

Implementing a SQL Data Warehouse

This five-day instructor-led course provides students with the knowledge and skills to provision a Microsoft SQL Server database. The course covers SQL Server provision both on-premise and in Azure, and covers installing from new and migrating from an existing install

Who Should Attend

The primary audience for this course are database professionals who need to fulfil a Business Intelligence Developer role. They will need to focus on hands-on work creating BI solutions including Data Warehouse implementation, ETL, and data cleansing.

Course Prerequisites

Before attending this course, participants should have:

- > Basic knowledge of the Microsoft Windows operating systems and its core functionality
- > Working knowledge of Relational Databases
- > Some experience with Database Design

Course Objectives

After completing this course, participants will be able to, among other things:

- > Describe the key elements of a data warehousing solution
- > Implement logical & physical design for a data warehouse
- > Implement an Azure SQL Data Warehouse
- > Describe key features of SSIS
- > Implement control flow using tasks and precedence constraints
- > Debug SSIS Packages
- > Implement Data Quality Services
- > Deploy SSIS Projects

Course Code: 20767C
Course Duration: 5 Days
SATV: Yes

Course Summary

- Module 1: Introduction to Data Warehousing
- Module 2: Planning Data Warehouse Infrastructure
- Module 3: Designing & Implementing a Data Warehouse
- Module 4: Columnstore Indexes
- Module 5: Implementing an Azure SQL Data Warehouse
- Module 6: Creating an ETL Solution
- Module 7: Implementing Control Flow in an SSIS Package
- Module 8: Debugging & Troubleshooting SSIS Packages
- Module 9: Implementing a Data Extraction Solution
- Module 10: Enforcing Data Quality
- Module 11: Master Data Services
- Module 12: Extending SQL Server Integration Services
- Module 13: Deploying & Configuring SSIS Packages
- Module 14: Consuming Data in a Data Warehouse



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Course Outline

Module 1: Introduction to Data Warehousing

This module describes data warehouse concepts and architecture consideration

- > Overview of Data Warehousing
- > Consideration for a Data Warehouse Solution

Module 2: Planning Data Warehouse Infrastructure

This module describes the main hardware considerations for building a data warehouse

- > Considerations for Data Warehouse Infrastructure
- > Planning Data Warehouse Hardware

Module 3: Designing & Implementing a Data Warehouse

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

- > Data warehouse design overview
- > Designing Dimension Tables
- > Designing Fact Tables
- > Physical Design for a Data Warehouse

Module 4: Columnstore Indexes

This module introduces Columnstore Indexes

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

Module 5: Implementing an Azure SQL Data Warehouse

This module describes Azure SQL Data Warehouses and how to implement them

- > Advantages of Azure SQL Data Warehouse
- > Implementing an Azure SQL Data Warehouse
- > Developing an Azure SQL Data Warehouse
- > Migration to an Azure SQL Data Warehouse
- > Copying Data with the Azure Data Factory

Module 6: Creating an ETL Solution

At the end of this module you will be able to implement data flow in a SSIS package

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

Module 7: Implementing Control Flow in an SSIS Package

This module describes implementing control flow in an SSIS package.

- > Introduction to Control Flow
- > Creating Dynamic Packages
- > Using Containers
- > Managing Consistency

Module 8: Debugging & Troubleshooting SSIS Packages

This module describes how to debug and troubleshoot SSIS packages

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

Module 9: Implementing a Data Extraction Solution

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

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

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Module 10: Enforcing Data Quality

This module describes how to implement data cleansing by using Microsoft Data Quality service

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

Module 11: Using Master Data Services

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

- > Introduction to Master Data Services
- > Implementing a Master Data Services Model
- > Hierarchies & Collections
- > Creating a Master Data Hub

Module 12: Extending SQL Server Integration Services (SSIS)

This module describes how to extend SSIS with custom scripts and components

- > Using Scripting in SSIS
- > Using Custom Components in SSIS

Module 13: Deploying & Configuring SSIS Packages

This module describes how to deploy and configure SSIS packages

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

Module 14: Consuming Data in a Data Warehouse

This module describes how to consume data in a data warehouse

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

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