

# Ultimate Bootcamp®

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## SQL Server 2008 Business Intelligence MCTS Ultimate Bootcamp

### Overview

This five-day, extended hours, instructor-led bootcamp teaches students how to implement an Integration Services, Analysis Services, and Reporting Services solution in an organization. Next, the bootcamp discusses how to develop, deploy, and manage Integration Services packages. The bootcamp also discusses how to use the Analysis Services development tools to create an Analysis Services database and an OLAP cube, and how to use the Analysis Services management and administrative tools to manage an Analysis Services solution. Finally, the bootcamp discusses how to use the Reporting Services development tools to create reports, and how to use the Reporting Services management and administrative tools to manage a Reporting Services solution.

**This bootcamp prepares students for exam 70-448 TS: Microsoft SQL Server 2008, Business Intelligence Development and Maintenance.**

### Audience

This course is intended for information technology (IT) professionals and developers who need to implement integration services, analysis services, and reporting services solutions by using Microsoft SQL Server 2008 Integration Services (SSIS), Analysis Services (SSAS), and Reporting Services (SSRS).

### Prerequisites

Before attending this course, students must have:

- Exposure to enterprise data import and export scenarios.
- Conceptual understanding of OLAP solutions.
- Exposure to creating reports in Microsoft Access or other third-party reporting products, such as Crystal Reports.
- Conceptual understanding of the push and pull distribution/subscription paradigm.
- Experience navigating the Microsoft Windows Server environment.
- Experience with Windows services (starting and stopping)
- Experience creating service accounts and permissions
- Experience with Microsoft SQL Server, including:
  - SQL Server Agent.
  - SQL Server query language (SELECT, UPDATE, INSERT, and DELETE).
  - SQL Server System tables.
  - SQL Server accounts (users and permissions)

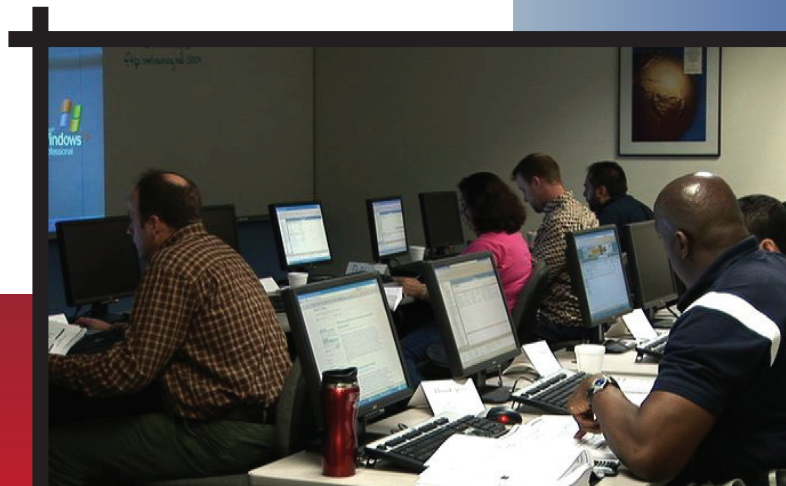
### Course Objectives

**After completing this course, students will be able to:**

- Describe SQL Server Integration Services and its tools.
- Create an Integration Services package.
- Implement control flow in an Integration Services package.
- Implement data flow in an Integration Services package.
- Implement logging in an Integration Services package.
- Debug and implement error handling in an Integration Services package.
- Implement checkpoints and transactions in an Integration Services package.
- Deploy an Integration Services package.
- Manage and secure an Integration Services package.
- Describe how SQL Server Analysis Services can be used to implement analytical solutions.
- Create multidimensional analysis solutions with SQL Server Analysis Services.
- Implement dimensions and cubes in an Analysis Services solution.
- Implement measures and measure groups in an Analysis Services solution.
- Query a multidimensional Analysis Services solution.
- Customize an Analysis Services cube.
- Deploy and secure an Analysis Services database.
- Maintain a multidimensional Analysis Services solution.
- Implement a Data Mining solution.
- Describe SQL Server Reporting Services and its components.
- Create a Reporting Services report.
- Enhance a Reporting Services report.
- Create and manipulate data sets.
- Use report models to implement reporting for business users.
- Configure report publishing and execution settings.
- Implement subscriptions for reports.
- Administer Reporting Services.
- Implement custom Reporting Services applications.

