

## COURSE: SQL Server Cloud Based Solutions

Azure SQL Database is a robust relational database platform for developing, deploying, and managing the data tier in a wide range of cloud-based applications. The SQL Server Cloud based solution class will show you how to take that journey to the cloud one step at a time.

Learn the features and capabilities of Microsoft cloud data platform solutions. Get

a platform overview, and hear about security features, options for high availability, techniques for monitoring and managing cloud data, and more. Plus, get guidance on how to identify tradeoffs and make decisions for designing public and hybrid cloud solutions using Microsoft cloud data platform features.

### Summary

<i>Duration:</i>	<i>3 days/24 hours</i>
<i>Level:</i>	<i>200*</i>
<i>Delivery method:</i>	<i>In class</i>
<i>Language:</i>	<i>Bulgarian</i>
<i>Price:</i>	<i>450 EUR excl VAT</i>

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

### AUDIENCE:

Database Developers, cloud solution developers who develop data tier in the cloud, and also database administrators, who are responsible for creating and managing SQL Server Cloud solutions.

### DESCRIPTION:

The class will teach you how to use SQL Server 2014-2016 to create a hybrid environment and move from an on-premises data center at your own pace. You will understand the database as a service concept and get information about the latest investments in the Azure SQL Database, in the areas of service tiers, performance, scale out, business continuity, security.

### AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Understand the database as a service concept
- Know the scope of cloud data platform features in the cloud.
- Work with Azure SQL Database
- Know SQL database options in Azure, including SQL Server in an Azure virtual machine, and SQL database
- Use proper way to protect data in the cloud
- Monitor and manage a database in the cloud
- Understand the Service Tier Advisor and resource manager
- Understand different scenarios for using Azure for high availability solutions.
- Design scenarios for SQL database in Azure.

### TOPICS:

Module 1: Microsoft Cloud Data Platform Overview

Module 2: SQL Server Azure VM

Module 3: Getting started with Azure SQL Database

Module 4: Migrating SQL Server Databases to Azure

Module 5: Data Security in SQL Cloud solutions

Module 6: High Availability and Disaster Recovery scenarios in Azure

Module 7: Scalability in the cloud - Elastic Database Capabilities of Azure SQL Database

Module 8: Monitoring and Managing SQL Server Cloud solutions

## FUNDAMENTALS

SQL Server Fundamentals courses give you an excellent base for successful career as administrator or data base developer. Their practical purpose, use of scenarios of working practice will help both the beginners, as well as the more experienced students. The courses will assist the students to develop skills to protect in a better way the data of their organizations, to react quicker and adequate to all issues, which are data base related, and to avoid following some harmful myths and wrong concepts in administration and data base development.

- ❖ **MS Windows & AD Administration for DBA's**
- ❖ **Querying SQL Server Fundamentals**
- ❖ **SQL Server Administration Fundamentals**
- ❖ **SQL Server Development Fundamentals**

## MASTERING

The trainings of SQL Server Mastering series consist of intensive modules which are comparatively complicated regarding the technical level and which are designed and intended for professionals in the field of SQL Server. Trainings include solid theoretical material, part of which comes directly from the program team, who develops SQL Server in Microsoft also numerous demonstrations from the "workshop" of SQL Server, unpublished tuning techniques for increase of SQL Server performance.

- ❖ **Mastering SQL Server for Database Admins**
- ❖ **Mastering SQL Server for Database Developers**
- ❖ **SQL Server Performance Tuning and Optimization**

## DEEP DIVE

Deep Dive Series consists two and three day trainings with technical level 300+ (level 100 – beginners, level 400 – masters). Those courses are focused on specific components of SQL Server. They consist of a significant number of practical advices, a lot of demonstrations, huge theoretical part and also examples of real infrastructural solutions, discussions of real situations which students have in their infrastructures and want to discuss.

- ❖ **SQL Server Enterprise Infrastructure Optimization and Deployment**
- ❖ **SQL Server Upgrade**
- ❖ **SQL Server Replication Deep Dive**
- ❖ **SQL Server High Availability and Disaster Recovery Solutions**

## BI

SQL Master Academy works in close partnership with SolidQ in the field of Business Intelligence trainings, due to which fact we have in our portfolio a unique programme of professional trainings in the field of Data Quality, Multidimensional Design, SSAS, ETL and SSIS. The courses train BI developers and designers of BI solutions, including back end EIM, as well as front end and reporting.

- ❖ **Personal Business Intelligence with MS Power BI**
- ❖ **Introduction to MS Business Intelligence**
- ❖ **BI Fundamentals**
- ❖ **Accelerated SQL Server 2012-2016 Integration Services**
- ❖ **Multidimensional Database Design with SSAS 2012-2016**
- ❖ **Data Quality and Master Data Management with SQL Server 2012-2016**
- ❖ **Data Mining Algorithms in SSAS, Excel, R, and Azure ML**

## DATABASE DESIGN

The design of relational data base is one important and inseparable part of the solution development. Those are knowledge and skills which every DB Dev or DB Designer should have. A huge part of the problems in production sphere are due to a not good base model or to such, which does not scale well. The courses for design of relational data base we offer in SQL Master Academy, are oriented not only to mastering of the relational model and the good design of the subject filed, but also to the mastering of good practices in modelling of scalable data base.

- ❖ **Relational Database Design Fundamentals**
- ❖ **Relational Database Design for Performance and Scalability**

## SQL SERVER 2016

Explore the new version of the fastest performing database system in the market today – SQL Server 2016! Be prepared for InMemory OLTP, the new columnstore extensions and the brand new operational analytics possibilities, which can give your workload 30x-100x performance improvement. See how the Query Store, temporals, the new built-in security features and AlwaysOn groups works. Get all that you need to put your skills and your databases on track.

- ❖ **SQL Server 2016 Get Ready for DBA and DB Devs**
- ❖ **SQL Server 2016 for Business Intelligence Experts**
- ❖ **SQL Server Cloud based Solutions**