AVEREST

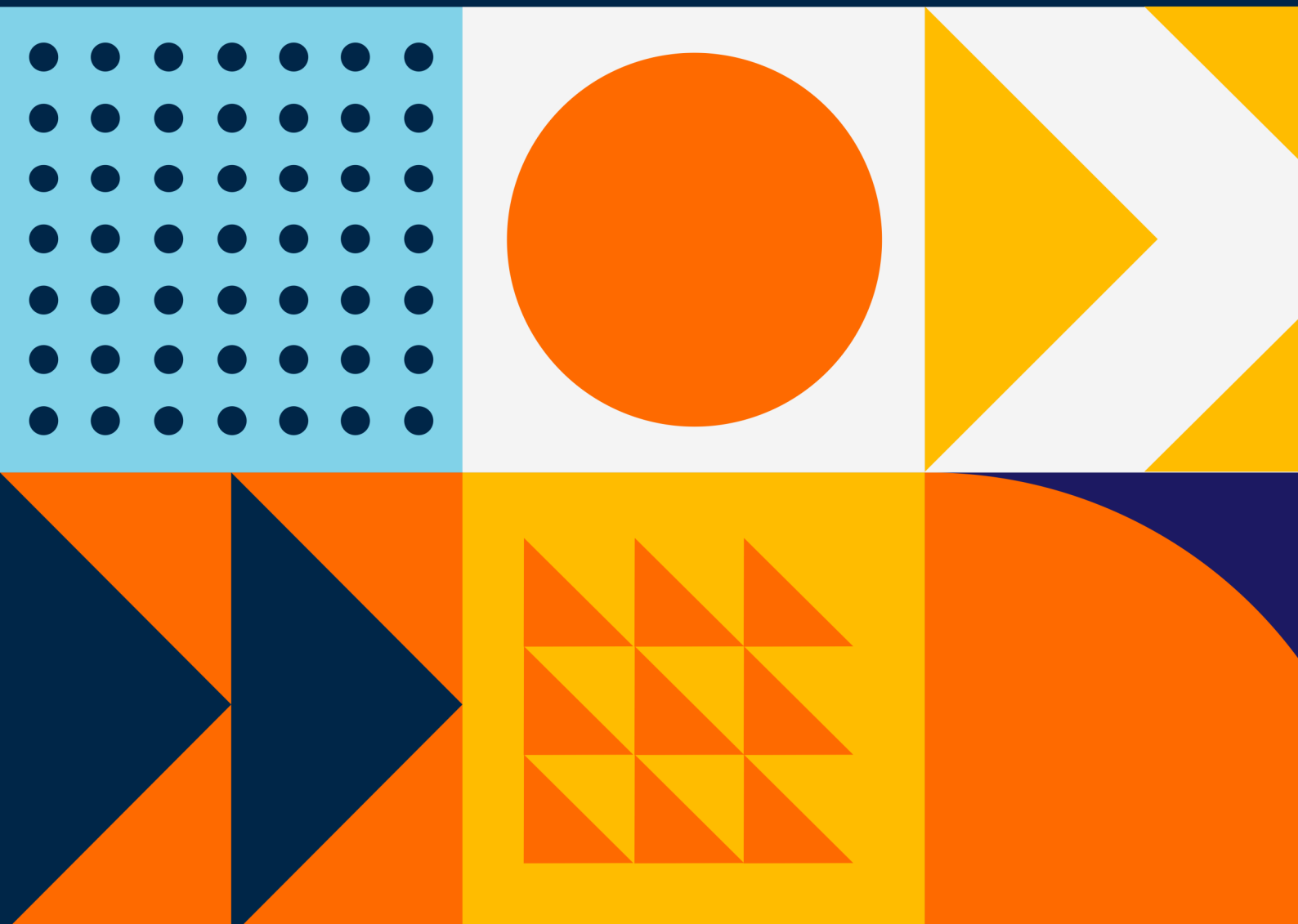# We do IT
to inspire.

Industry Certifications for IT & Management:

Updating Your Skills To SQL Server 2017 M10998

who we are.

Averest is one of the leading and fast-growing companies specialising in Information Technologies, Cyber Security, Cloud Computing, DevOps, Artificial Intelligence, Agile and Scrum, and Project Management, which is based in the United Kingdom and Turkey. Averest provides high-quality tech-accredited training and business solutions to its clients on these topics and more.

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Overview

SQL Server 2017 updated Microsoft's enterprise relational database platform with new features, including support for running on Linux and Docker containers, Python programming support (on top of R introduced in the previous version), graph data support, adaptive query processing, and helpful improvements to almost every area of the platform, including T-SQL, SSRS, and SSIS. SQL Server 2019 brought more updates, introducing Big Data Clusters for SQL Server and adding support for deployment of databases as Docker containers using Kubernetes. In addition added many new features to the database engine, Analysis Services, Machine Learning Services, and more.

What You Will Learn?

- Start from scratch by installing Microsoft SQL Server 2017 and create a practice environment for yourself.

- You will be familiarized with some of the core concepts of RDBMS / SQL Server.

- You will learn the ins and outs of SQL Server Management studio.

- You will learn how to create and connect SQL server cloud database using Amazon AWS and Microsoft Azure.

- You will learn how to create, alter and drop databases.

