5 Days

20767B: Implementing a SQL Data Warehouse

The five-days Microsoft 20767B Implementing a SQL Data Warehouse Certification Course is part 1 of the series of two courses of MCSA 2016: SQL Business Intelligence Development, that validates your skills to create and deploy a data warehouse with Microsoft SQL Server 2016 and Azure SQL Data Warehouse for efficiently implementing the ETL as well as SQL Services.

This course is intended for database professionals who support Business Intelligence solutions, engaged in implanting, validating and cleansing data warehouses.

This course qualifies you for the exam 70-767: Implementing a SQL Data Warehouse Certification.

Course Details

Course Outline

Module 1: Introduction to Data Warehousing

This module introduces the data warehouse concepts and architecture considerations.

Lessons

- Data Warehousing Overview
- Considerations for a Data Warehouse Solution

Module 2: Planning Data Warehouse Infrastructure

This module introduces the main hardware considerations for building a data warehouse.

Lessons

- Data Warehouse Reference Architectures and Appliances
- Data Warehouse Building Considerations

Module 3: Designing and Implementing a Data Warehouse

This module explains how you go about designing and implementing a schema for a data warehouse.

Lessons

- Physical Design for a Data Warehouse
- Logical Design for a Data Warehouse

Module 4: Column store Indexes

This module explains the Columnstore Indexes.

Lessons

- Introduction to Columnstore Indexes
- Creating Columnstore Indexes
- Working with Columnstore Indexes

Module 5: Implementing an Azure SQL Data Warehouse

This module introduces Azure SQL Data Warehouses and how to implement them.

Lessons

- Advantages of Azure SQL Data Warehouse
- Developing an Azure SQL Data Warehouse
- Migrating to an Azure SQ Data Warehouse
- Implementing an Azure SQL Data Warehouse

Module 6: Creating an ETL Solution

This module will enable you to implement data flow in an SSIS package.

Lessons

- ETL with SSIS Introduction
- Exploring Source Data
- Implementing Data Flow

Module 7: Implementing Control Flow in an SSIS Package

This module discusses the implementation of control flow in an SSIS package.

Lessons

- Control Flow Introduction
- Creating Dynamic Packages
- Using Containers

Module 8: Debugging and Troubleshooting SSIS Packages

This module explains how to debug and troubleshoot SSIS packages.

Lessons

- Logging SSIS Package Events
- Debugging an SSIS Package
- Handling Errors in an SSIS Package

Module 9: Implementing an Incremental ETL Process

This module explains how to implement an SSIS solution that supports incremental DW loads and changing data.

Lessons

- Introduction to Incremental ETL
- Extracting Modified Data
- Temporal Tables

Module 10: Enforcing Data Quality

This module explains how to implement data cleansing by using Microsoft Data Quality services.

Lessons

- Introduction to Data Quality
- Using Data Quality Services to Match Data
- Using Data Quality Services to Cleanse Data

Module 11: Using Master Data Services

This module explains how to implement master data services to enforce data integrity at source.

Lessons

- Creating a Master Data Hub
- Master Data Services Concepts
- Managing Master Data
- Implementing a Master Data Services Model

Module 12: Extending SQL Server Integration Services (SSIS)

This module explains how to extend SSIS with custom scripts and components.

Lessons

- Using Custom Components in SSIS
- Using Scripting in SSIS

Module 13: Deploying and Configuring SSIS Packages

This module explains how to deploy and configure SSIS packages.

Lessons

- Overview of SSIS Deployment
- Planning SSIS Package Execution
- Deploying SSIS Projects

Module 14: Consuming Data in a Data Warehouse

This module explains how to debug and troubleshoot SSIS packages.

Lessons

- Introduction to Business Intelligence
- Introduction to Reporting
- An Introduction to Data Analysis
- Analyzing Data with Azure SQL Data Warehouse

Who Should Attend

SQL Server Data Warehouse training course is intended for database professionals who need to accomplish a Business Intelligence Developer role. They will be required to exhibit hands-on work creating BI solutions.

Primary responsibilities will include:

- Implementing a data warehouse.
- Enforcing data integrity by using Master Data Services.
- Cleansing data by using Data Quality Services.
- Developing SSIS packages for data extraction, transformation, and loading.

Pre Requisite

The course requires professionals and learners to meet the following prerequisites:

At least 2 years' experience of relevant experience with relational databases, including:

- Designing a normalized database.
- Querying with Transact-SQL.
- Creating tables and relationships.
- Some exposure to basic programming constructs (such as looping and branching).

Exams

Implementing a SQL Data Warehouse Certification [70-767]

464, Udyog Vihar Phase V,Gurgaon (Delhi NCR)-122016,India	+91 8882 233 777	training@mercury.co.in	www.mercurysolutions.co

Date - Oct 30, 2026