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Course Name: SQL Server 2005 for Business Intelligence

Duration: 15 days

Training Location: Nota Asia (M) Sdn Bhd, Subang
Jaya / KL Plaza

SQL SERVER 2005 FOR BUSINESS INTELLIGENCE

Modules Details / Curriculum

- Implementing and Maintaining Microsoft SQL Server 2005 Analysis
 - Implementing and Maintaining Microsoft SQL Server 2005 Integration Services
 - Implementing and Maintaining Microsoft SQL Server 2005 Reporting Services
- (Course outline as enclosed)*

Target Audience

This course is intended for information technology (IT) professionals and developers who need to:-

- Implement analysis solutions by using Microsoft SQL Server 2005 Analysis Services.
- Implement data transfer or extract, transform, and load (ETL) solutions by using Microsoft SQL Server 2005 Integration Services.
- Implement reporting solutions by using Microsoft



MSC Malaysia via its K-Workers Development Initiatives (KDI) is driving the provision of last mile skills training to potential knowledge workers (k-workers) for the ICT industry. Trainings are currently done through partnership with training providers appointed by Multimedia Development Corporation (MDeC).

MSC Malaysia Job Camp, a KDI programme, provides fresh graduates and available k-workers the necessary training to fill immediate vacancies in MSC, Malaysia Status companies.

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In Collaboration

SQL Server 2005 for Business Intelligence

Duration: 15 days

Introduction

This three-day instructor-led course teaches students how to implement an Analysis Services solution in an organization. The course 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.

This three-day instructor-led course teaches students how to implement an Integration Services solution in an organization. The course discusses how to develop, deploy, and manage Integration Services packages.

This three-day instructor-led course teaches students how to implement a Reporting Services solution in an organization. The course 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.

Audience

This course is intended for information technology (IT) professionals and developers who need to implement analysis solutions by using Microsoft SQL Server 2005 Analysis Services.

This course is intended for information technology (IT) professionals and developers who need to implement data transfer or extract, transform, and load (ETL) solutions by using Microsoft SQL Server 2005 Integration Services.

This course is intended for information technology (IT) professionals and developers who need to implement reporting solutions by using Microsoft SQL Server 2005 Reporting Services.

At Course Completion

After completing this course, students will be able to:

- Describe how SQL Server Analysis Services can be used to implement analytical solutions.
- Create multidimensional analysis solutions with SQL Server Analysis Services.
- Implement dimensions 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 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 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.

Course Outline

Module 1: Introduction to Microsoft SQL Server 2005 Analysis Services

This module introduces common analysis scenarios and describes how Analysis Services provides a powerful platform for multidimensional OLAP solutions and data mining solutions. The module then describes the main considerations for installing Analysis Services.

Lessons

- Overview of Data Analysis Solutions
- Overview of SQL Server 2005 Analysis Services
- Installing SQL Server 2005 Analysis Services

After completing this module, students will be able to:

- Describe data analysis solutions.
- Describe the key features of SQL Server 2005 Analysis Services.
- Install SQL Server 2005 Analysis Services.

Module 2: Creating Multidimensional Analysis Solutions

This module introduces the development tools you can use to create an Analysis Services multidimensional analysis solution, and describes how to create data sources, data source views, and cubes.

Lessons

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

Lab 2: Creating a Multidimensional Analysis Solution

- Exercise 1: Creating a Data Source
- Exercise 2: Creating and Modifying a Data Source View
- Exercise 3: Creating and Modifying a Cube

After completing this module, students will be able to:

- Develop Analysis Services solutions.
- Create a data source and a data source view.
- Create a cube.

Module 3: Working with Dimensions

This module describes how to edit dimensions and to configure dimensions, attributes, and hierarchies.

Lessons

- Configuring Dimensions
- Defining Hierarchies
- Sorting and Grouping Attributes

Lab 3: Defining Dimensions

- Exercise 1: Configuring Dimensions
- Exercise 2: Defining Relationships and Hierarchies
- Exercise 3: Sorting and Grouping Dimension Attributes

After completing this module, students will be able to:

- Configure dimensions.
- Define hierarchies.
- Sort and group attributes.

Module 4: Working with Measures and Measure Groups

This module explains how to edit and configure measures and measure groups.

Lessons

- Working with Measures
- Working with Measure Groups

Lab 4: Configuring Measures and Measure Groups

- Exercise 1: Configuring Measures
- Exercise 2: Defining Dimension Usage and Relationships
- Exercise 3: Configuring Measure Group Storage

After completing this module, students will be able to:

- Work with measures.
- Work with measure groups.

