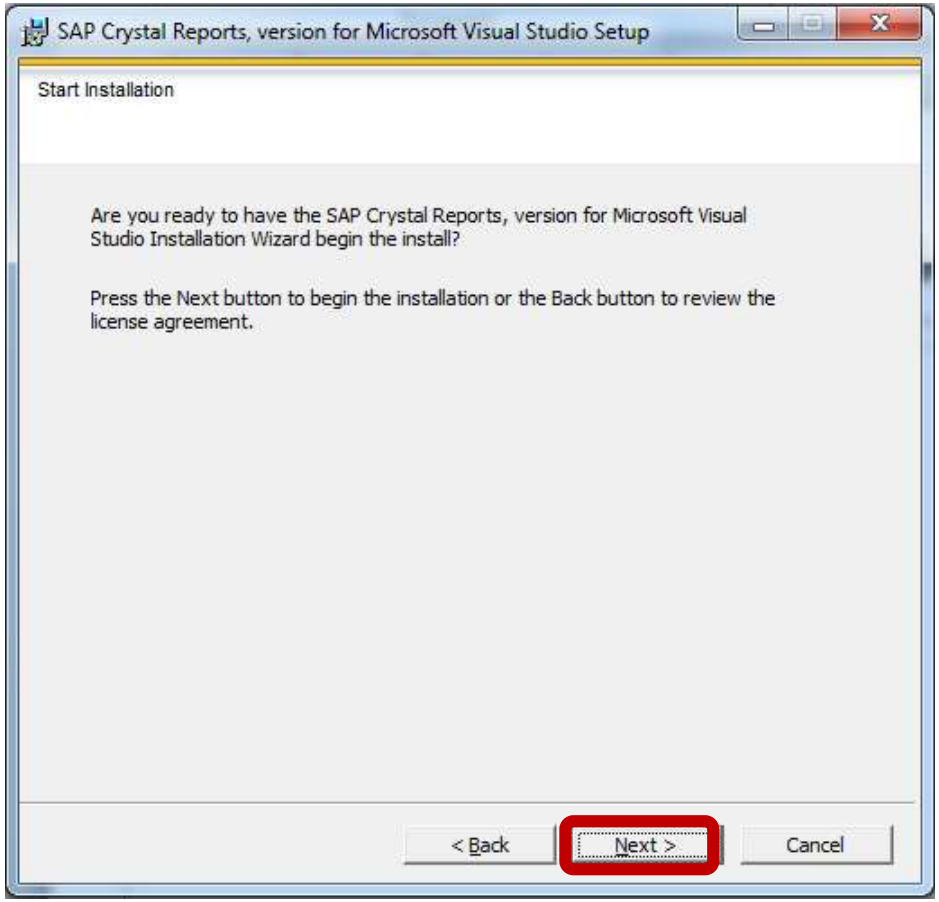
Crystal Reports Installation(cont'd)



Crystal Reports Installation(cont'd)



Crystal Reports Installation(cont'd)



Crystal Reports Installation(cont'd)

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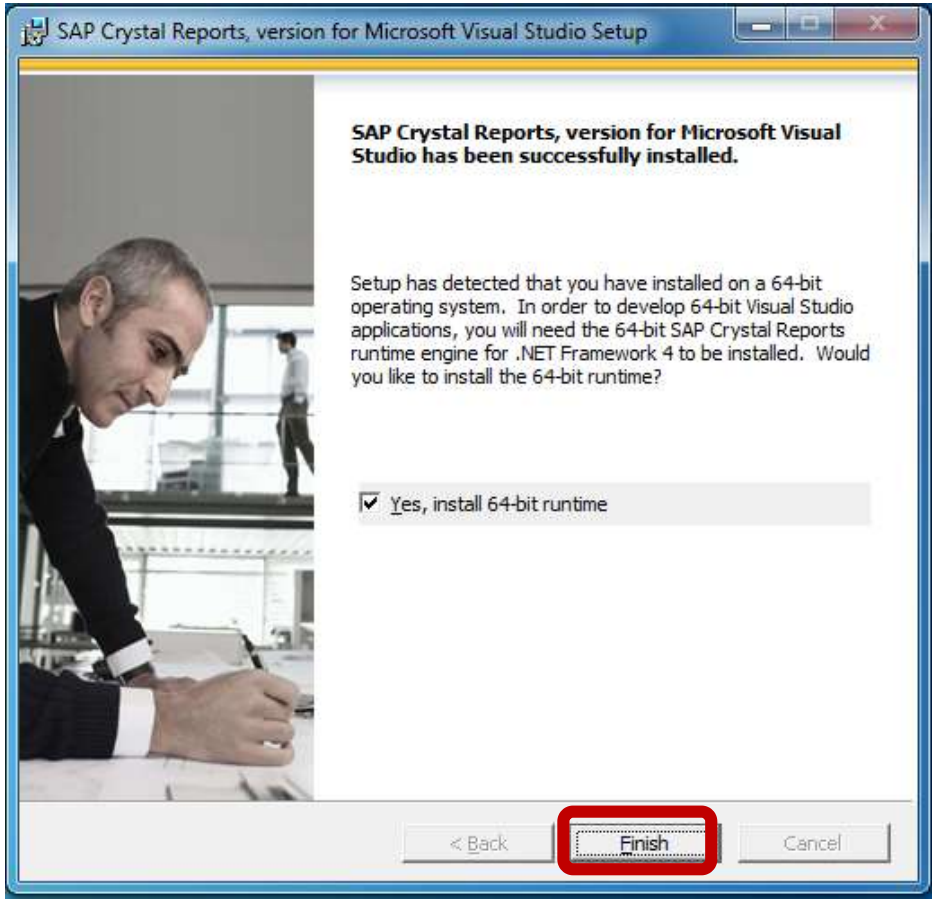
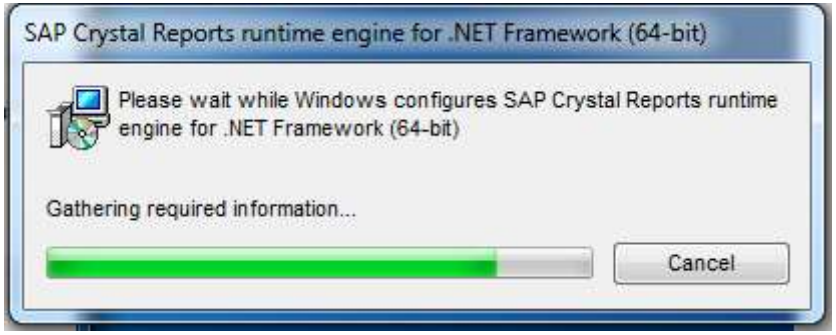


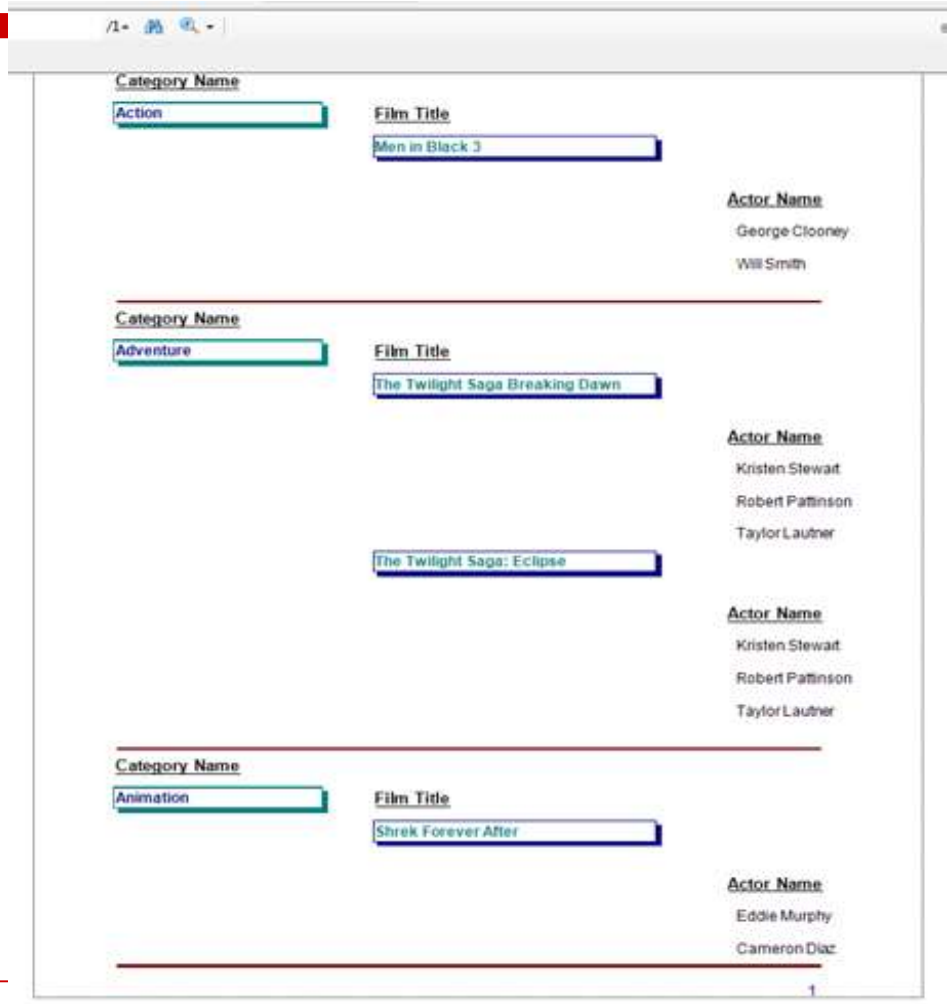
Crystal Reports Installation(cont'd)



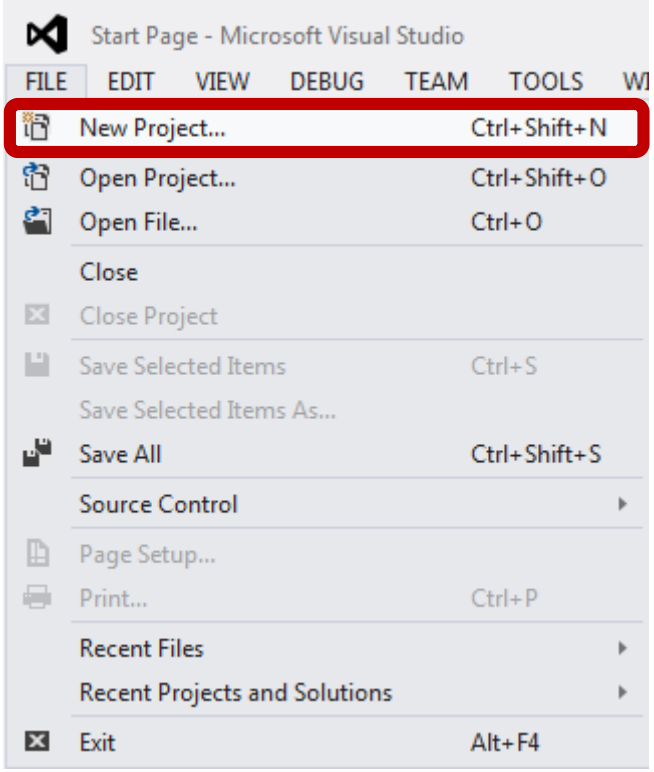
Creating New Crystal Report Application

Crystal Reports Creation(cont'd)

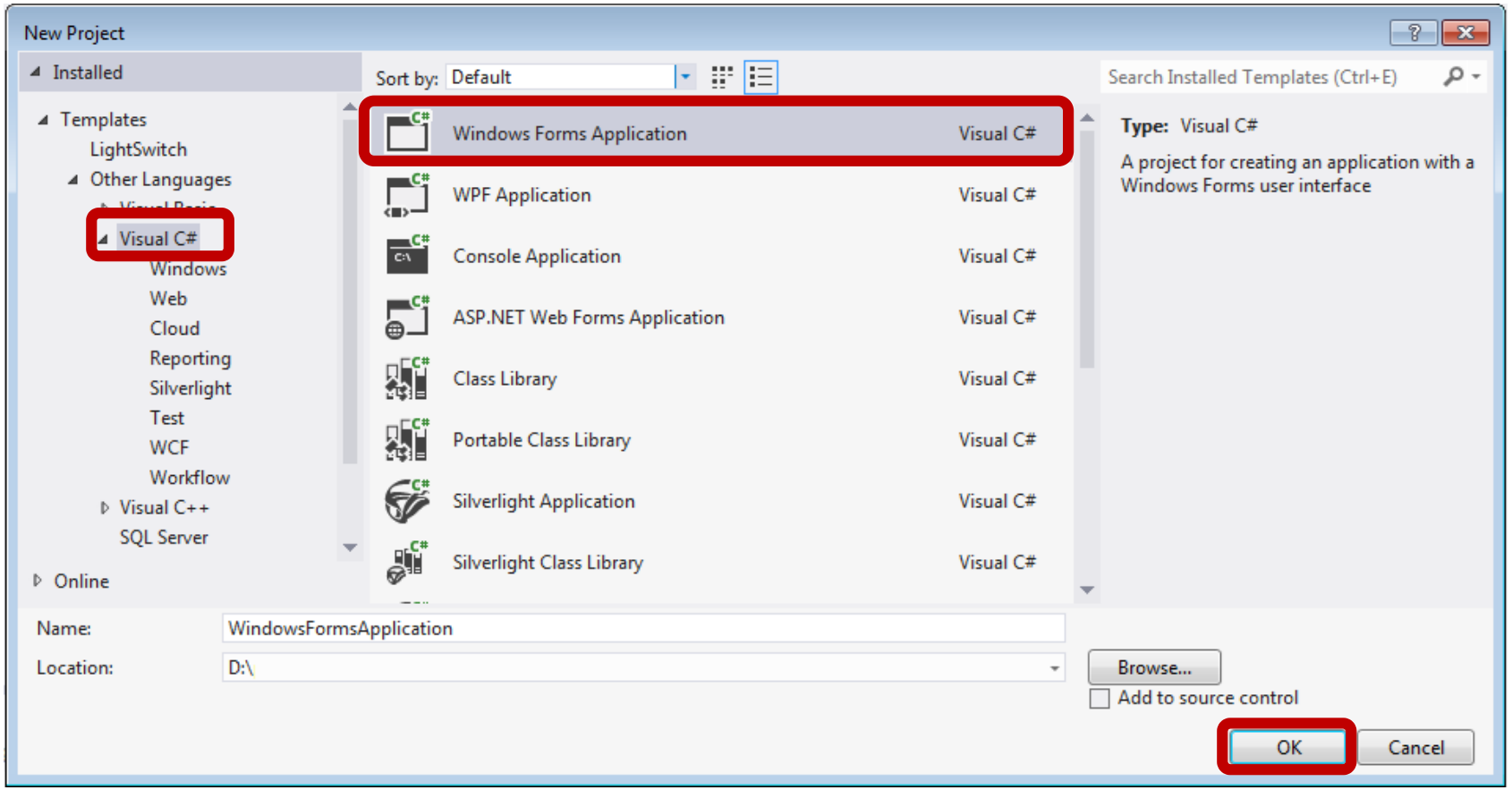
- Create a Report that displays the names of the movies for each category and the names of the actors for each movie title.



