

## COURSE: SQL Server Development 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 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.

### Summary

<i>Duration:</i>	<i>5 days/ 40 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>750 Euro excl VAT – in class</i>

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

### AUDIENCE:

- New specialists in role of DBAs/Devs;
- Professionals working with other technology platforms
- DB Specialists coming from versions earlier than SQL Server 2008
- Developers who are willing to fill the gaps in their T-SQL knowledge and build a good understanding of SQL Server product

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

- To write an appropriate and correct T-SQL code;
  - To protect against Use of improper practices when writing code, and code that leads to performance problems
  - To read and create objects in the program, and can use the facilities suitable for
  - Know and use appropriate data types
  - Know indkesite and their structure and use
- For more info visit: [www.sqlmasteracademy.com](http://www.sqlmasteracademy.com)**

### TOPICS:

- Module 1. SQL Server and T-SQL Overview
- Module 2. The SELECT module
- Module 3. Joins and Subqueries
- Module 4. Introduction to Data Types, Tables and Constraints
- Module 5. Indexing Fundamentals
- Module 6. Foundations of Query Execution and Reading Query Plans
- Module 7. Dynamic SQL, specific constructs and their usage
- Module 8. T-SQL Programming Objects Fundamentals - Views, Stored Procedures, Triggers, Functions
- Module 9. Foundations of Data Modifications, Data Loading and Error Handling
- Module 10. Transactions and Lock Management
- Module 11. InMemory OLTP Concept

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**