



COURSE: 20767C Implementing a SQL Data Warehouse

This 5-day instructor led course describes how to implement a data warehouse platform to support a BI solution. Students will learn how to create a data warehouse with Microsoft® SQL Server® and with Azure SQL Data Warehouse, to implement ETL with SQL Server Integration Services, and to validate and cleanse data with SQL Server Data Quality Services and SQL Server Master Data Services.

Summary

Duration: 5 days/ 40 hours

Level: 300*

Delivery method: In class

Language: Bulgarian/English

* The difficulty level is consistent with the widely accepted scale of technical difficulty of training on Microsoft Corp

AUDIENCE:

- 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.

AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Describe the key elements of a data warehousing solution
- Describe the main hardware considerations for building a data warehouse
- Implement a logical design for a data warehouse
- Implement a physical design for a data warehouse
- Create columnstore indexes; Implementing an Azure SQL Data Warehouse
- Describe the key features of SSIS; Implement a data flow by using SSIS
- Implement control flow by using tasks and precedence constraints
- Create dynamic packages that include variables and parameters
- Debug SSIS packages; Describe the considerations for implement an ETL solution
- Implement Data Quality Services; Implement a Master Data Services model
- Describe how you can use custom components to extend SSIS
- Deploy SSIS projects; Describe BI and common BI scenarios

TOPICS:

Module 1: Introduction to Data Warehousing

Module 2: Planning Data Warehouse Infrastructure

Module 3: Designing and 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 and Troubleshooting SSIS Packages

Module 9: Implementing a Data Extraction Solution

Module 10: Enforcing Data Quality

Module 11: Using Master Data Services

Module 12: Extending SQL Server Integration Services (SSIS)

Module 13: Deploying and Configuring SSIS Packages

Module 14: Consuming Data in a Data Warehouse