Crystal Reports 2016: Part 2
Course Summary

Description
Until now, you have used Crystal Reports to build and modify reports. You want to use the advanced functionality of Crystal Reports to generate reports in the format you desire. In this course, you will create complex reports and data sources using the tools in Crystal Reports 2016. You will not only create more sophisticated reports including subreports and cross-tabs, but you will also increase the speed and efficiency of your reports by using SQL queries.

Even though you are familiar with Crystal Reports, you may take some time to study its various tools that enable you to generate reports with the desired data using advanced methods such as SQL querying. This way, you won't be slowed down by large databases or databases with which you are unfamiliar. By creating subreports, cross-tabs, and running totals, you will turn raw data into meaningful customized reports that will help your business run more smoothly. If you work with large databases, you may find yourself faced with performance issues. In this course, you will also learn to use tools that can increase the speed with which data is retrieved.

Objectives
By the end of this course, students will be able to:
- Create automatic and manual running totals.
- Work with cross-tab reports.
- Add subreports.
- Create drill-downs in a report.
- Use SQL statements in report processing.
- Create complex formulas.
- Add charts to reports.
- Enhance report functionality.

Topics
- Creating Running Totals
- Working with Cross-Tabs
- Adding Subreports
- Creating Drill-Downs in a Report
- Using SQL Statements in Report Processing
- Creating Complex Formulas
- Adding Charts to Reports
- Enhancing Report Functionality

Audience
This course is designed for people who know how to create basic list and group reports and need to create reports that include subreports, cross-tabs, advanced formulas, and charts based on more than one data series. They may also need to build tools that make it easier for other people to create reports. They may or may not have programming and/or SQL experience.

Prerequisites
To ensure your success, a knowledge of programming and/or SQL would also be helpful. You can also take the following Logical Operations course: Crystal Reports® 2016: Part 1

Duration
Two days

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Course Outline

I. Creating Running Totals
   A. Create a Running Total Field
   B. Modify a Running Total Field
   C. Create a Manual Running Total

II. Working with Cross-Tabs
    A. Create a Cross-Tab Report
    B. Format a Cross-Tab Report
    C. Create Groups in Cross-Tab Reports

III. Adding Subreports
     A. Insert a Subreport
     B. Edit a Subreport
     C. Share Variables

IV. Creating Drill-Downs in a Report
    A. Create a Drill-Down
    B. Create Headings for Drill-Down Data

V. Using SQL Statements in Report Processing
   A. Create a Report Using SQL Queries
   B. Summarize Report Data
   C. Create Joins Using SQL
   D. Create Subqueries
   E. Create an SQL Expression Field

VI. Creating Complex Formulas
    A. Work with Loops
    B. Work with Arrays

VII. Adding Charts to Reports
     A. Create Charts
     B. Create a Chart with Drill-Down
     C. Create a Top N Chart
     D. Create a Cross-Tab Chart
     E. Create Charts for Grouped Data
     F. Format a Chart
     G. Create a Chart Template

VIII. Enhancing Report Functionality
      A. Organize Data Based on a Hierarchy
      B. Create a Dynamic Image
      C. Create a Report Alert
      D. Create a Geographic Map

IX. Appendix A: Managing Reports

X. Appendix B: Processing Data on the Server

XI. Appendix C: Detecting and Fixing Problems