

Course HC455 - SQL Server 2005 Reporting Services Boot Camp

This three-day course provides students with the skills needed to implement reporting solutions using Microsoft SQL Server 2005 Reporting Services.

Reporting Services is an enterprise-ready reporting platform that supports end-to-end report development, management, and delivery with newly added interactive features and ad hoc reporting capabilities for end users.

By learning the details behind data sources, data sets, parameters, management, security, and working with the more advanced features of Reporting Services, students will achieve a complete understanding of how to use Reporting Services to create and manage reports.

At the end of this class, students should be able to build real-world applications for their businesses that give users useful reports and analysis information.

This course is written and taught by:



At Course Completion

At the end of this class, students should be able to build real-world applications for their businesses that give users useful reports and analysis information.

At course completion, you will be able to:

- Recognize the characteristics of a reporting platform
- List the constituents of reporting user communities
- Describe stages of the reporting lifecycle
- Prepare your technical infrastructure for a successful installation
- Install reporting services
- Use the Report Designer wizards to create a simple tabular report
- Publish a report solution
- Use Report manager to manage report properties
- Use the HTML Viewer to access and export a report
- Add a new report to a project
- Define data for a report
- Edit properties of report items
- Use global objects collection in expressions
- Create expressions with aggregate functions

- Change the report appearance with expressions
- Represent data in a cross-tabular form by using matrix
- Create a report parameter to use as a variable for calculating values in a report
- Pass a report parameter to a query to filter data at the source
- Work with hierarchical data
- Create a report model project to support ad-hoc reporting
- Use the Report Model Wizard to auto-generate a model
- Use Visual Studio to format, reorganize, and extend a report model
- Deploy and secure a report model
- Publish report definitions to the Report Server
- Create a linked report
- Control report execution with report properties
- Manage security
- Monitor Reporting Services performance with execution logging
- Manage the Reporting Services databases
- Use Report manager's navigation features
- Add contents to My Reports folder
- Render reports
- Manage subscriptions
- Use custom code in expressions
- Create a custom data processing extension
- Use the RS utility to manage Report Server contents
- Use URL to access reports and other items from Report ServerAdd parameters to a URL

Certified Professional Exams

There is no exam associated with this course.

Prerequisites

This course is intended for all types of reporting users including server and content managers, designers, and developers who are responsible for the design, implementation, and maintenance of reporting solutions.

To get the most out of this course you should have:

- An understanding of basic relational database concepts
- Some exposure to Microsoft Visual Studio
- Some knowledge of the following is also helpful, but not required:
 - Microsoft SQL Server 2000
 - Basic TSQL syntax
 - Microsoft Visual Basic
 - Windows Script programming principles
 - Basic XML

The course materials, lectures, and lab exercises are in English. To benefit fully from our instruction, students need an understanding of the English language and completion of the prerequisites.

Course Outline

This three day, instructor-led course introduces students to the full range of Reporting Services roles and capabilities, including new features in Reporting Services introduced with SQL Server 2005. Beginning with an overview of Reporting Services, the course takes students through authoring and managing reports, deployment considerations and ad hoc reporting capabilities with Reporting Services.

- **Reporting Services from 500 Feet** - Begin the course with a comprehensive introduction to Microsoft Reporting Services that follows the stages of the reporting lifecycle - authoring, management, and delivery. Learn how to design reports with Report Designer and administer reports with Report Manager.
- **Authoring Reports** - Learn the basics of report design with table reports. Find out how to set up a data source and dataset. Make reports easy to navigate by adding drill down, document maps, actions. Find out how and when to create page, report, and table headers and footers. Use expressions in a variety of report design situations: aggregating data, creating conditional formatting, and adding custom fields. Explore new features such as working with expressions, multi-value report parameters, interactive sorting, and floating headers.

- **Exploring Data Regions** - Learn how to use table, matrix, list, sub-reports, and chart data regions as well as the practical application of each.
- **Manipulating Datasets** - Build parameterized reports using query parameters and filters. Discover how to use stored procedures and user defined functions to build dynamic reports. Find out how to build a report that displays recursive hierarchies. Create a report from an Analysis Services cube.
- **Managing Content** - Learn how to use Report Manager to publish content to the report server for public consumption, organize content into folders, and configure data settings. Learn techniques for setting up report execution settings - on demand, cached instances and snapshots. Deliver reports via standard and data driven subscriptions using file share and email.
- **Administering Security** - Secure Reporting Services using item security, system security, and data security features.
- **Administering Reporting Services Components** - Learn how to administer and monitor report executions and subscriptions. Find out how and when to manipulate the server configuration files. Identify the key components of database administration.
- **Reporting On Demand** - Extend access to information by adding ad hoc reporting to your reporting platform. Learn how to build a report model that encapsulates the key relationships between data elements and simplifies data access for end users. Create a report using Report Build and explore using Infinite Click-through.