Crystal Reports Creation



Crystal Reports Creation(cont'd)



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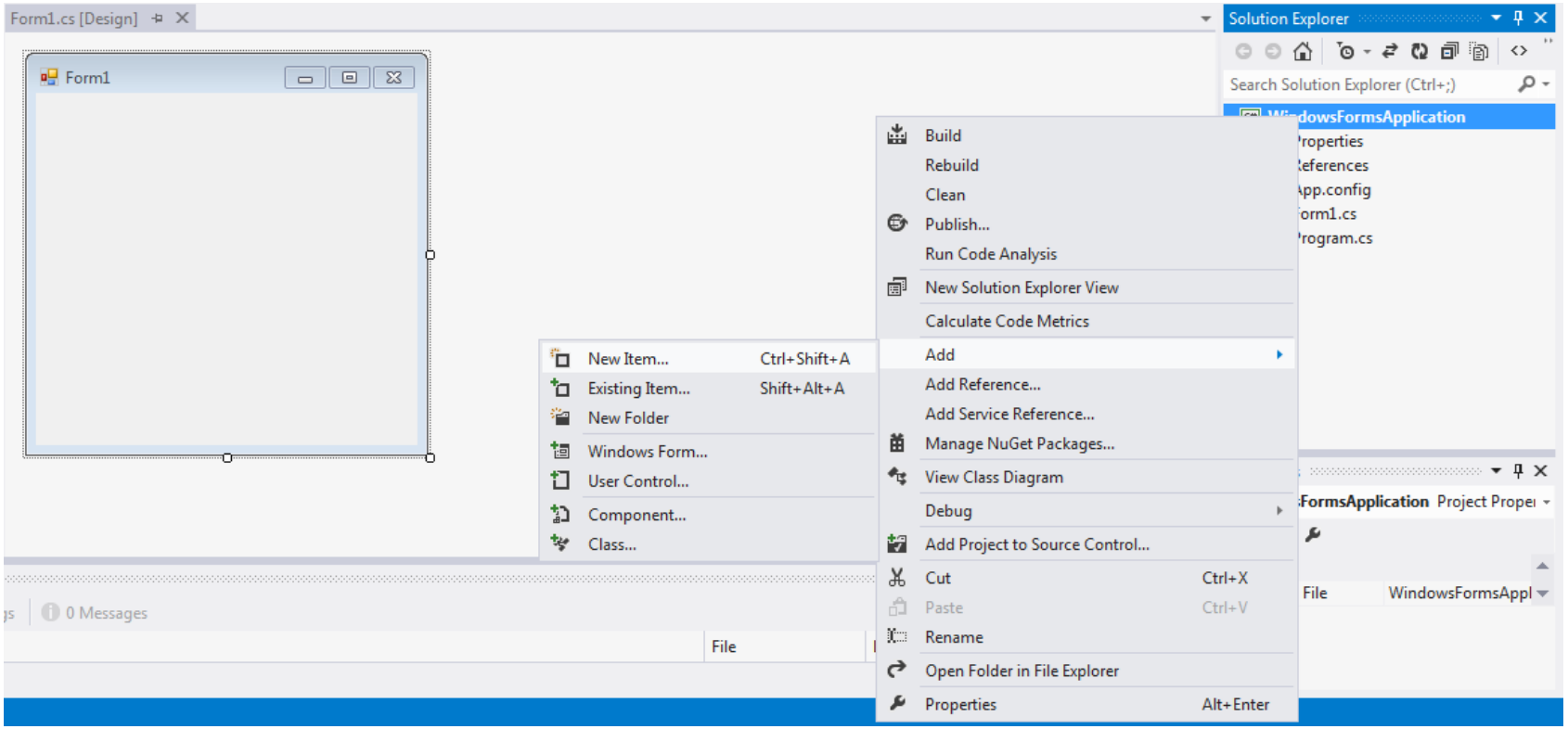
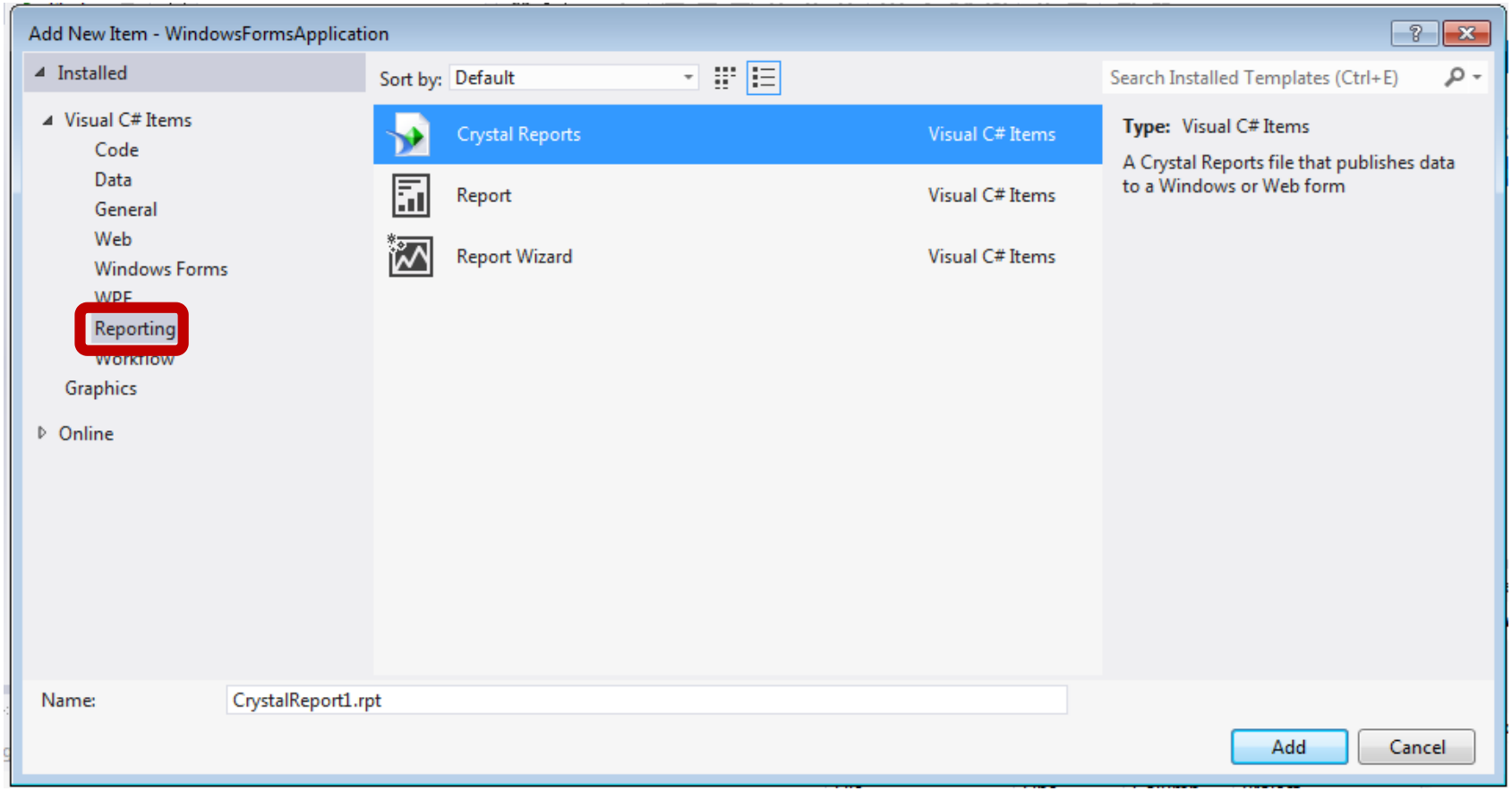
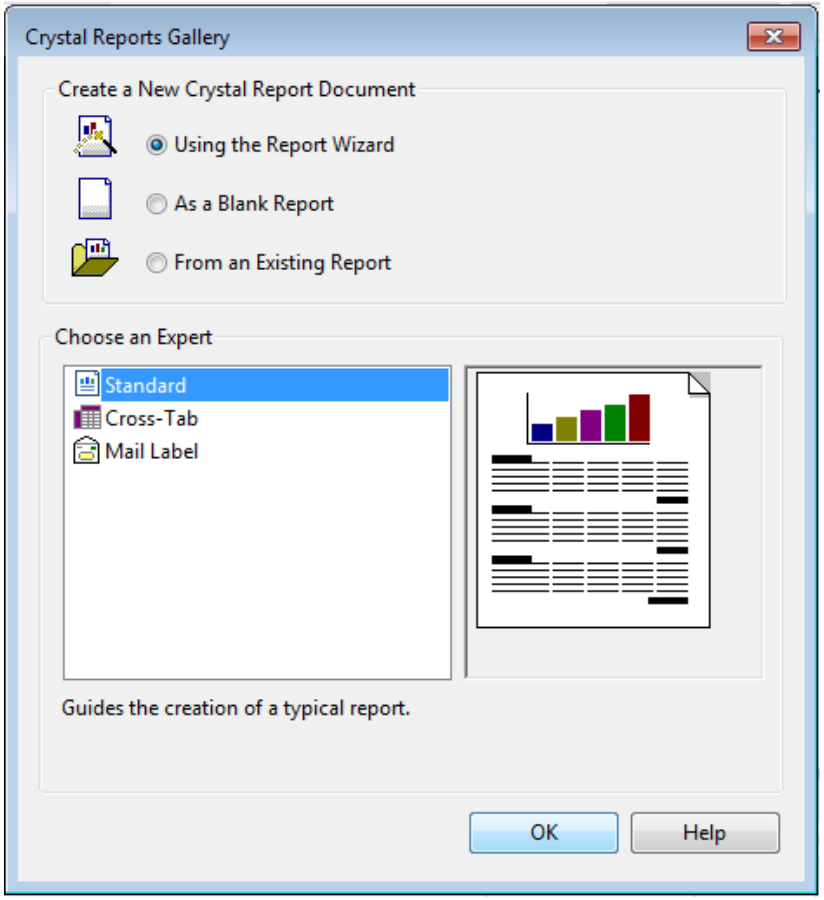


Crystal Reports Creation(cont'd)



Crystal Reports Creation(cont'd)



Crystal Reports Creation(cont'd)

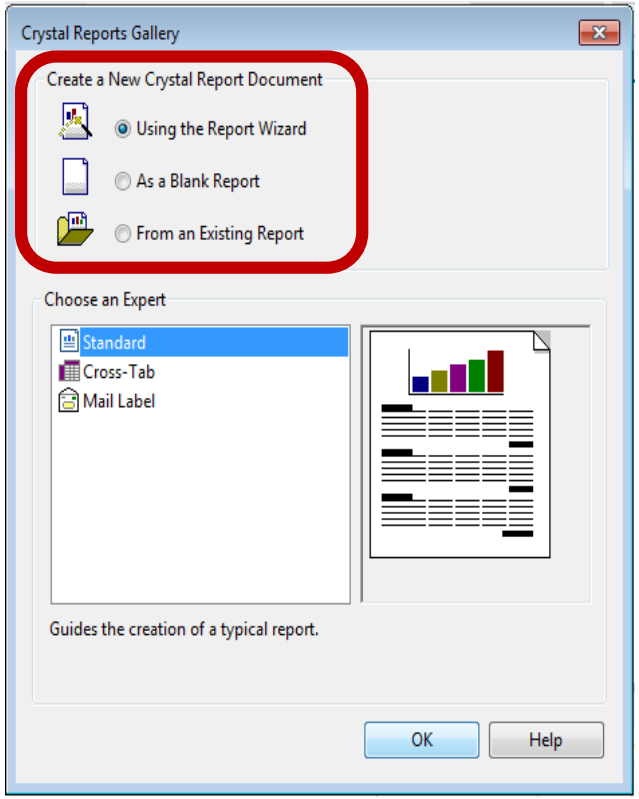
- Create a New Crystal Report Document
  - As a Blank Report

    Opens the Report Designer to build the report from scratch.
  - From an Existing Report

    Creates a new report with the same design as another report you specify.
  - Using the Report Wizard

    Create a new report using the report wizards, called Experts.

    These Experts walk you through a series of steps to select the data and format the report.



