



## Course Features

- Instructor-led training online
- Custom Multimedia presentations
- Live instructor support
- Live virtual labs
- **Free Upgrades**
- **Money-back guarantee\***

### Live Instructor Support Package

- Participate in our live technical webinars featuring our in-house instructors.
- Speak off-line directly with our instructors.

### Live Classroom Training and Remote Virtual Boot Camps

- Customized training solutions for individuals and organizations. Call for information.

### Live Virtual Labs

- Login to a virtual machine and practice with real equipment
- Chat with instructors and other students around the world

## Also Available

### IT Certification Training Course Library Packages

BUOB's IT Training Course Library Subscriptions offer our entire range of training courses at substantial cost savings.

- CompTIA one-year library
- Microsoft one-year library
- Cisco one-year library
- Complete IT one-year library

# BUOB Computer Training™ Virtual Classroom for MCTS: Querying Microsoft SQL Server 2012

## Database Certification Training Course (Exam 70-461)

BUOB Computer Training's Querying Microsoft SQL Server 2012 course is intended for SQL Server database administrators, implementers, system engineers, and developers. This new BUOB Computer Training SQL 2012 course is focused on anyone interested in the validation of your skills and knowledge with writing queries.

Querying Microsoft SQL Server 2012 prepares students to pass exam 70-461 and provides the knowledge and understanding for some of these important job functions:

- Apply built-in scalar functions
- Apply ranking functions
- Combine datasets
- Creates and alters
- Design T-SQL stored procedures, views
- Implementing aggregate queries, error handling, sequence generation and data types
- Manage transactions
- Modify data by using INSERT, UPDATE, DELETE and MERGE statements
- Optimizing queries
- Query data using SELECT statements and Managing XML data
- OUTPUT clause to return data

As a Microsoft Certified Partner, BUOB Computer Training creates the highest quality course curriculum possible, ensuring you receive the training and knowledge needed to succeed. BUOB Computer Training is so certain this course

*\*If you fail the same exam covered by BUOB Computer Training's training on two (2) attempts within 180 days of purchase, a refund will be issued for the corresponding training package.*



# COURSE OUTLINE

## Module 1

- Introduction to SQL Server 2012
- SQL Instances
- Editions and Licensing
- SQL Server Objects
- System Databases
- SQL Server Data Tools
- Object Explorer
- Object Scripting
- Template Explorer
- Query Tabs
- Projects and Solutions
- Customizing SSDT
- Debugging T-SQL
- SQLCMD
- Exam Scenarios
- Module Review

## Module 2

- T-SQL Overview
- T-SQL Elements
- Batch Separators
- Line Terminator
- Variables
- Control Flow
- Expressions
- Functions
- Predicates and Operators
- SELECT
- Column Aliasing
- SELECT Execution
- Exam Scenarios
- Module Review

## Module 3

- SELECT Statements
- Basic SELECT Statement
- Specifying Columns
- Derived Columns
- Aliasing Columns
- Calculated Columns
- Ordering Results
- Returning Distinct Results
- Exam Scenarios
- Module Review

## Module 4

- Filtering
- WHERE Syntax
- BETWEEN
- WHERE Syntax IN
- Filtering NULL Values
- LIKE
- Data Type Comparison
- Filtering Data with WHERE
- TOP
- OFFSET-FETCH
- Exam Scenarios
- Module Review

## Module 5

- Join and Set Operators
- Using Joins
- Categories of Joins
- INNER JOIN
- OUTER JOIN
- JOIN Demo
- Set Operators
- Set Operators Demo
- Exam Scenarios
- Module Review

## Module 6

- Subqueries and Table Expressions
- Subqueries
- Self Contained Subquery
- Correlated Subquery
- Subquery Demo
- EXISTS
- Common Table Expressions
- Temporary Tables
- Table Variables
- Table Demo
- Exam Scenarios
- Module Review

## Module 7

- System Functions
- Scalar Functions
- ROWSET

- System Function Demo
- Aggregate Functions
- DISTINCT
- Aggregation Demo
- GROUP BY
- HAVING
- Conversion Functions
- Exam Scenarios
- Module Review

## Module 8

- T-SQL Programming
- Logical Functions
- IIF, CHOOSE and CASE
- Logical Function Demo
- Using Views
- Stored Procedures
- Functions
- Triggers
- Views Demo
- TRY CATCH
- Exam Scenarios
- Module Review

## Module 9

- Transactions
- Introduction to Transactions
- INSERT and UPDATE
- DELETE and TRUNCATE
- Transactions Demo
- Managing Transactions
- XACT\_ABORT
- Managing Transactions Demo
- Exam Scenarios
- Module Review

## Module 10

- Troubleshooting SQL Server
- Service Issues
- Connectivity Issues
- Locking Issues
- Troubleshooting Demo
- Exam Scenarios
- Module Review
- Program Review