

## HC450: SQL Server 2005 Business Intelligence Bootcamp

### Overview

With the release of SQL Server 2005, Microsoft has completely re-architected their Business Intelligence (BI) platform. Veteran BI professionals who want to upgrade their skills and newcomers alike will learn how to apply key BI concepts using the new 2005 Integration Services (formerly DTS), Analysis Services, and Reporting Services.

Through instructor-led sessions and hands-on exercises, students will develop an understanding of what has changed and what is new in the 2005 BI SQL Server architecture. Students will learn how to develop applications using the new Business Intelligence Development Studio environment, how to use the new Integration Services tasks and transformations, how to build dimensions and cubes for analytical applications, how to take advantage of the new features in Reporting Services, how to use MDX in queries and formulas, and how to work with the new Data Mining models and tools. Students will be able to immediately apply this knowledge to their real-world databases and BI applications in preparation for the transition to SQL Server 2005.

### Audience

This course is intended for business analysts, database developers, database administrators, and database architects who are responsible for the design, implementation, and maintenance of Business Intelligence applications.

### Prerequisites

Students should meet the following prerequisites:

- Have an understanding of Business Intelligence principles and concepts.
- Be familiar with basic relational database design, administration, and implementation concepts.

### Duration

5 Days

### Course Outline

Introduction to SQL Server 2005 BI

- **Business Intelligence Fundamentals:** Discusses key BI system considerations, compares relational, OLAP, and data mining reporting, and reviews alternatives for a reporting infrastructure.
- **Working with Integration Services:** Shows how to use the SSIS Import And Export Wizard and explains the difference between Control Flow And Data Flow in packages.
- **Creating Your First Cube:** Demonstrates how to build an Analysis Services cube by adding a data source, creating a data source view, and building a dimension.
- **Building A Report:** Explains how to use the Reporting Services Report Wizard and the MDX Query Builder to create an interactive report.

## Integration Services

- **Building Your First Package:** Shows how to start a new Integration Services project, how to add a data flow task to a project, and how to work with connection managers.
- **Adding Transformations:** Covers new transformations and tasks to split data to multiple destinations, to enhance data with derived columns, and to find matching data with a fuzzy lookup.
- **Using Advanced Features:** Demonstrates how to control workflow through scripting, organize tasks with containers, use variables, loop through multiple files, and use a data viewer for debugging a package.
- **Deploying Your Package:** Addresses deployment options including the use of a configuration file for package reuse under multiple conditions.
- **Migrating a DTS 2000 Package:** Discusses what to expect by using the Migration Wizard and how to enhance a migrated package.

## Analysis Services

- **Understanding the Benefits of OLAP:** Examines the role of OLAP as compared to database queries and spreadsheet formulas.
- **Working with Dimensions:** Allows students to build different types of dimensions, including role-playing dimensions and parent-child dimensions, as well as add user hierarchies and modify dimension properties.
- **Working with Measure Groups:** Shows how to work with multiple measure groups in a single cube, add calculated members, and use Key Performance Indicators (KPIs) to display trends and analytical results.
- **Deploying A Project:** Covers the alternatives available for deploying a project to the Analysis Server.

## Analysis Services Scalability

- **Building Partitions:** Discusses the use of partitioning and alternatives for implementing partitioning.
- **Using The Aggregation Wizard:** Reviews the role of aggregations in OLAP and shows how to use the Aggregation Wizard and inspect the results.

## Reporting Services

- **Report Authoring Basics:** Provides a complete review of report development, including working with datasets and data regions as well as new features for working with expressions, report parameters, and other interactive features.
- **Report Management Options:** Shows how to organize and secure published reports on the Report Server and explains how to migrate from Reporting Services 2000.
- **Report Delivery Options:** Demonstrates how to access reports online and introduces new features.
- **Report Builder:** Allows students to build a report model to support ad hoc reporting as well as how to use the features included with this new ad hoc reporting tool.

## MDX

- Working with MDX: Compares SQL to MDX to provide a foundation for better understanding the MDX query language and shows how to use MDX in queries and formulas.

## Data Mining

- Learning about Data Mining: Introduces the new data mining algorithms and explains how to build and use a data mining model

### **For more information and details on course schedules please contact:**

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