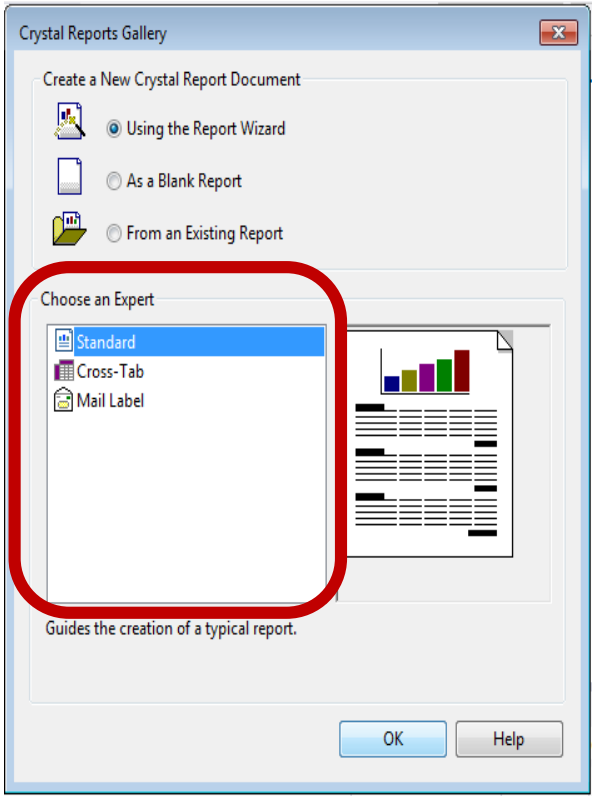
Crystal Reports Creation(cont'd)

- Choose an Expert (using the report wizard)
  - Standard Report

    Allows displaying lists of data and grouping. (typical report)
  - Cross-Tab Report

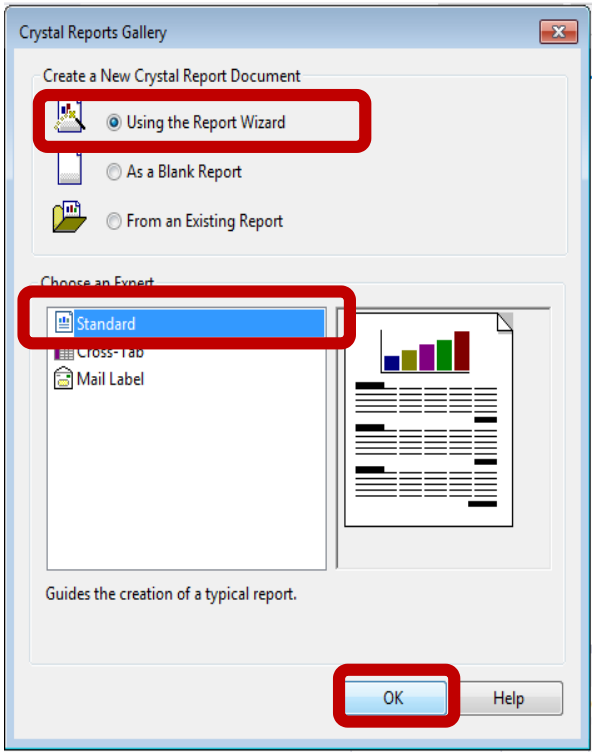
    Allows transforming data into grid (columns and rows).
  - Mail Label Report

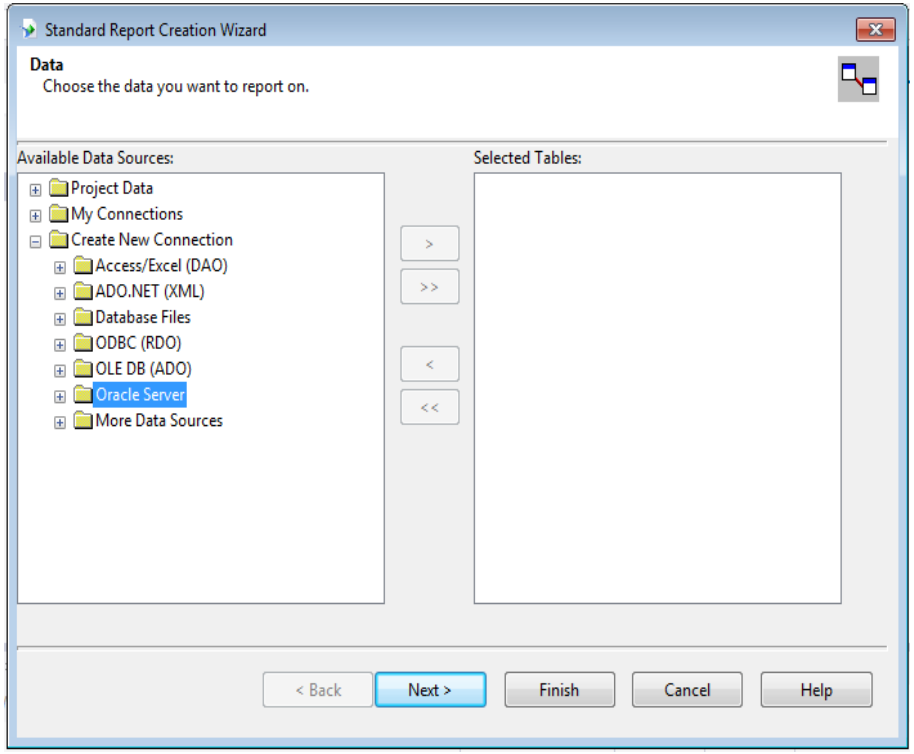
    Allows creating a report with multiple columns. (commonly used to create a sheet of address labels).



Crystal Reports Creation(cont'd)

Select Report Wizard and Standard Expert and then click on next.





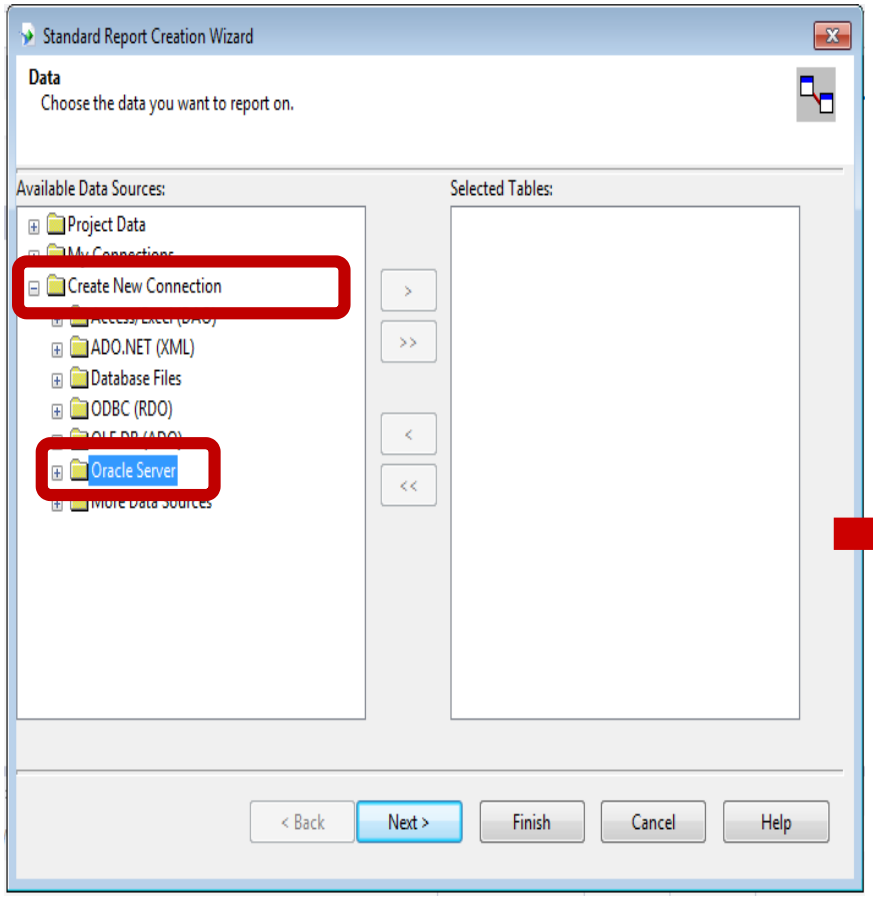
Crystal Reports Creation(cont'd)

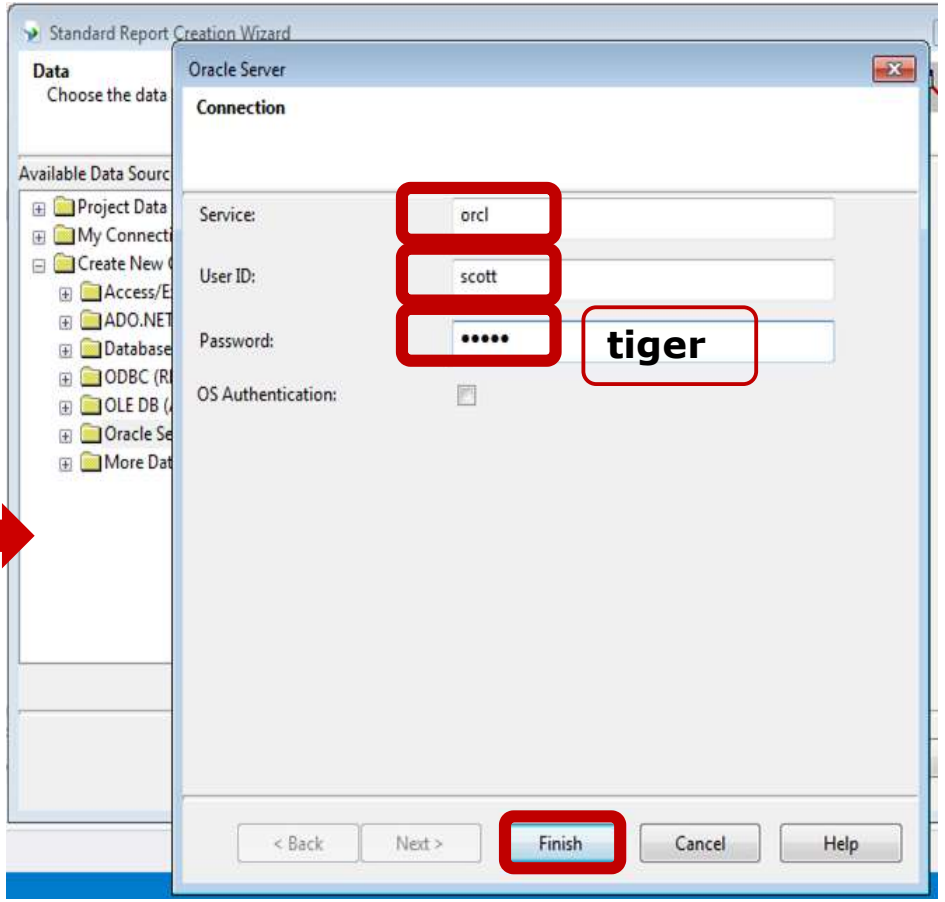
- Standard Report Creation wizard allows you to choose the data source that would be used in the report.
  - Create New Connection

    This option allows you to create a new connection to data source.
  - My Connections

    This Option lists the most recently used data source connection, so that you can quickly add it to your report.

Crystal Reports Creation(cont'd)





Crystal Reports Creation(cont'd)

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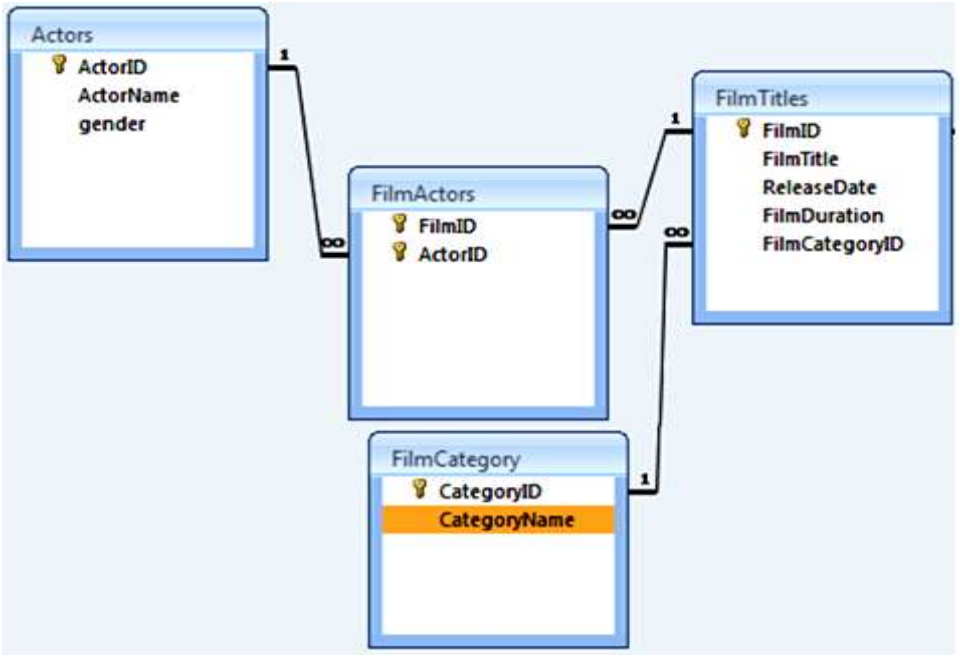
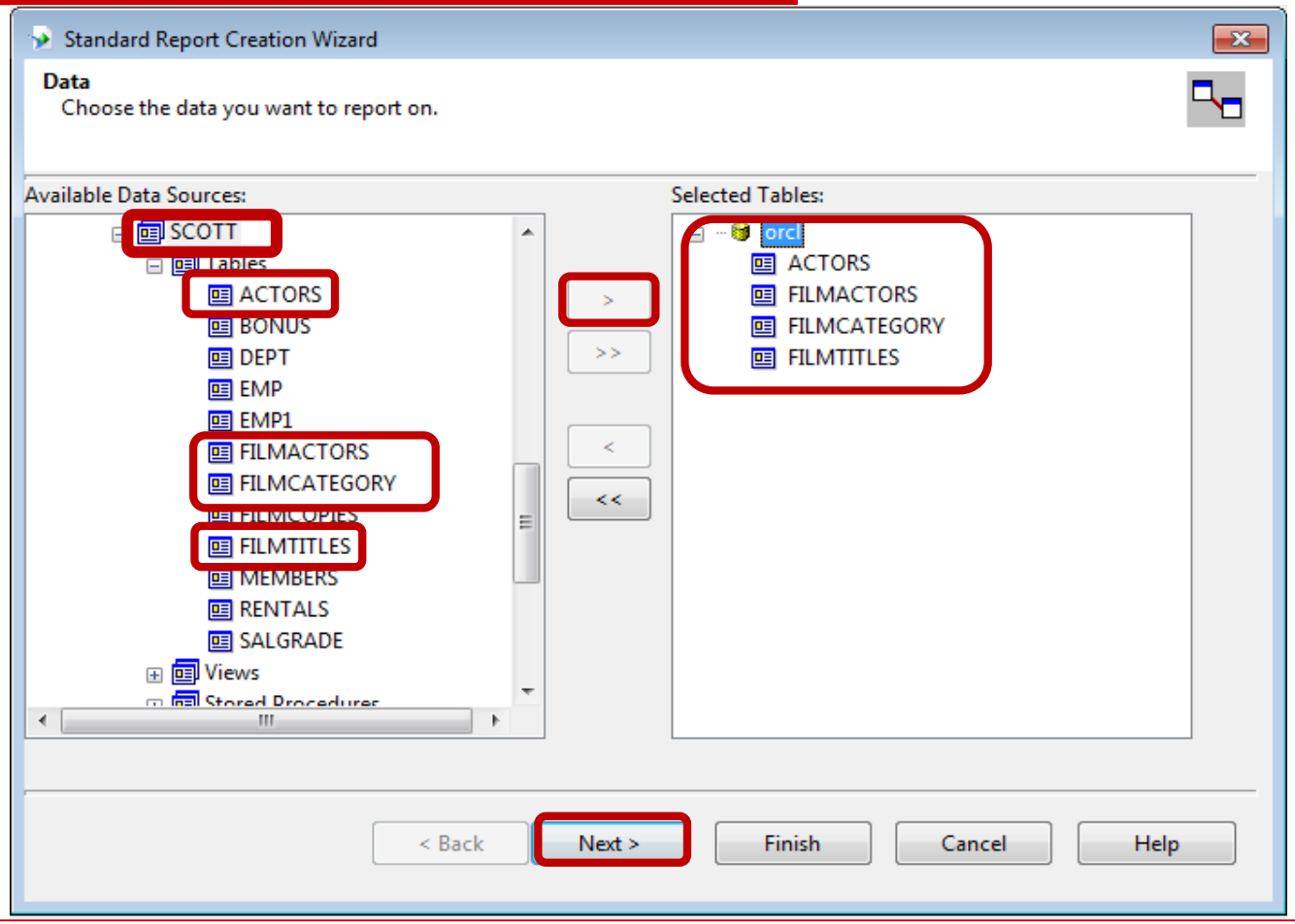