Module 5: Querying Multidimensional Analysis Solutions

This module introduces multidimensional expressions (MDX) and describes how to implement calculated members and named sets in an Analysis Services cube.

Lessons

- MDX Fundamentals
- Adding Calculations to a Cube

Lab 5: Querying a Cube

- Exercise 1: Querying a Cube by Using MDX
- Exercise 2: Creating a Calculated Member
- Exercise 3: Defining a Named Set

After completing this module, students will be able to:

- Describe Multidimensional Expression (MDX) fundamentals.
- Add calculations to a cube.

Module 6: Customizing Cube Functionality

This module explains how to customize a cube by implementing key performance indicators (KPIs), actions, perspectives, and translations.

Lessons

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

Lab 6: Customizing a Cube

- Exercise 1: Implementing a KPI
- Exercise 2: Implementing an Action
- Exercise 3: Implementing a Perspective
- Exercise 4: Implementing a Translation

After completing this module, students will be able to:

- Implement Key Performance Indicators (KPIs).
- Implement actions.
- Implement perspectives.
- Implement translations.

Module 7: Deploying and Securing an Analysis Services Database

This module describes how to deploy an Analysis Services database to a production server, and how to implement security in an Analysis Services multidimensional solution.

Lessons

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

Lab 7: Deploying and Securing an Analysis Services Database

- Exercise 1: Deploying an Analysis Services Database
- Exercise 2: Securing an Analysis Services Database

After completing this module, students will be able to:

- Deploy an Analysis Services database.
- Secure an Analysis Services database.

Module 8: Maintaining a Multidimensional Solution

This module discusses the maintenance tasks associated with an Analysis Services solution, and describes how administrators can use the Analysis Services management tools to perform them.

Lessons

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

Lab 8: Maintaining an Analysis Services Database

- Exercise 1: Configuring Processing
- Exercise 2: Implementing Logging and Monitoring
- Exercise 3: Backing Up and Restoring an Analysis Services Database

After completing this module, students will be able to:

- Configure processing settings.
- Log, monitor, and optimize an Analysis Services solution.
- Back up and restore an Analysis Services database.

Module 9: Introduction to Data Mining

This module introduces data mining, and describes how to implement data mining structures and models. It then explains how to validate data model accuracy.

Lessons

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

Lab 9: Implementing Data Mining

- Exercise 1: Creating a Data Mining Structure
- Exercise 2: Adding a Data Mining Model
- Exercise 3: Exploring Data Mining Models
- Exercise 4: Validating Data Mining Models

After completing this module, students will be able to:

- Describe data mining.
- Create a data mining solution.
- Validate data mining models.

Module 10: Introduction to SQL Server 2005 Integration Services

This module introduces the role that Integration Services plays in extracting, transforming, and loading data. This module also describes the tools that you can use to build and manage Integration Services solutions.

Lessons

- Overview of Integration Services Solutions
- Integration Services Tools

Lab 10: Using SQL Server Integration Services

- Exercise 1: Using the Import and Export Wizard
- Exercise 2: Running an Integration Services Package

After completing this module, students will be able to:

- Describe Integration Services solutions.
- Use Integration Services tools.

Module 11: Developing Integration Services Solutions

This module provides an overview of the development tasks that are involved in creating an Integration Services package. After completing this module, you will be able to create a basic package.

Lessons

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

Lab 11: Implementing an Integration Services Solution

- Exercise 1: Creating an Integration Services Project
- Exercise 2: Implementing a Package
- Exercise 3: Building and Running an Integration Services Project

After completing this module, students will be able to:

- Create a SQL Server Integration Services solution.
- Use variables.
- Build and run a solution.

Module 12: Implementing Control Flow

This module introduces the tasks and precedence constraints that you can use to implement control flow in an Integration Services package.

Lessons

- Control Flow Tasks
- Control Flow Precedence Constraints
- Control Flow Containers

Lab 12: Implementing Control Flow

- Exercise 1: Creating a Simple Control Flow
- Exercise 2: Configuring Precedence Constraints
- Exercise 3: Using Containers

After completing this module, students will be able to:

- Configure control flow tasks.

- Configure control flow precedence constraints.
- Configure control flow containers.

Module 13: Implementing Data Flow

This module describes the data flow sources, transformations, and destinations that you can use to implement a data flow task in an Integration Services control flow. It also explains how to use data flow paths to direct valid and invalid rows through the data flow.

