

COURSE: Mastering SQL Server for Database Administrators

The courses of SQL Server Mastering series consist intensive and 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the programme team, who develops SQL Server in Microsoft, numerous demonstrations from the "workshop" of SQL Server, unpublished tuning techniques for increase of SQL Server performance.

Summary

<i>Duration:</i>	<i>5 days/ 40 hours</i>
<i>Level:</i>	<i>300*</i>
<i>Delivery method:</i>	<i>In class</i>
<i>Language:</i>	<i>Bulgarian</i>
<i>Price:</i>	<i>950 Euro excl VAT</i>

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

AUDIENCE:

- Professionals in DBA role who manage multiple instances and are responsible for their maintenance
- DB Administrators who work in other platforms

AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Maintain multiple SQL Server instances and complex SQL Server solutions
- Use advanced tools to implement auditing, resource control and encryption
- Find and isolate problems and optimize SQL Server performance
- Configure SQL Server at all levels in order to achieve the maximum performance
- Understand and know the data and index structure internals
- Isolate and find problems that could reduce availability and do proactive steps to avoid them
- Use advanced tools for monitoring and troubleshooting – xEvents, Event Notifications, DMVs
- Work and tune the Policy Based Management, Resource Governor, Auditing
- Find and isolate security subsystem problems, understand why they occur
- Operate replication solutions and HA environments

For more information visit: www.sqlmasteracademy.com

TOPICS:

- Module 1. SQL Server Architecture, SQLOS and Resource Management
- Module 2. SQL Server Data and Index Structures Internals
- Module 3. SQL Server Logging and Transaction Log Internals, SQL Server TempDB
- Module 4. Regular Database Maintenance and Database Advanced Recovery Techniques
- Module 5. Advanced Performance Monitoring and Troubleshooting (Event Notifications, xEvents, DMVs)
- Module 6. Management Optimization Solutions - SQL Server Auditing, DDL Triggers, PBM, RGov
- Module 7. Security Management – Endpoints, Login Troubleshooting, Transparent Data Encryption
- Module 8. MultiServer Administration, UCP, MDW, PowerShell
- Module 9. Managing Replication and High Availability 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

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- ❖ **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**