Crystal Reports Creation(cont'd)



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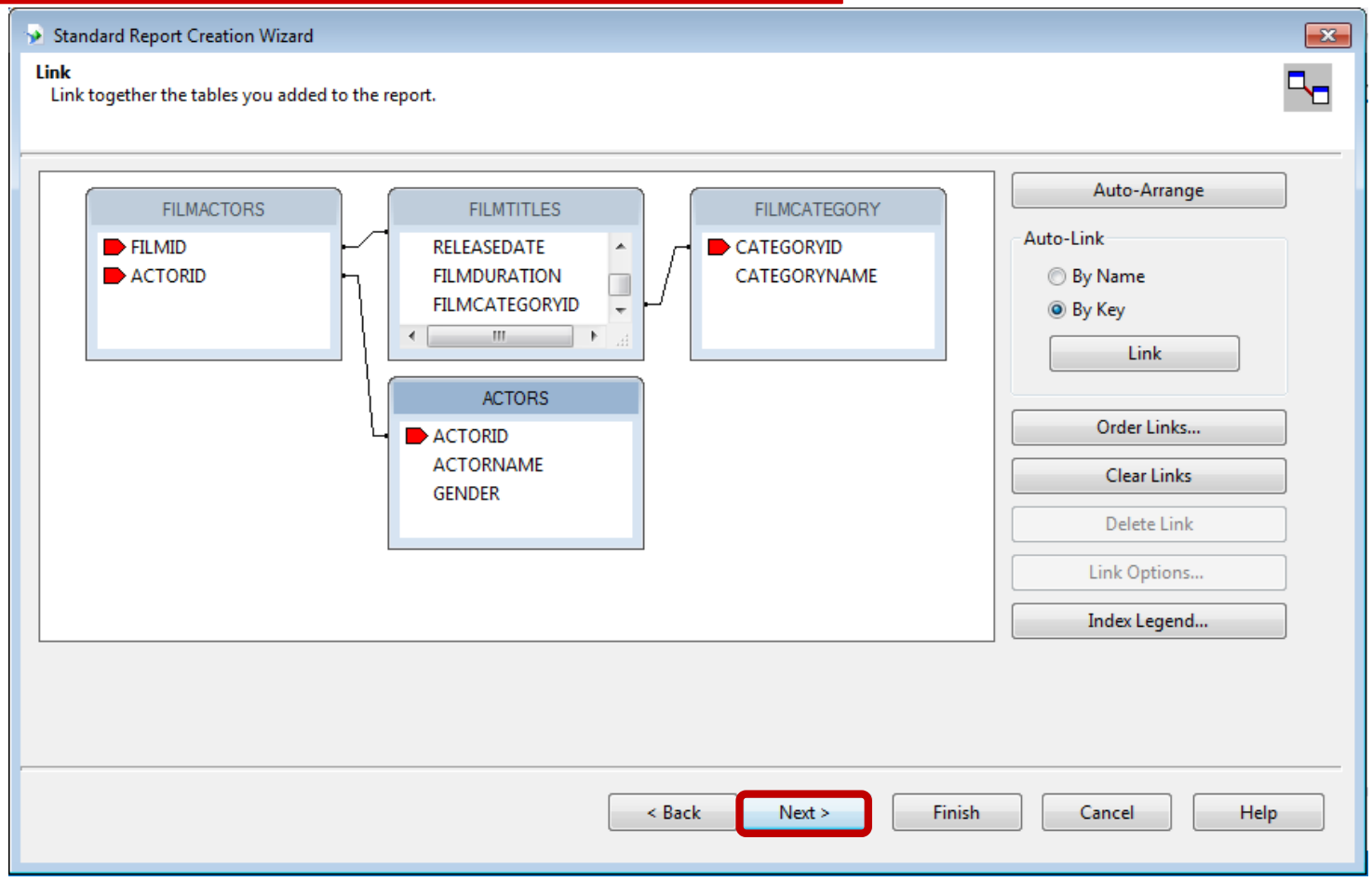

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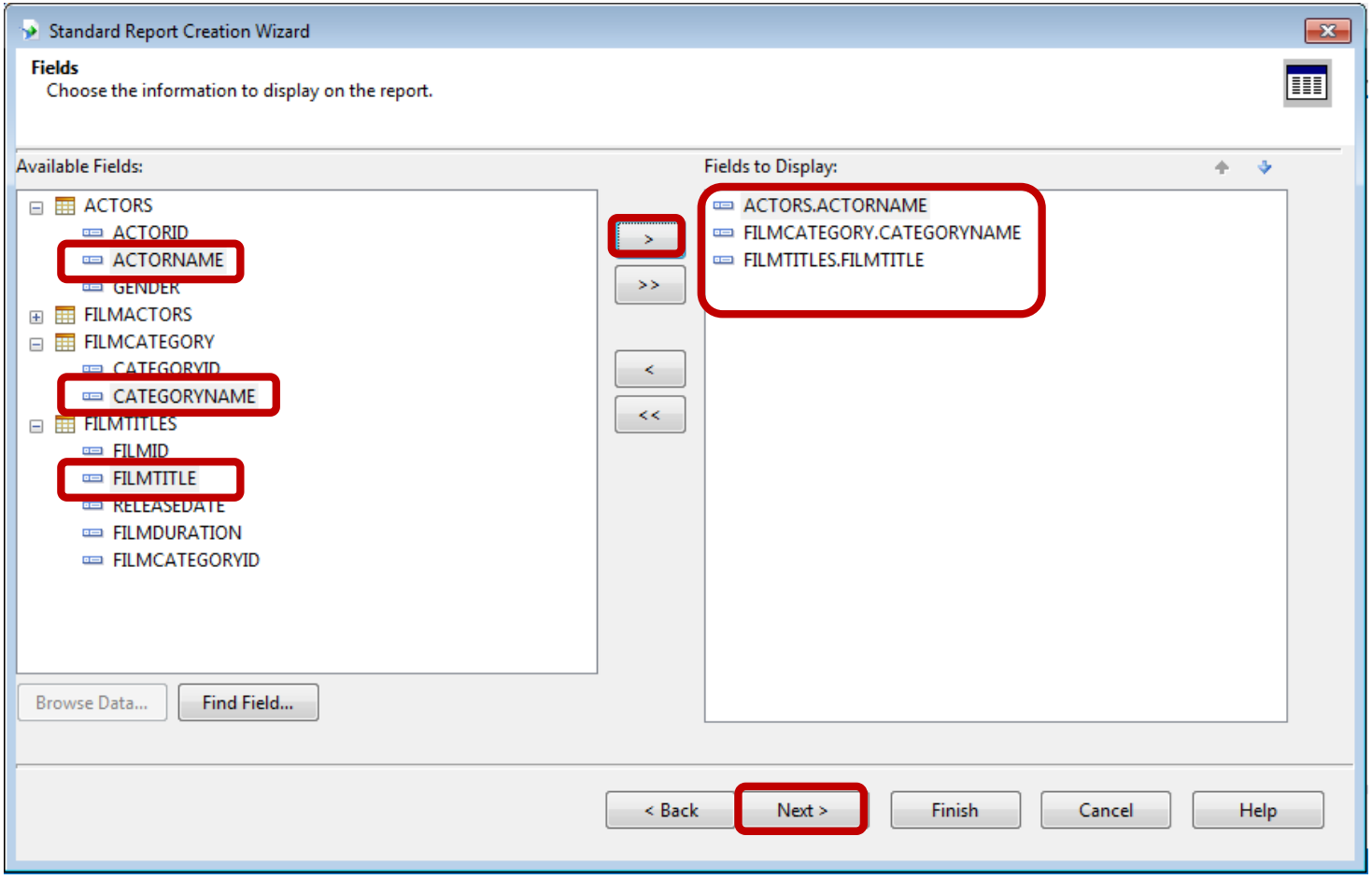

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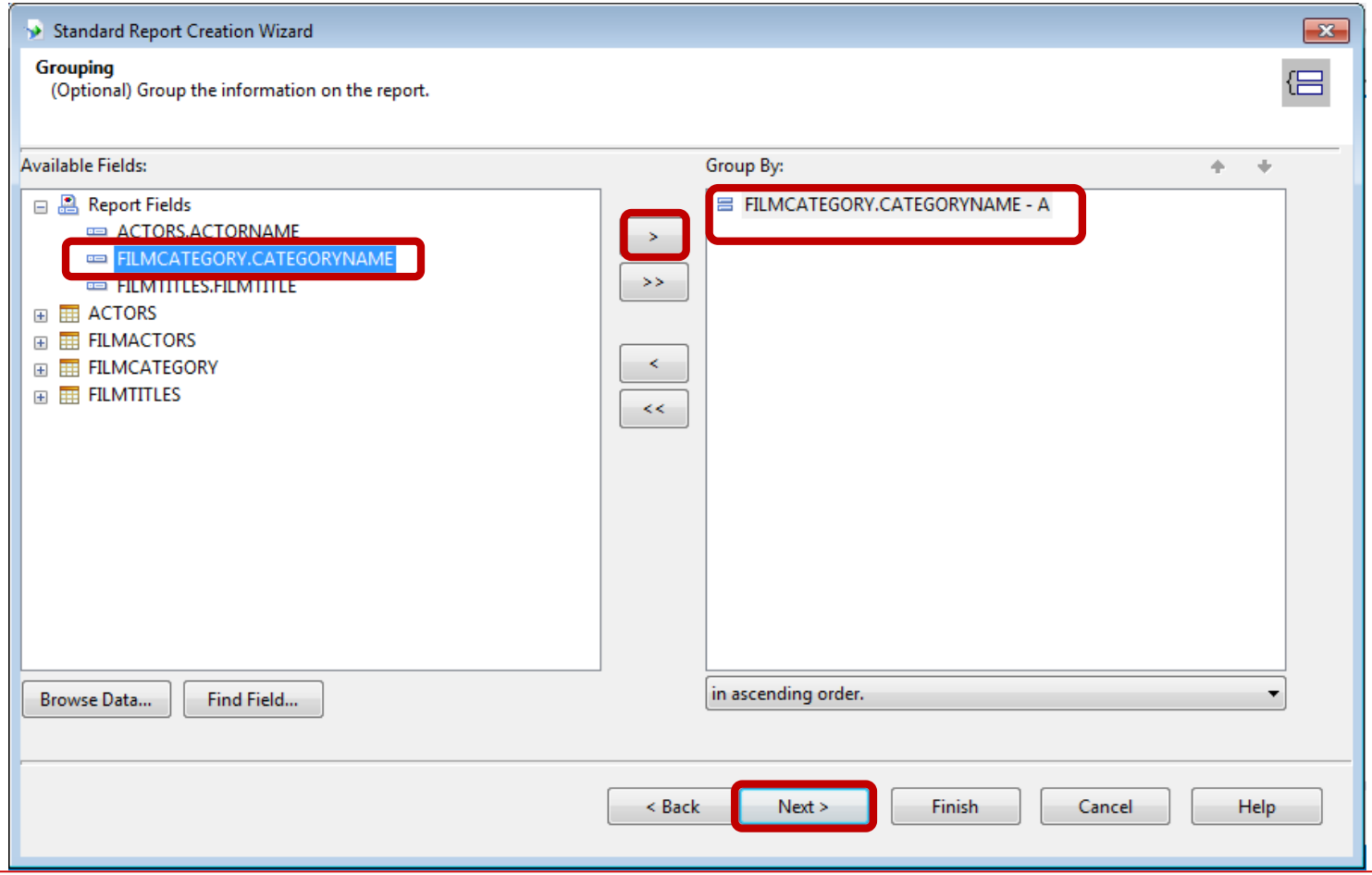

