

**Advanced Crystal Reports**

**Course Number:** CR-132
**Duration:** 1 day

**Overview**

Accelebrate's Advanced Crystal Reports course teaches attendees the SQL query writing, function writing, and geographic mapping skills they need to successfully build highly customized reports.

**Prerequisites**

All attendees must be familiar with the basic Crystal Reports skills, as taught in Accelebrate's [Introduction to Crystal Reports](file:////training/crystal-reports-2016) and [Intermediate Crystal Reports](file:////training/crystal-reports-2016-intermediate) classes.

**Materials**

All students receive comprehensive courseware covering all subjects in the course.

**Software Needed on Each Student PC**

* A recent version of Windows (Windows 10 recommended), with the latest service pack updates and at least 8 GB of RAM
* Crystal Reports with the latest updates installed
* Web browser
* Adobe Acrobat Reader for viewing PDF documents
* Optional: Microsoft Excel and Access, version 2007 or later

**Objectives**

* Work with SQL
* Use more advance functions
* Work with geographic mapping

**Outline**

* Introduction
* Crystal Reports Review
	+ Review of Basic Report Building
* Working with SQL
	+ The SELECT Statement
	+ The WHERE Clause
		- Filtering with a WHERE Clause
	+ The ORDER BY Clause
	+ Joins
		- Joining Tables Together
	+ SQL Commands
	+ SQL Expressions
* Advanced Functions
	+ Evaluation Time Functions
	+ Working with Variables
	+ For Loops
	+ While Do Loops
		- Working with Variables and Loops
* Geographic Mapping
	+ Geographic Maps
		- Map Basics
		- Adding a Geographic Chart
* Conclusion