



## MCSA: SQL 2016 Database Development

Code: 3212

6 days

### Course Overview

The [MCSA: SQL 2016 Database Development Certification](#) validates your skills in building and implementing databases across organizations, and will qualify you for a position as a database developer. The Boot Camp provides students hands-on experience with SQL Server 2016 and highlights what is new in SQL Server 2016 in comparison to SQL Server 2012/2014. It provides guidance on querying and designing objects for SQL Server 2016.

### Two Exam Vouchers are Included (Unlimited Retakes)

- Exam 70-761 Querying Data with Transact-SQL
- Exam 70-762 Developing SQL Databases

### This course incorporates content from Microsoft Official Courses (MOC):

- Developing SQL Databases (20762B)
- Querying Data with Transact-SQL (20761B)

Learn More about the [MCSA: SQL 2016 Database Development Certification](#)

### Who Needs To Attend

The primary audience for this course is individuals who have a Working knowledge of relational databases and a Basic knowledge of the Microsoft Windows operating system and its core functionality.

### Course Details

### Topics include

- Microsoft Certified Trainers
- Microsoft Official Course Material
  - Developing SQL Databases (20762B)
  - Querying Data with Transact-SQL (20761B)
- Exam Voucher(s) Included with Class
  - Exam 70-761 Querying Data with Transact-SQL
  - Exam 70-762 Developing SQL Databases

- Exam Pass Guarantee: Unlimited Retakes Until You Pass the Exam
- Work in virtual labs that provide real-world experience
- For Virtual Classes Learn at your own pace from your home, office, or any place that has an Internet connection
- Repeat part or all of the class at no additional cost, often for up to a year
- Work in virtual labs that provide real-world experience
- Certification of Completion at the End of Class
- Water, Soda, and Snacks Provided in Class
- Time intensive accelerated training for teams with budget and time
- Access to practice labs after the class

## Topics Include

### After completing this course, students will be able to:

- Describe the basic architecture and concepts of Microsoft SQL Server 2016.
- Understand the similarities and differences between Transact-SQL and other computer languages.
- Write SELECT queries
- Query multiple tables
- Sort and filter data
- Describe the use of data types in SQL Server
- Modify data using Transact-SQL
- Use built-in functions
- Group and aggregate data
- Use subqueries
- Use table expressions
- Use set operators
- Use window ranking, offset and aggregate functions
- Implement pivoting and grouping sets
- Execute stored procedures
- Program with T-SQL
- Implement error handling
- Implement transactions
- 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.