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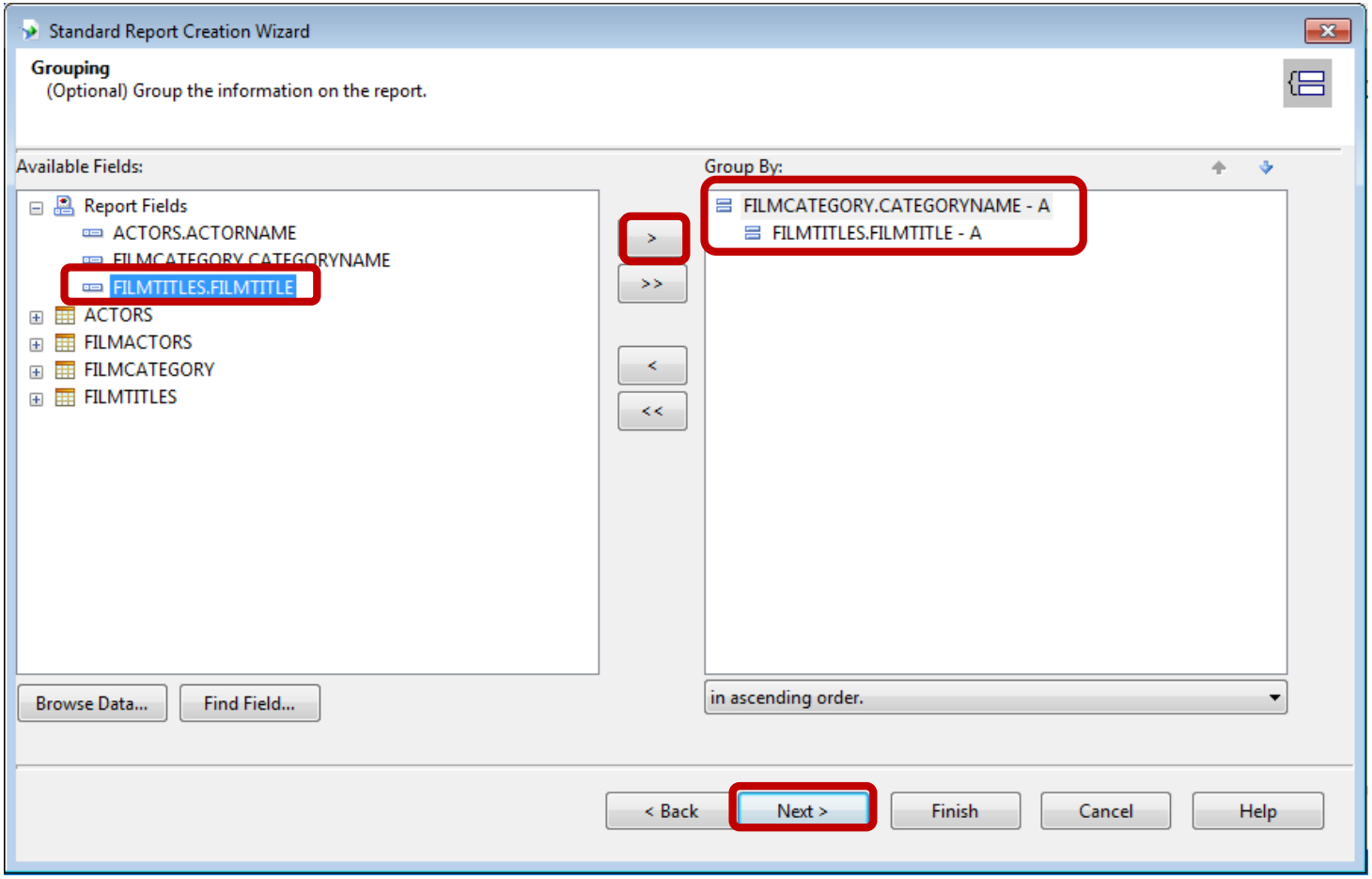

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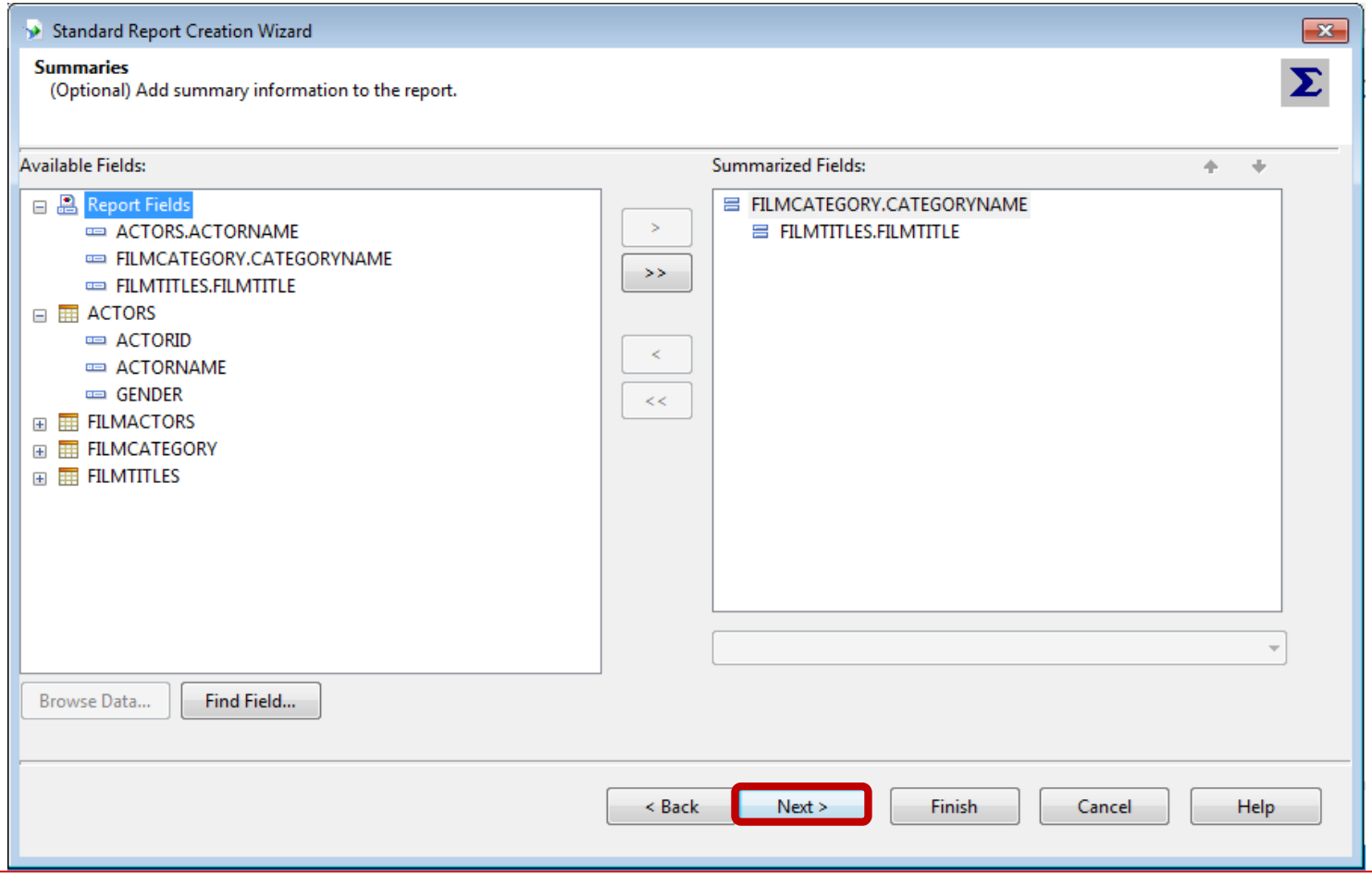

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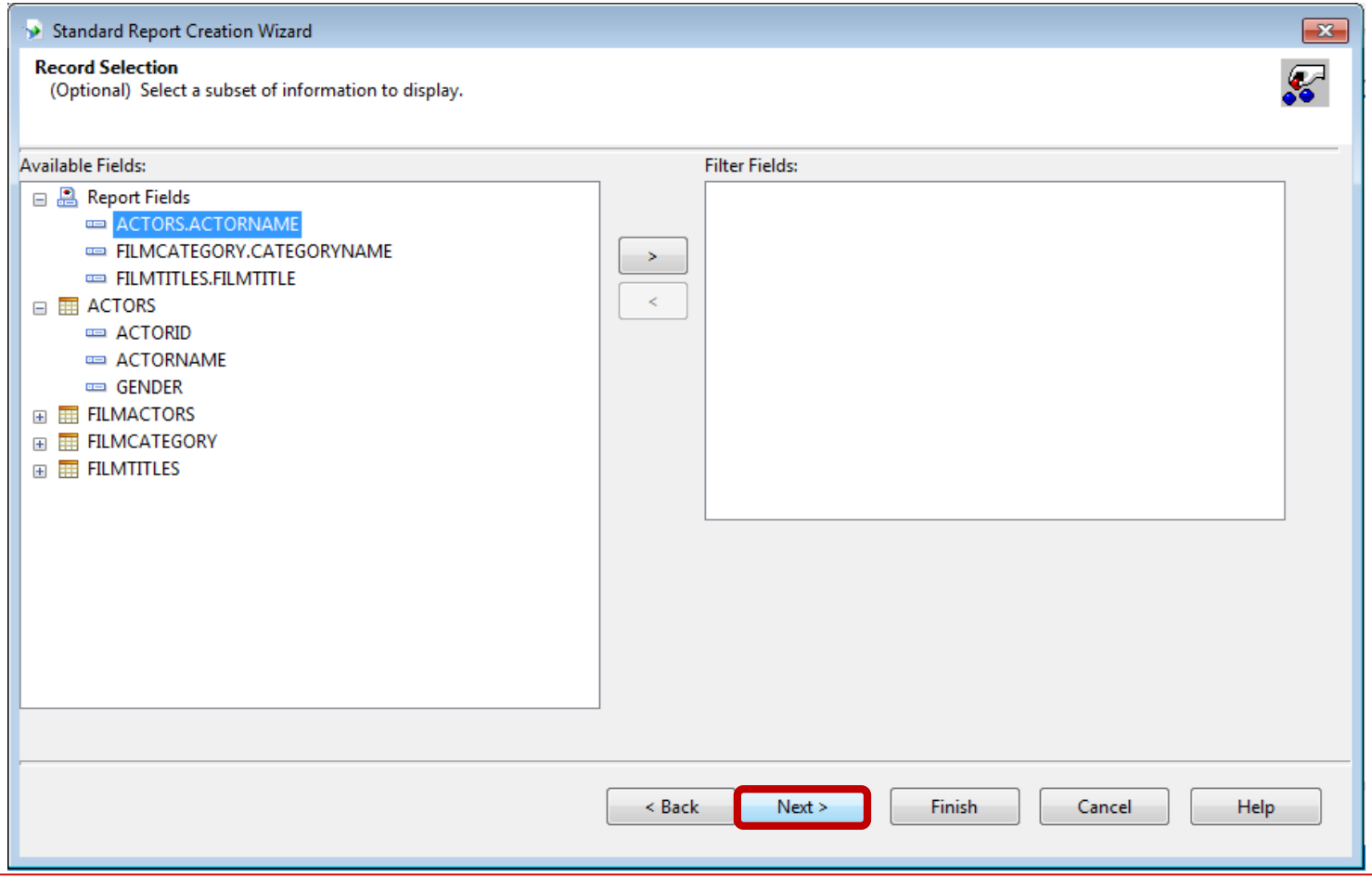

