

## New Horizons Microsoft SQL Server Administrator 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
- 70-764: Administering a SQL Database Infrastructure
- 70-765: Provisioning 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

### 70-764: Administering a SQL Database Infrastructure

SQL Server 2016 is a scalable database platform with advanced security and analytics, Business Intelligence, and hybrid cloud features. This CertKit covers the tasks and tools involved in administering a SQL Server 2016 database infrastructure.

This CertKit contains the following:

- E-learning courses (16 hours +):
  - Microsoft SQL Server 2016: Encryption
  - Microsoft SQL Server 2016: Data Access and Permissions
  - Microsoft SQL Server 2016: Auditing
  - Microsoft SQL Server 2016: Backing Up Databases
  - Microsoft SQL Server 2016: Restoring Databases
  - Microsoft SQL Server 2016: Managing Database Integrity
  - Microsoft SQL Server 2016: Monitoring Database Activity and Queries
  - Microsoft SQL Server 2016: Monitoring SQL Server Instances
  - Microsoft SQL Server 2016: Managing Indexes and Statistics
  - Microsoft SQL Server 2016: High Availability and Disaster Recovery
- Skillssoft TestPrep Assessment
- Practice Labs:
  - The 70-764 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 configuring access to data and auditing, managing backups and restoring a database, managing and monitoring SQL Server instances, managing high availability and disaster recovery.

## 70-765: Provisioning SQL Databases

This CertKit will provide best practices for implementing SQL in Azure, managing databases and instances, and deploying and migrating applications. You will learn how to provision a database server, upgrade and configure a SQL server, and manage databases.

This CertKit contains the following:

- E-learning courses (15+ hours of learning):
  - Components of a SQL Server 2016 Installation
  - Installing and Upgrading SQL Server 2016
  - SQL Server Virtual Machines on Azure
  - SQL Server Instances and Storage Considerations
  - Microsoft Azure SQL Database Security
  - Azure SQL Database Encryption
  - SQL Server Performance Settings
  - Deploying Applications to Microsoft Azure SQL Databases
  - Azure Virtual Machines
  - Migrating Client Applications
- Skillssoft TestPrep Assessment

## 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