

## COURSE: SQL Server High Availability and Disaster Recovery Solutions

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 and there are a significant number of practical advices, examples of real infrastructural solutions, discussions of real situations which students have in their infrastructures and want to discuss, a lot of demonstrations and huge theoretical part.

### Summary

<i>Duration:</i>	<i>3 days/ 24 hours</i>
<i>Level:</i>	<i>400*</i>
<i>Delivery method:</i>	<i>In class</i>
<i>Language:</i>	<i>Bulgarian</i>
<i>Price:</i>	<i>650 Euro exc VAT</i>

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

### AUDIENCE:

- This course is designed for experts, who would like to get deeper into technical details on specific platform areas and SQL Server components, like replication or log shipping solutions.

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

- Decide what type and which HA and DR technology to implement
- Understand how the specific availability solution work
- Implement a proper high availability solution or a combination of them
- Manage, maintain, operate and troubleshoot Availability Group configuration
- Monitor and take actions to optimize the solution performance

### TOPICS:

Module 1: HADR Concepts

Module 2: Log Shipping and Database Mirroring

Module 3: SQL Server AlwaysOn Failover Cluster

Module 4: SQL Server AlwaysON Availability Groups

Module 5: Combining and upgrading HADR 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.

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

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

**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.

- ❖ **BI Fundamentals**
- ❖ **Accelerated SQL Server 2012 Integration Services**
- ❖ **Multidimensional Database Design with SSAS**
- ❖ **Data Quality and Master Data Management with SQL Server 2012-2016**
- ❖ **Personal Business Intelligence with MS Power BI**
- ❖ **Introduction to MS Business Intelligence**
- ❖ **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 Get Ready for DBA and DB Devs**
- ❖ **SQL Server 2016 for Business Intelligence Experts**
- ❖ **SQL Server Cloud based Solutions**