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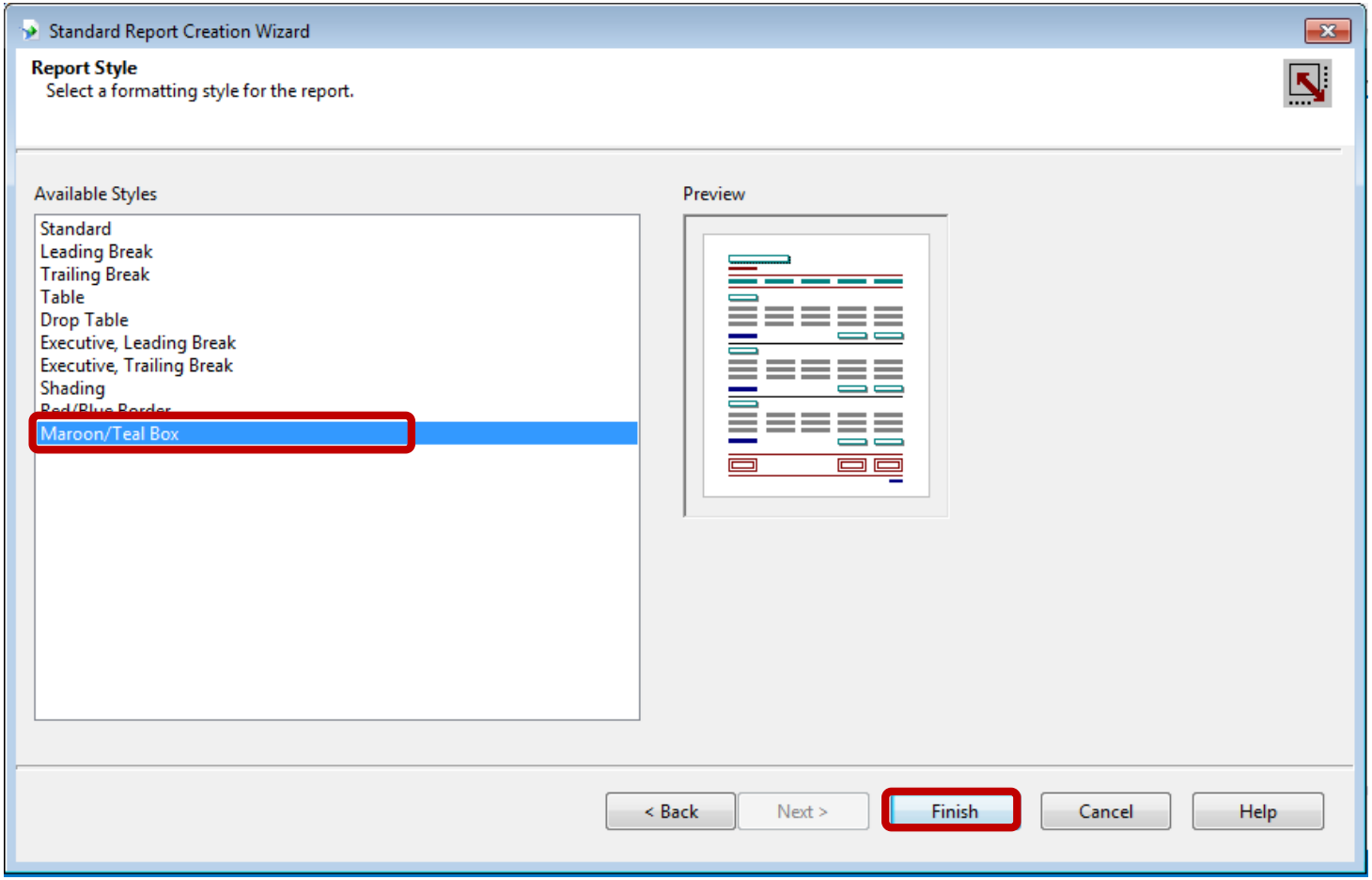
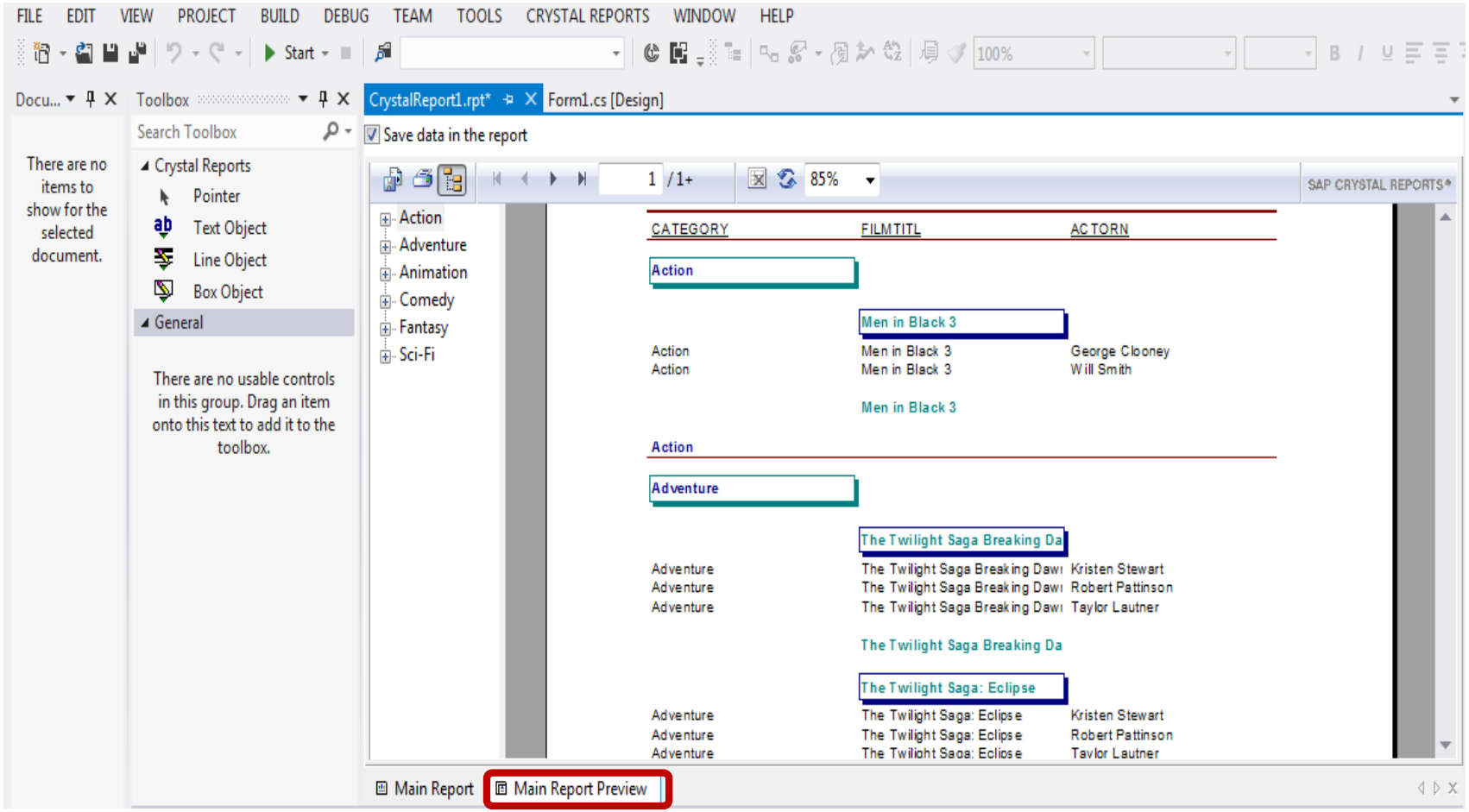


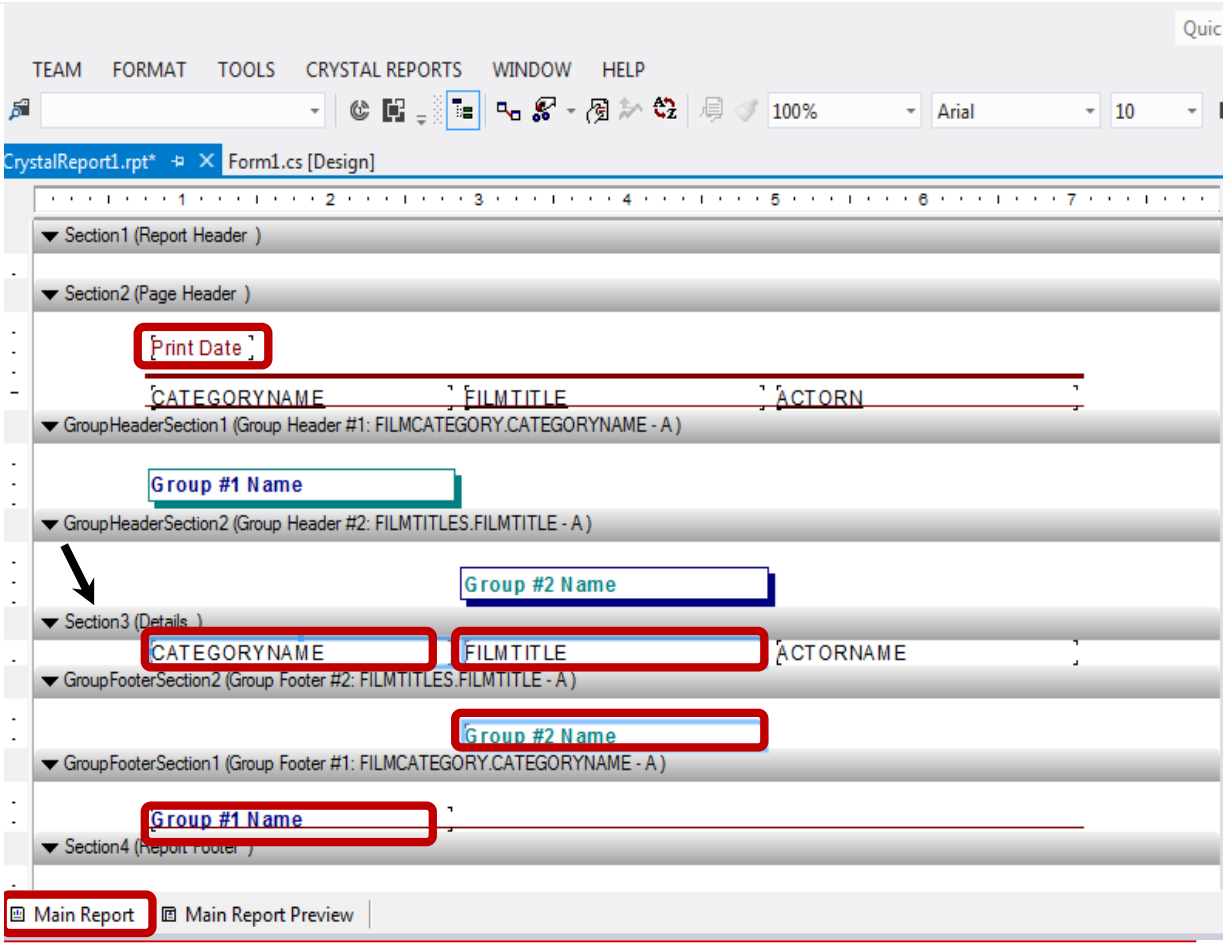
Report Preview



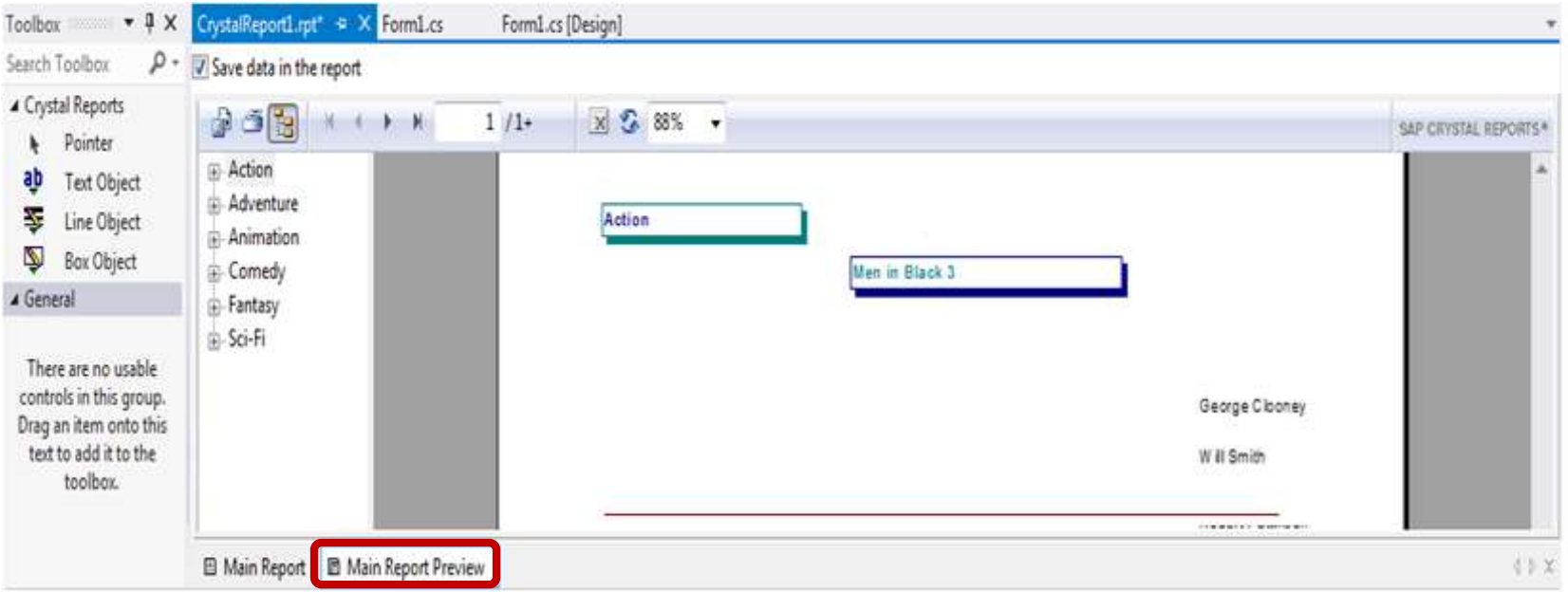
Modify Report Design

- Category name and film title are repeated for each actor name because they are included in the Details section which displays the included columns for each row

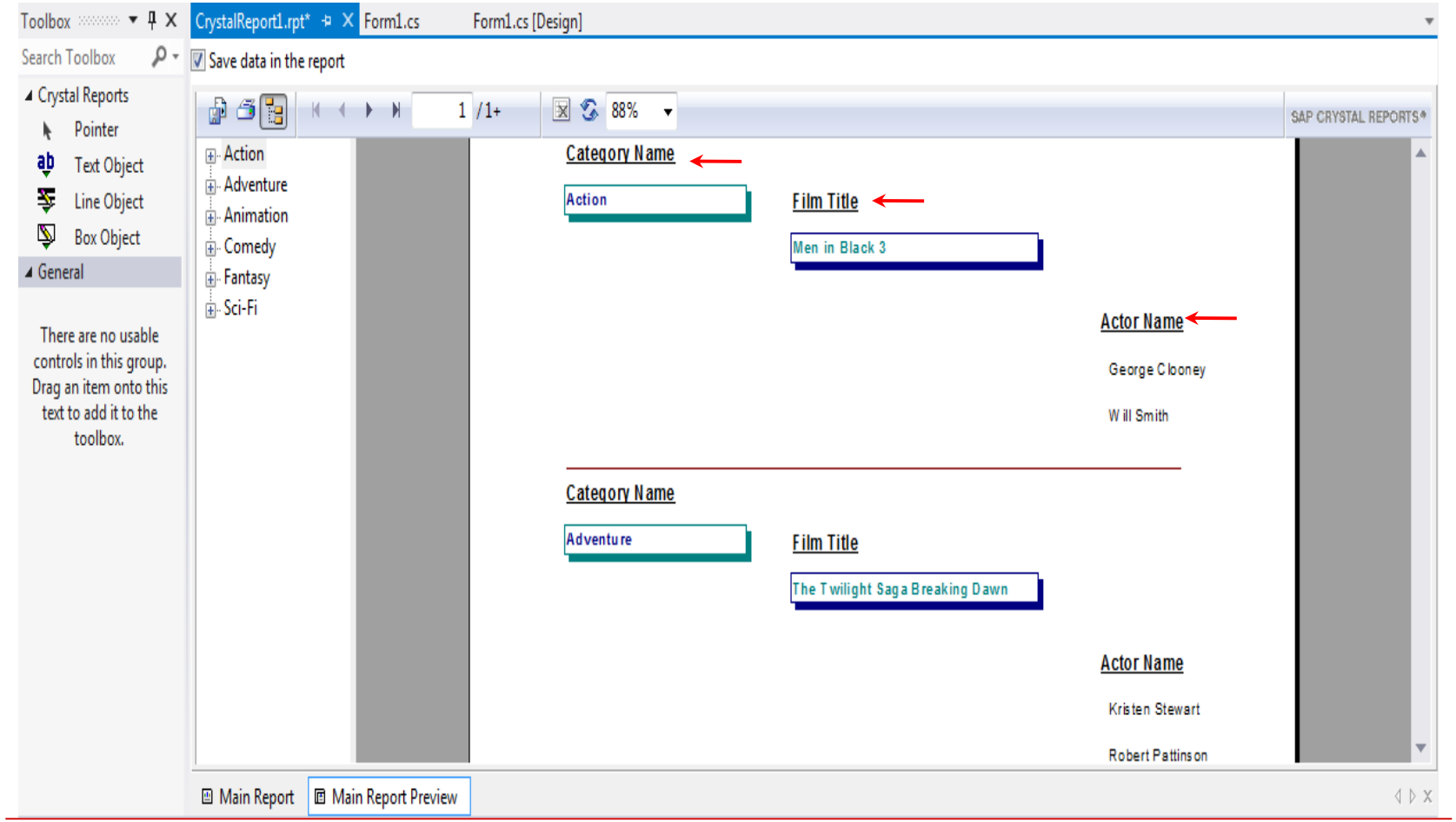
- To prevent repetition, select the column names and press the Del button