- You will learn how to create, alter and drop tables.

- You will learn how to insert, update and delete records from tables.

- You will start constructing your SELECT statement to retrieve data from SQL Server.

- You will know how to filter out unwanted data by using the WHERE clause as well as; you will know how to order your result set by using the ORDER BY clause.

Course Key Features

- With exam preparation guidance, course materials, pre & post course support

- Fully accredited as a Microsoft Learning Partner

- All-inclusive training delivered over two days by an expert trainer

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- You will also see how to use UNION / UNION ALL operators

- You will see how to group and summarize your data by using, the GROUP BY clause, HAVING clause and Aggregate functions.

- You will learn Joins in SQL Server. Inner Join, Left Outer Join, Right Outer Join, Full Outer Join, Cross Join and Self Join.

- You will also know about some string functions, date functions, and system functions.

- You will learn how to create your function.

- You will learn how to create, alter and drop Stored Procedures and the advantages of stored procedures.

- You will learn how to create, alter and drop Triggers and its advantage.

- You will learn how to create, alter and drop View and its advantage.

- You will learn about temp tables and its advantage.

- You will learn how to Handel exceptions in SQL Server.

- You will learn how to import data from excel files, flat files, another SQL server database and MySQL.

- You will learn how to export data to an excel file, flat file and another SQL server database.

- You will learn about Bulk Insert.

- You will learn about Cursors.

Eligibility

Job roles that can benefit from Microsoft SQL Server courses include: IT Administrators Architects Application

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Developers Software Developers BI Developers Directors Cloud Administrators Implementers Web Programmers Business Analysts

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Program Outline

Module 1: Introduction to SQL Server 2017

- Lessons:

- Overview of SQL Server 2017

- Functionality across versions

- After completing this module, you'll be able to:

- Describe the edition scale limits

- Explain the consistent functionality across versions

Module 2: What's new in SQL Server Performance, Scalability, and Availability

- This module introduces the performance enhancements provided by Adaptive Query Processing and Automatic Tuning, as well as the scalability and availability enhancements provided by new Availability Group architectures, including Read-Scale Availability Groups and Availability Groups with SQL Server on Linux

- Lessons:

- Adaptive query processing

- Automatic tuning

- Availability Scalability

- Lab: Performance and availability - adaptive query processing

- Interleaved execution

- Batch mode memory grants feedback

- Batch mode adaptive joins

- After completing this module, you'll be able to:

- Describe adaptive query processing

- Describe automatic plan correction

- Describe availability group architectures

- Describe always-on availability groups for Linux

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- Describe load-balancing of readable secondary replicas

- Describe petabyte-scale data warehousing

Module 3: What's New in SQL Server Data Access

- SQL Server 2017 introduces SQL Graph which enables you to define the relationships between your data items in a table rather than calculating them during a query, reducing the query cost and simplifying your data structure.

- Lessons:

- SQL Graph

- Lab: SQL Graph

- Create a Graph database

- Query a Graph database

- After completing this module, you'll be able to:

- Describe SQL Graph

Module 4: What's new in SQL Server Reporting and BI

- This module describes what's new in SQL Server reporting and BI.

- Lessons:

- Power BI report Server

- Reporting Services update

- Lab: Reporting and BI

- Deploy Power BI report server

- Add commenting to a report

- After completing this module, you'll be able to:

- Explain what Power BI report server is

- Use Power BI report server

- Create a Power BI report foe Power BI report server

Module 5: New and Enhanced Features in SQL Server Analysis Services

- This module introduces new and enhanced features in SQL Server Analysis Services, with particular emphasis on the tabular data model.

- Lessons:

Module 6: New and Enhanced data Analytics Features

- This module introduces new and enhanced data analytics features.

- Lessons:

- Tabular model updates

- Lab: Ragged hierarchies

- View existing reports

- Hide blank members

- After completing this module, you'll be able to:

- Describe the new features of tabular data models

- New and enhanced data analytics features

- Lab: Data analytics with Python

- Enable external script execution

- Run Python scripts

- After completing this module, you'll be able to:

- Describe the new and enhanced data analytics features.

Module 7: What's new in SQL Server in the Cloud

- Organisations want the best value from a mixture of cloud services and their existing investment in on-premises hardware and software. This module covers a comparison between the features of Microsoft Azure SQL Database and Microsoft SQL Server 2017, as well as new features that make it easier for you to migrate databases from on-premises SQL Server instances to Azure SQL Database.

- Lessons:

- Azure SQL database features

- Managed Instances

- Lab: Managed Instances

- After completing this module, you'll be able to:

- Explain the different features available in Azure SQL database and SQL Server 2017

- Describe Azure managed instances

Module 8: SQL Server on Linux

- This module covers the features of SQL Server on Linux, as well as the process for deploying SQL Server on Linux and using Docker.

- Lessons:

- SQL Server on Linux

- Deploying SQL Server on Linux

- Lab: SQL Server in Docker containers

- Deploy a SQL Server Docker image

- Run a SQL Server instance inside a Docker container

- Connect to a SQL Server Instance running in a Docker container

- After completing this module, you'll be able to:

- Describe the features of SQL Server on Linux

- Describe SQL Server on Linux deployment

- Deploy SQL server in a Docker container.

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Program Schedule

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