



Sanisoft
information technologies

MCSA
SQL 2016
Database
Development

```
...mirror_mod = modifier_ob...  
...mirror_mod.mirror_object...  
...operation == "MIRROR_X":  
...mirror_mod.use_x = True  
...mirror_mod.use_y = False  
...mirror_mod.use_z = False  
...operation == "MIRROR_Y":  
...mirror_mod.use_x = False  
...mirror_mod.use_y = True  
...mirror_mod.use_z = False  
...operation == "MIRROR_Z":  
...mirror_mod.use_x = False  
...mirror_mod.use_y = False  
...mirror_mod.use_z = True  
...selection at the end -add...  
...ob.select= 1
```

OVERVIEW

This Course is intended for database professionals who build and implement databases across organizations and who ensure high levels of data availability. Their responsibilities include creating database files, data types, and tables; planning, creating, and optimizing indexes; writing queries, ensuring data integrity; implementing views, stored procedures, and functions; and managing transactions and locks.

```
... OPERATOR CLASSES :-----  
...types.Operator):  
... X mirror to the selected  
...object.mirror_mirror_x"  
...mirror X"  
...context):  
...context.active_object is not
```

Duration: 40 Hrs

Prerequisites:

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design.

Exam Code:

Code	Name	Duration
70-761	Querying Data with Transact-SQL	40 Hrs
70-762	Developing SQL Databases	40 Hrs

Course Outline Querying Data with Transact-SQL

- Module 1: Introduction to Microsoft SQL Server
- Module 2: Introduction to T-SQL Querying
- Module 3: Writing SELECT Queries
- Module 4: Querying Multiple Tables
- Module 5: Sorting and Filtering Data
- Module 6: Working with SQL Server Data Types
- Module 7: Using DML to Modify Data
- Module 8: Using Built-In Functions
- Module 9: Grouping and Aggregating Data
- Module 10: Using Subqueries
- Module 11: Using Table Expressions
- Module 12: Using Set Operators
- Module 13: Using Windows Ranking, Offset, and Aggregate Functions
- Module 14: Pivoting and Grouping Sets
- Module 15: Executing Stored Procedures
- Module 16: Programming with T-SQL
- Module 17: Implementing Error Handlin
- Module 18: Implementing Transactions



Course Outline Developing SQL Databases

- Module 1: Introduction to Database Development
- Module 2: Designing and Implementing Tables
- Module 3: Advanced Table Designs
- Module 4: Ensuring Data Integrity through Constraints
- Module 5: Introduction to Indexes
- Module 6: Designing Optimized Index Strategies
- Module 7: Columnstore Indexes
- Module 8: Designing and Implementing Views
- Module 9: Designing and Implementing Stored Procedures
- Module 10: Designing and Implementing User-Defined Functions
- Module 11: Responding to Data Manipulation via Triggers
- Module 12: Using In-Memory Tables
- Module 13: Implementing Managed Code in SQL Server
- Module 14: Storing and Querying XML Data in SQL Server
- Module 15: Storing and Querying Spatial Data in SQL Server
- Module 16: Storing and Querying BLOBs and Text Documents in SQL Server
- Module 17: SQL Server Concurrency
- Module 18: Performance and Monitoring

Targeted Audience

This Course Is Designed For:

The primary audience for this course is individuals who administer and maintain SQL Server.

These individuals perform database administration and maintenance as their primary area of responsibility, or work in environments where databases play a key role in their primary job.



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