Modify Report Design(cont'd)

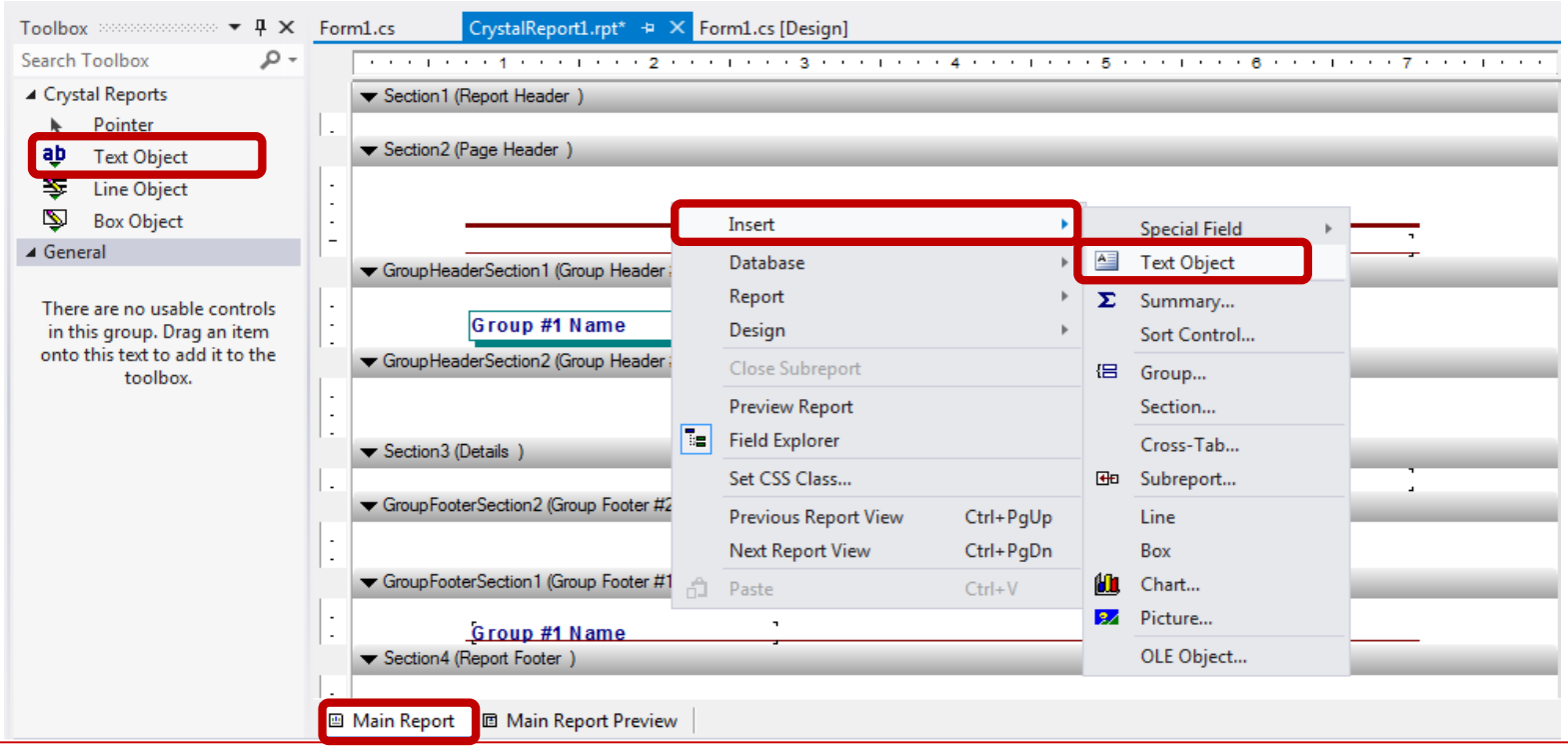


Inserting Labels into Report



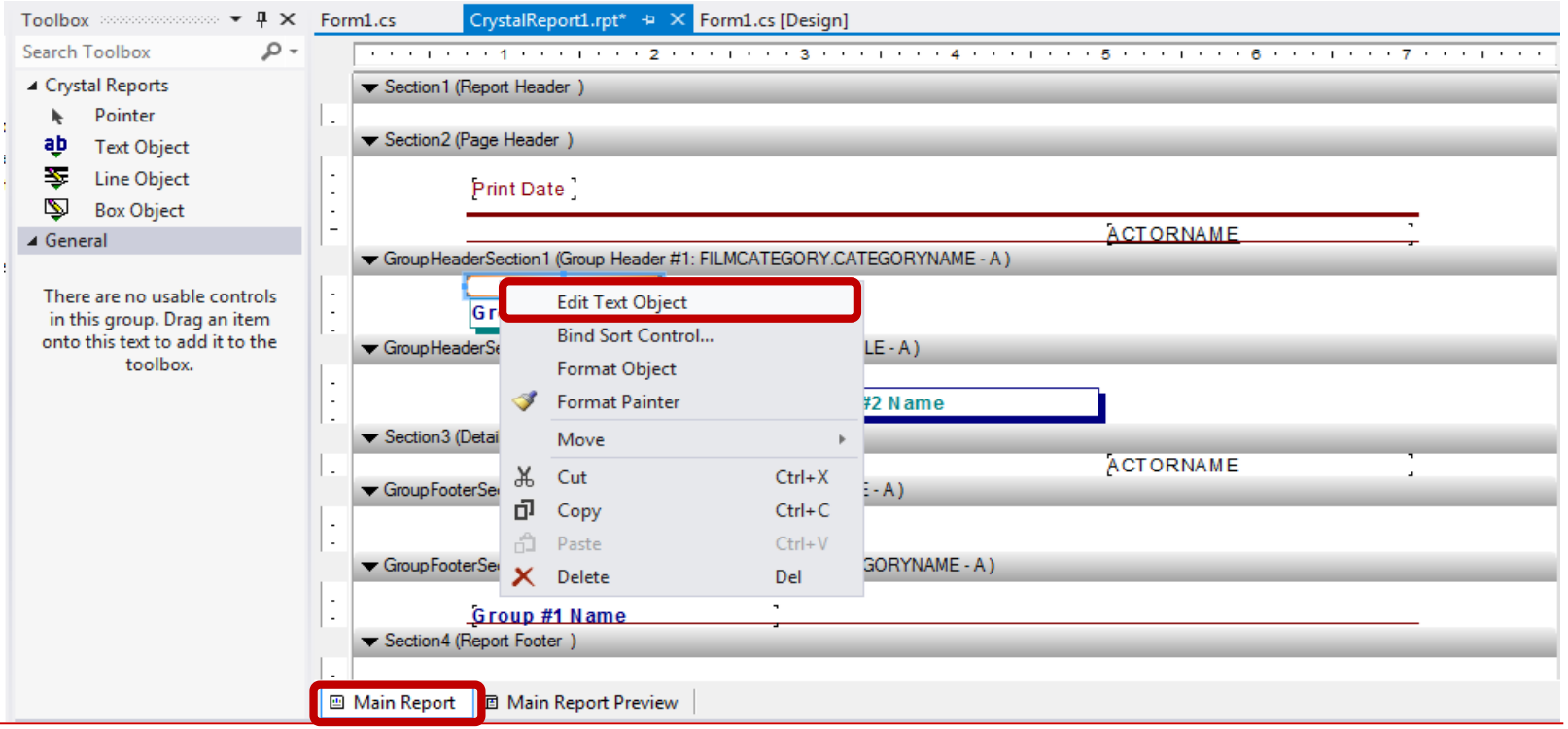
Inserting Labels into Report (cont'd)

- For Adding New Text Object, Right click on crystal reports designer window.

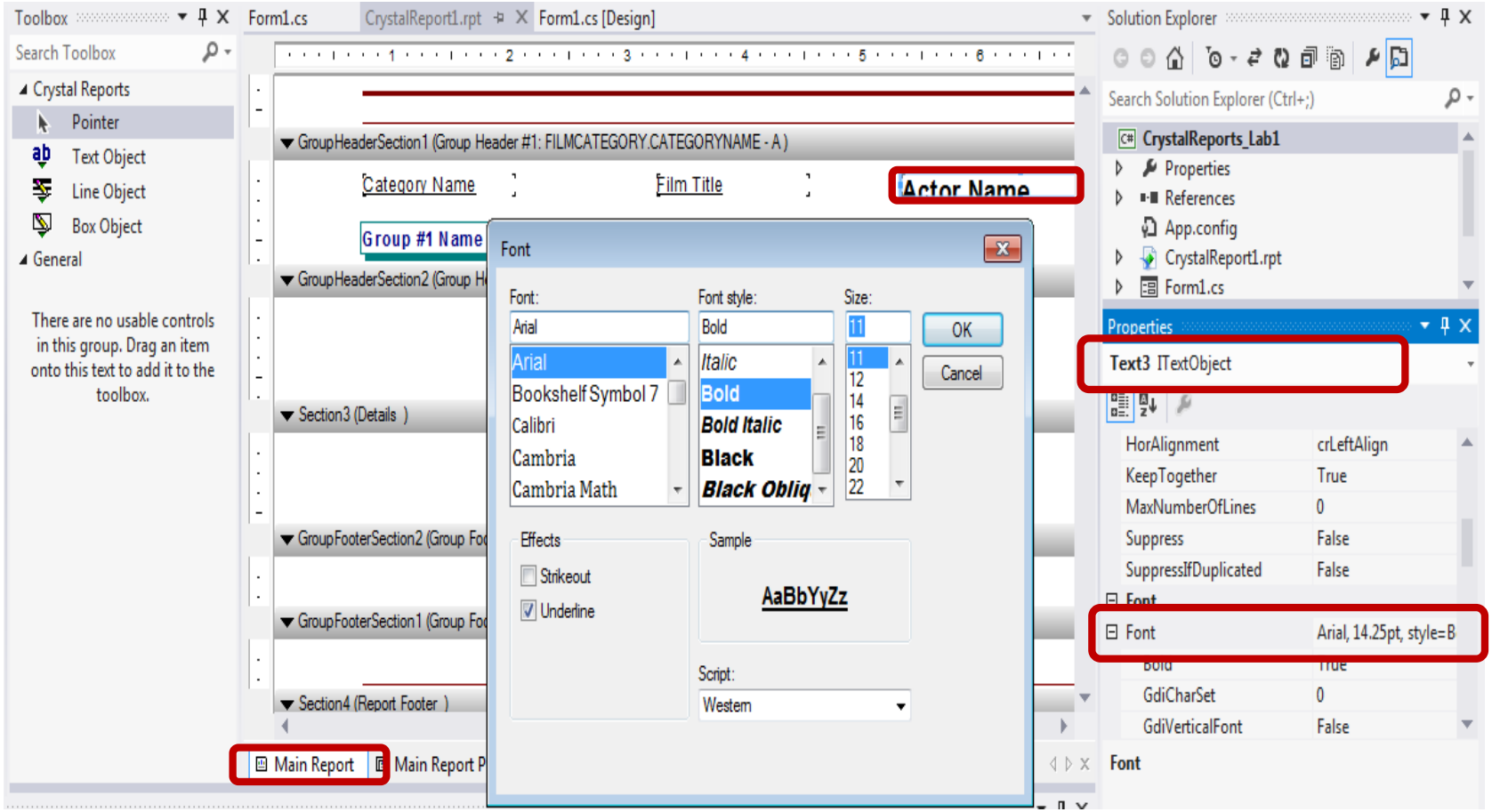


Inserting Labels into Report (cont'd)

- For Editing the text in the Text Object, Right click on Text Object then Edit Text Object.



Inserting Labels into Report (cont'd)



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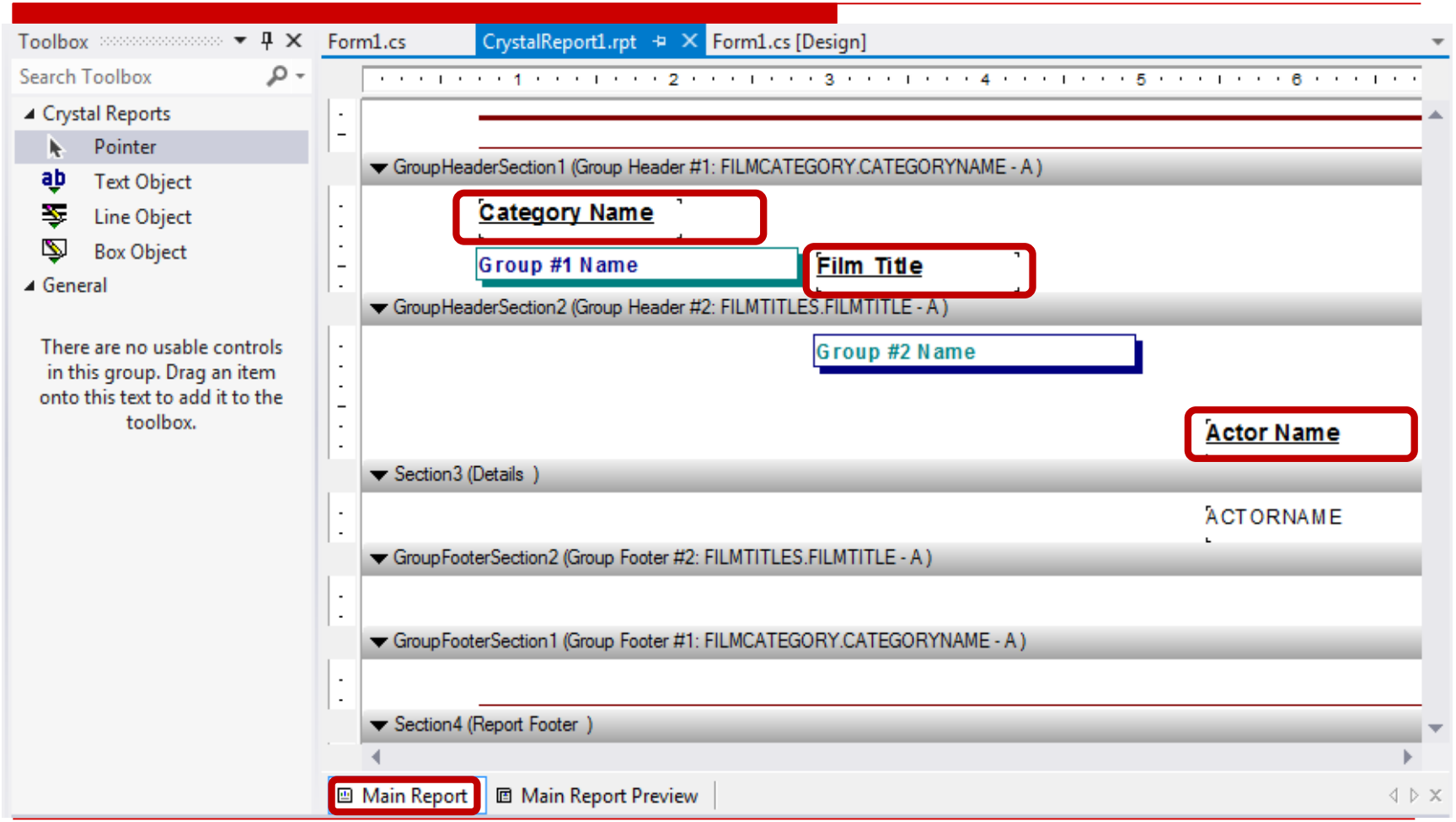

