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## Crystal Reports 10: Advanced

**Course Length:** 2 Days

### Course Description

Since you've probably completed the first course, or are familiar with the basics of building and modifying reports, you're ready to move ahead to create complex reports and data sources using Crystal Reports' tools. In this course, you'll not only learn how to create more sophisticated reports like subreports and cross-tabs, you'll also learn how to increase the speed and efficiency of your reports by using SQL queries and dictionaries.

**Course Objective:** You will create complex reports and data sources using Crystal Reports' tools.

**Target Student:** 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 to make it easier for other people to create reports. They may or may not have programming and/or SQL experience.

**Prerequisites:** Crystal Reports 10.0: Level 1, and knowledge of programming and/or SQL would be helpful.

**Delivery Method:** Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

### Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- Create running totals in a report.
- Build cross-tabs in your report.
- Add subreports to a report.
- Design a report that uses a drill-down.
- Improve processing speed in your reports.
- Chart single and multiple data series.
- Report from Excel data.

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## Course Content

### Lesson 1: Creating Running Totals

- Topic 1A: Create a Running Total Field
- Topic 1B: Modify a Running Total Field
- Topic 1C: Create a Manual Running Total on Detail Data
- Topic 1D: Create a Manual Running Total on Summary Data

### Lesson 2: Building Cross-tabs in Your Report

- Topic 2A: Create a Cross-tab
- Topic 2B: Create a Specified Group Order
- Topic 2C: Filter a Cross-tab by Group
- Topic 2D: Change the Cross-tab Format
- Topic 2E: Conditionally Format Rows and Columns
- Topic 2F: Keep Groups Together

### Lesson 3: Adding Subreports

- Topic 3A: Insert a Subreport
- Topic 3B: Link a Subreport to Data in a Primary Report
- Topic 3C: Edit a Subreport
- Topic 3D: Format a Subreport Using the Format Editor
- Topic 3E: Share Formulas Between Main and Subreports
- Topic 3F: Create an On-demand Subreport

### Lesson 4: Creating Drill-downs

- Topic 4A: Create a Drill-down
- Topic 4B: Create Separate Headings for Drill-down Data

### Lesson 5: Enhancing Report Processing Using SQL

- Topic 5A: Create a Report Using SQL Queries
- Topic 5B: Summarize Report Data Using SQL Aggregate Functions
- Topic 5C: Create Joins Using SQL
- Topic 5D: Create Subqueries
- Topic 5E: Create an SQL Expression Field to Promote Server-side Processing

### Lesson 6: Charting Data

- Topic 6A: Create a Bar Chart
- Topic 6B: Modify a Chart
- Topic 6C: Create a Top N Chart
- Topic 6D: Format a Chart
- Topic 6E: Create a Chart Template

### Lesson 7: Reporting on Excel Data

- Topic 7A: Create a Report Based on Excel Data
- Topic 7B: Modify a Report Generated from Excel Data
- Topic 7C: Update Data in a Report Based on Excel Data