Lessons

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

Lab 13: Implementing Data Flows

- Exercise 1: Transferring Data
- Exercise 2: Implementing Transformations
- Exercise 3: Using Data Viewers
- Exercise 4: Configuring Error Output

After completing this module, students will be able to:

- Implement data flow sources and destinations.
- Implement data flow transformations.
- Implement data flow paths.

Module 14: Implementing Logging

This module discusses how to use logging in an Integration Services package, and explains how to configure and use logging providers to generate information about a package's execution.

Lessons

- Overview of Integration Services Logging
- Implementing Logging

Lab 14: Implementing Logging

- Exercise 1: Configuring Logging
- Exercise 2: Implementing Custom Logging

After completing this module, students will be able to:

- Describe Integration Services logging.
- Implement logging.

Module 15: Debugging and Error Handling

This module describes how to debug Integration Services packages by using the debugging tools in Business Intelligence Development Studio. It then explains how to implement error-handling logic in an Integration Services package.

Lessons

- Debugging a Package
- Implementing Error Handling

Lab 15: Debugging and Error Handling

- Exercise 1: Debugging a Package
- Exercise 2: Implementing Error Handling
- Exercise 3: Controlling Failure Behavior

After completing this module, students will be able to:

- Debug a package.
- Implement error handling.

Module 16: Implementing Checkpoints and Transactions

This module explains what checkpoints are and how to implement them. It then discusses transactions, and describes how you can implement transactional data access logic in an Integration Services package.

Lessons

- Implementing Checkpoints
- Implementing Transactions

Lab 16: Implementing Checkpoints and Transactions

- Exercise 1: Implementing Checkpoints in a Package
- Exercise 2: Implementing Transactions in a Package
- Exercise 3: Implementing a Native Transaction

After completing this module, students will be able to:

- Implement checkpoints.
- Implement transactions.

Module 17: Deploying Packages

This module discusses how to create Package Configurations and how to deploy Integration Services packages to production servers.

Lessons

- Package Configurations
- Deploying Packages

Lab 17: Deploying Integration Services Packages

- Exercise 1: Creating a Package Configuration
- Exercise 2: Preparing a Package for Deployment
- Exercise 3: Deploying a Package

After completing this module, students will be able to:

- Implement package configurations.

- Deploy packages.

Module 18: Managing and Securing Packages

This module describes the management tasks that relate to Integration Services packages and explains how to perform those tasks by using the Integration Services management tools. It also describes how to secure Integration Services packages.

Lessons

- Managing Packages
- Securing Packages

Lab 18: Managing and Securing Packages

- Exercise 1: Importing a Package
- Exercise 2: Configuring and Executing a Package
- Exercise 3: Scheduling a Package
- Exercise 4: Securing a Package

After completing this module, students will be able to:

- Manage packages.
- Secure packages.

Module 19: Introduction to Microsoft SQL Server Reporting Services

This module introduces the role that Reporting Services plays in an organization's reporting life cycle, the key features offered by Reporting Services, and the components that make up the Reporting Services architecture.

Lessons

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

Lab 19: Using Reporting Services Tools

- Exercise 1: Exploring Report Designer
- Exercise 2: Exploring Report Manager

After completing this module, students will be able to:

- Describe the features of SQL Server Reporting Services.
- Install Reporting Services.
- Describe the Reporting Services tools.

Module 20: Authoring Basic Reports

This module introduces the fundamentals of report authoring, including configuring data sources and data sets, creating tabular reports, summarizing data, and applying basic formatting.

Lessons

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

Lab 20: Creating a Simple Report

- Exercise 1: Creating a Basic Table Report
- Exercise 2: Formatting Report Pages
- Exercise 3: Adding Calculated Values

After completing this module, students will be able to:

- Create a basic table report.
- Format report pages.
- Calculate values for a report.

Module 21: Enhancing Basic Reports

This module introduces navigational controls and some additional types of data regions, and discusses how to use them to enhance a basic report.

Lessons

- Interactive Navigation
- Displaying Data

Lab 21: Enhancing a Report

- Exercise 1: Using Dynamic Visibility
- Exercise 2: Using Document Maps
- Exercise 3: Initiating Actions
- Exercise 4: Using a List Data Region

After completing this module, students will be able to:

- Create reports with interactive navigation.
- Display data in various formats.

Module 22: Manipulating Data Sets

This module explores data sets to a greater depth, including the use of alternative data sources and interacting with a data set through the use of parameters. Students learn how to dynamically modify the data set underlying a data region by allowing parameters to be sent to the underlying query. They also learn to use best practices to implement static and dynamic parameter lists when interacting with queries and stored procedures.