SQL SERVER 2008  
BI MCTS

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## SQL Server 2008 Business Intelligence MCTS Ultimate Bootcamp

### Course Outline

#### SQL Server Integration Services (SSIS)

##### Module 1: Introduction to SQL Server 2008 Integration Services

###### Lessons

- Overview of SQL Server Integration Services
- Using Integration Services Tools

##### Module 2: Developing Integration Services Solutions

###### Lessons

- Creating an Integration Services Solution
- Using Variables
- Building and Running a Solution

##### Module 3: Implementing Control Flow

###### Lessons

- Control Flow Tasks
- Control Flow Precedent Constraints
- Control Flow Containers

##### Module 4: Implementing Data Flow

###### Lessons

- Data Flow Sources and Destinations
- Basic Data Flow Transformations
- Advanced Data Flow Transformations
- Data Flow Paths

##### Module 5: Implementing Logging

###### Lessons

- Overview of Integration Services Logging
- Enabling and Configuring Logging

##### Module 6: Debugging and Error Handling

###### Lessons

- Debugging a Package
- Implementing Error Handling

##### Module 7: Implementing Checkpoints and Transactions

###### Lessons

- Implementing Checkpoints
- Implementing Transactions

##### Module 8: Configuring and Deploying Packages

###### Lessons

- Package Configurations
- Deploying Packages

##### Module 9: Managing and Securing Packages

###### Lessons

- Managing Packages
- Securing Packages

#### SQL Server Analysis Services (SSAS)

##### Module 1: Introduction to Microsoft SQL Server Analysis Services

###### Lessons

- Overview of Data Analysis Solutions
- Overview of SQL Server Analysis Services
- Installing SQL Server Analysis Services

##### Module 2: Creating Multidimensional Analysis Solutions

###### Lessons

- Developing Analysis Services Solutions
- Creating Data Sources and Data Source Views
- Creating a Cube

##### Module 3: Working with Cubes and Dimensions

###### Lessons

- Configuring Dimensions
- Defining Attribute Hierarchies
- Sorting and Grouping Attributes

##### Module 4: Working with Measures and Measure Groups

###### Lessons

- Working With Measures
- Working with Measure Groups

##### Module 5: Querying Multidimensional Analysis Solutions

###### Lessons

- MDX Fundamentals
- Adding Calculations to a Cube

##### Module 6: Customizing Cube Functionality

###### Lessons

- Implementing Key Performance Indicators
- Implementing Actions
- Implementing Perspectives
- Implementing Translations

##### Module 7: Deploying and Securing an Analysis Services Database

###### Lessons

- Deploying an Analysis Services Database
- Securing an Analysis Services Database

##### Module 8: Maintaining a Multidimensional Solution

###### Lessons

- Configuring Processing
- Logging, Monitoring, and Optimizing an Analysis Services Solution
- Backing Up and Restoring an Analysis Services Database

##### Module 9: Introduction to Data Mining

###### Lessons

- Overview of Data Mining
- Creating a Data Mining Solution
- Validating Data Mining Models

#### SQL Server Reporting Services (SSRS)

##### Module 1: Introduction to Microsoft SQL Server Reporting Services

###### Lessons

- Overview of SQL Server Reporting Services
- Installing Reporting Services
- Reporting Services Tools

##### Module 2: Authoring Basic Reports

###### Lessons

- Creating a Basic Table Report
- Formatting Report Pages
- Calculating Values

##### Module 3: Enhancing Basic Reports

###### Lessons

- Interactive Navigation
- Displaying Data

##### Module 4: Manipulating Data Sets

###### Lessons

- Defining Report Data
- Using Parameters and Filters
- Using Parameter Lists

##### Module 5: Using Report Models

###### Lessons

- Creating Report Models
- Using Report Builder

##### Module 6: Publishing and Executing Reports

###### Lessons

- Publishing Reports
- Executing Reports
- Creating Cached Instances
- Creating Snapshots and Report History

##### Module 7: Using Subscriptions to Distribute Reports

###### Lessons

- Introduction to Report Subscriptions
- Creating Report Subscriptions
- Managing Report Subscriptions

##### Module 8: Administering Reporting Services

###### Lessons

- Reporting Server Administration
- Performance and Reliability Monitoring
- Administering Report Server Databases
- Security Administration
- Upgrading to Reporting Services 2008

##### Module 9: Programming Reporting Services

###### Lessons

- Querying for Server Information Using a Web Service
- Automating Report Management
- Rendering Reports
- Creating Custom Code