

COURSE: 20767C 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.

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