Lessons

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

Lab 22: Manipulating Data Sets

- Exercise 1: Using parameters to restrict query results
- Exercise 2: Using parameters to filter report data

- Exercise 3: Creating dynamic parameter lists
- Exercise 4: Using parameters with a stored procedure

After completing this module, students will be able to:

- Define report data.
- Use parameters and filters.
- Use parameter lists.

Module 23: Using Report Models

This module describes how to create a report model so that business users can create their own reports without using the full Report Designer development environment. Students also learn how to use Report Builder to create a report from a report model.

Lessons

- Creating Report Models
- Using Report Builder

Lab 23: Working with Report Models

- Exercise 1: Creating a Report Model
- Exercise 2: Using Report Builder to Create a Report

After completing this module, students will be able to:

- Create Report Models.
- Use Report Builder.

Module 24: Publishing and Executing Reports

This module explains the various options you can use to publish reports to the report server and execute them.

Lessons

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

Lab 24: Publishing and Executing Reports

- Exercise 1: Publishing Reports
- Exercise 2: Executing a Report On Demand
- Exercise 3: Configuring and Viewing a Cached Report
- Exercise 4: Configuring and Viewing a Snapshot Report

After completing this module, students will be able to:

- Publish reports.
- Execute reports.
- Create cached instances.
- Create snapshots and report history.

Module 25: Using Subscriptions to Distribute Reports

This module describes how to implement subscriptions so that you can distribute reports either automatically by e-mail or by publishing reports to a shared folder.

Lessons

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

Lab 25: Implementing Subscriptions

- Exercise 1: Creating a Standard Subscription
- Exercise 2: Creating a Data-Driven Subscription

After completing this module, students will be able to:

- Describe report subscriptions.
- Create report subscriptions.
- Manage report subscriptions.

Module 26: Administering Reporting Services

This module discusses how to administer the Reporting Services server, how to monitor and optimize the performance of the report server, how to maintain the Reporting Services databases, and how to keep the system secure.

Lessons

- Server Administration
- Performance and Reliability Monitoring
- Administering Report Server Databases
- Security Administration

Lab 26: Administering Reporting Services

- Exercise 1: Using Reporting Services Configuration Manager
- Exercise 2: Securing a Reporting Services Site
- Exercise 3: Securing Items

After completing this module, students will be able to:

- Administer the reporting server.
- Monitor performance and reliability.
- Administer the Report Server databases.
- Administer security.

Module 27: Programming Reporting Services

This module explains how to query Reporting Services information programmatically and how to automate report management tasks. Students also learn how to render reports without relying on Report Manager, and how you can extend the feature set of a report server by creating custom code.

Lessons

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

Lab 27: Programming Reporting Services

- Exercise 1: Using URL Access to Display a Report
- Exercise 2: Building a Reporting Services Web Service Client
- Exercise 3: Using the Report Viewer Control

After completing this module, students will be able to:

- Query server information by using a Web service.
- Automate report management.
- Render reports.
- Create custom code.

Course Structure

Week	Day	Module
1	1	Pre-Test, 1, 2, 3, Discussions, Group activities
	2	4, 5, 6, Discussions, Group activities
	3	7, 8, 9, Discussions, Group activities
	4	10, 11, 12, Discussions, Group activities
	5	13, 14, Discussions, Group activities
2	1	15, 16, 17, Discussions, Group activities
	2	18, 19, 20, Discussions, Group activities
	3	21, 22, 23, Discussions, Group activities
	4	24, 25, Discussions, Group activities
	5	26, 27, Post-Test, Discussions, Group activities
3	1	Project Day 1
	2	Project Day 2
	3	Project Day 3
	4	Project Day 4
	5	Project Presentation

References

1. Course 2791: Implementing and Maintaining Microsoft SQL Server 2005 Analysis Services (three days)
 This three-day instructor-led course teaches students how to implement an Analysis Services solution in an organization. The course 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.
<http://www.microsoft.com/learning/syllabi/en-us/2791afinal.msp>

2. Course 2792: Implementing and Maintaining Microsoft SQL Server 2005 Integration Services (three days)
This three-day instructor-led course teaches students how to implement an Integration Services solution in an organization. The course discusses how to develop, deploy, and manage Integration Services packages.
<http://www.microsoft.com/learning/syllabi/en-us/2792afinal.aspx>
3. Course 2793: Implementing and Maintaining Microsoft SQL Server 2005 Reporting Services (three days)
This three-day instructor-led course teaches students how to implement a Reporting Services solution in an organization. The course 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.
<http://www.microsoft.com/learning/syllabi/en-us/2793afinal.aspx>