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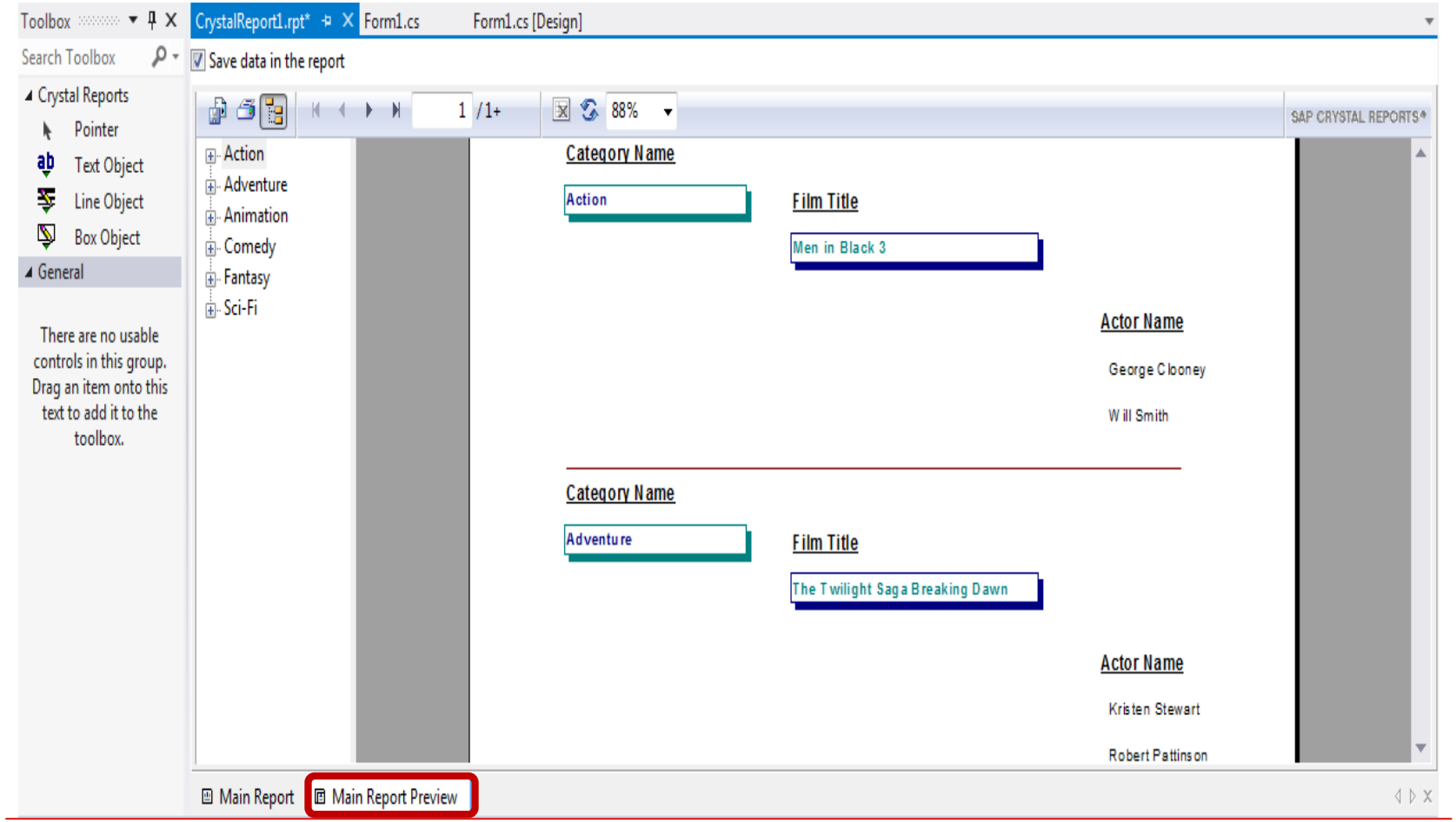
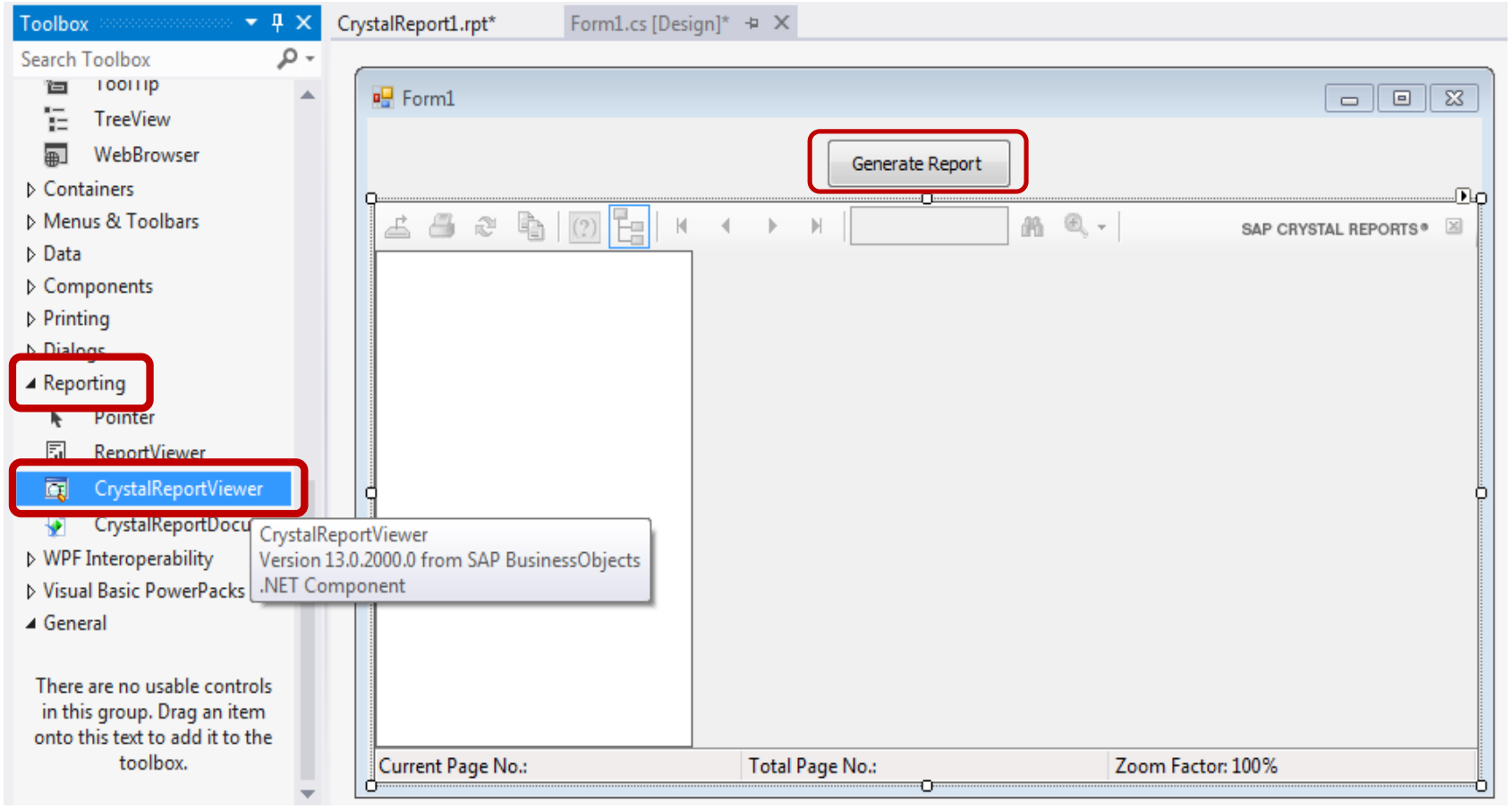


Calling Crystal Reports From C# Form

Crystal Reports Creation(cont'd)



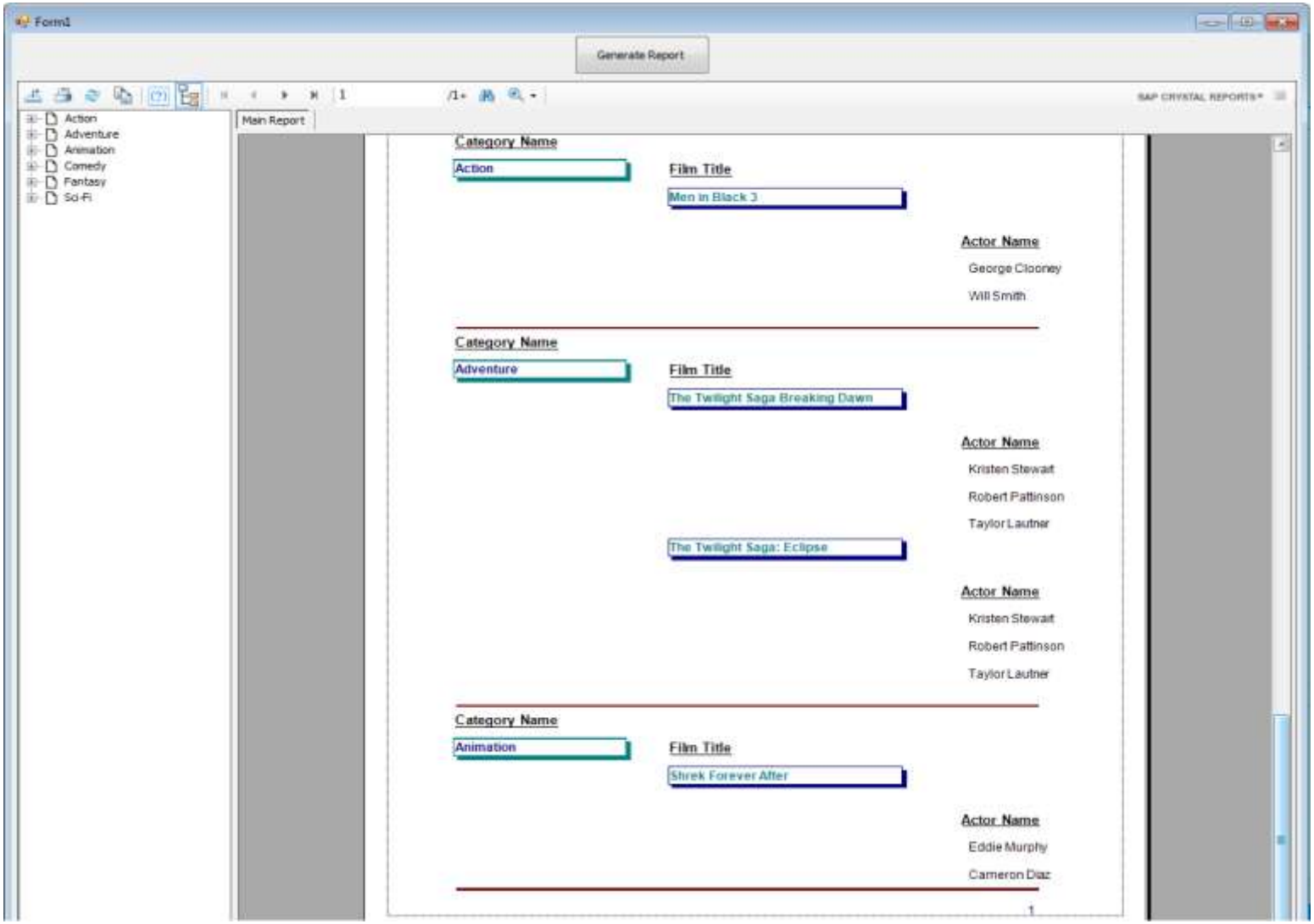
Form1.cs* | Form1.cs [Design]* | Program.cs

CrystalReports_Lab1.Form1 | GenerateReport_btn_Click(object sender, EventArgs e)

```
namespace CrystalReports_Lab1
{
    public partial class Form1 : Form
    {
        CrystalReport1 CR;

        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            CR = new CrystalReport1();
        }
        private void GenerateReport_btn_Click(object sender, EventArgs e)
        {
            crystalReportViewer1.ReportSource = CR;
        }
```


Form1
Generate Report
Action
Adventure
Animation
Comedy
Fantasy
Sci-Fi
Main Report
Category Name
Action
Film Title
Men in Black 3
Actor Name
George Clooney
Will Smith
Category Name
Adventure
Film Title
The Twilight Saga Breaking Dawn
Actor Name
Kristen Stewart
Robert Pattinson
Taylor Lautner
The Twilight Saga: Eclipse
Actor Name
Kristen Stewart
Robert Pattinson
Taylor Lautner
Category Name
Animation
Film Title
Shrek Forever After
Actor Name
Eddie Murphy
Cameron Diaz
1

Thank You