



COURSE: 20762C Developing SQL Databases

This five-day instructor-led course provides students with the knowledge and skills to develop a Microsoft SQL Server database. The course focuses on teaching individuals how to use SQL Server product features and tools related to developing a database.

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 is IT Professionals who want to become skilled on SQL Server product features and technologies for implementing a database
- The secondary audiences for this course are individuals who are developers from other product platforms looking to become skilled in the implementation of a SQL Server database

AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Design and Implement Tables; Describe advanced table designs
- Ensure Data Integrity through Constraints
- Describe indexes, including Optimized and Columnstore indexes
- Design and Implement Views; Design and Implement Stored Procedures
- Design and Implement User Defined Functions
- Respond to data manipulation using triggers
- Design and Implement In-Memory Tables
- Implement Managed Code in SQL Server
- Store and Query XML Data; Work with Spatial Data
- Store and Query Blobs and Text Documents

TOPICS:

Module 1: Introduction to Database Development

Module 2: Designing and Implementing Tables

Module 3: Advanced Table Designs

Module 4: Ensuring Data Integrity through Constraints

Module 5: Introduction to Indexes

Module 6: Designing Optimized Index Strategies

Module 7: Columnstore Indexes

Module 8: Designing and Implementing Views

Module 9: Designing and Implementing Stored Procedures

Module 10: Designing and Implementing User-Defined Functions

Module 11: Responding to Data Manipulation via Triggers

Module 12: Using In-Memory Tables

Module 13: Implementing Managed Code in SQL Server

Module 14: Storing and Querying XML Data in SQL Server

Module 15: Storing and Querying Spatial Data in SQL Server

Module 16: Storing and Querying BLOBs and Text Documents in SQL Server

Module 17: SQL Server Concurrency

Module 18: Performance and Monitoring