

## New Horizons Microsoft SQL Server Developer learning package

Welcome to database development using one of the most powerful database management systems – Structured Query Language (SQL).

This learning package includes the following 4 tracks:

- Introduction to SQL
- 70-761: Querying Data with Transact-SQL
- 70-762: Developing SQL Databases
- Working with Microsoft Azure SQL

### Introduction to SQL

Many database management system (DBMS) tools run on a variety of hardware architecture. The differences among the tools can be great, but all serious products have one main thing in common: they provision SQL data access and manipulation. If you know SQL, you can build relational databases and get useful information from them. This series of courses will guide you through each step of the SQL architecture, how to create effective SQL databases, and how to effectively manage them. You will gain knowledge of database theory, concepts, and design so that you're equipped to create an effective database. Courses (10 hours +):

- Introduction to SQL
- Introduction to SQL: Managing Table Design
- Introduction to SQL: Multiple Tables and Advanced Queries
- Introduction to SQL: Views, Transactions, and SQL Security Architecture

### 70-761: Querying Data with Transact-SQL

This CertKit covers the best practices for implementing and querying data using SQL Server 2016 T-SQL. It's aimed at database administrators, database developers, and BI professionals, and covers querying data, working with data types, built-in functions, aggregating data, subqueries, and set operators.

This CertKit contains the following:

- E-learning courses (16 hours of learning):
  - T-SQL Querying
  - Querying and Manipulating Data
  - Filter and Modify Data in SQL Server 2016
  - Using Functions in SQL Server 2016
  - Aggregating Data in SQL Server 2016
  - Subqueries and Predicate
  - Operators and Expressions in SQL Server 2016
  - Database Programmability Objects and Non-Relational Data
- Skillssoft TestPrep Assessment

### 70-762: Developing SQL Databases

This CertKit will provide best practices for implementing database and programmability objects in SQL Server 2016. Upon completing, students will be able to configure, manage, and troubleshoot database objects.

This CertKit contains the following:

- E-learning courses (19+ hours of learning):
  - SQL Server 2016 Database Objects
  - SQL Server 2016 Indexes and Views
  - Columnstore Indexes
  - Programmability Objects
  - Triggers and Functions
  - Transactions and Isolation Levels
  - Managing Database Concurrency
  - Optimize SQL Database Objects and Infrastructure
  - Database Instances

- Performance Tuning
- Skillsoft TestPrep Assessment
- Practice Labs
  - This Practice Lab will provide you with the necessary platform to gain hands on skills Microsoft SQL Server 2016. By completing the lab tasks, you will improve your practical skills in designing and implementing database objects, implementing programmability objects, managing database concurrency and optimizing database objects and SQL infrastructure.

### **Working with Microsoft Azure SQL**

In this track, the focus will be on Microsoft Azure SQL. Learn how to set up and manage an Azure SQL database, perform basic CRUD operations, and work with complex data types such as stored procedures and functions. Explore advanced features such as transactions and security, and learn monitoring data changes, tracking query performance, and optimizing query executions.

Courses (5+ hours of learning)

- An Overview of Cloud Databases
- Working with Microsoft Azure SQL: Getting Started with Azure SQL
- Working with Microsoft Azure SQL: Using Transact-SQL for Queries & Transactions
- Working with Microsoft Azure SQL: Advanced Topics in Azure SQL Databases