

## **Udemy Course: Introduction to Azure® SQL Database for Beginners**

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<https://www.udemy.com/course/introduction-to-azure-sql-database/>

### **Course Summary**

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In this course, you've learned how to work with Azure SQL Database (Platform as a Service) and SQL Server on Azure Virtual Machines (Infrastructure as a Service).

More analytically, you've learned the below in each section:

#### **Section 1 - Introduction**

In this section, we've talked about what we'll be covering throughout the course.

Moreover, we have talked about some of the main terms from the terminology used on the Azure cloud.

#### **Section 2 - Introducing the Azure Portal**

In this section, we've talked about and saw a relevant live demonstration, of the Azure Portal, via which you can manage all your Azure resources and services.

#### **Section 3- Creating your First Azure SQL Database**

In this section, you've learned how to create your first database on Azure SQL Database.

More analytically, we have created our Azure SQL Database and logical server, as well as, we saw the available options when it comes to configuring the firewall settings in order to be able to access SQL Database on Azure.

#### **Section 4 - Accessing Azure SQL Database**

In this section, you've learned about all the major available ways of accessing an Azure SQL Database.

To this end, you've learned how to access Azure SQL Database:

- From within Azure Portal, using Query Editor
- From SQL Server Management Studio on-premises
- From Azure Data Studio on-premises

## **Section 5 - Managing your Azure SQL Database Server**

In this section, you've learned all about managing your Azure SQL Database server.

To this end, you've learned about all the available Azure SQL Database Server management components and more analytically about the below component categories and the features they offer:

- Azure SQL Server Dashboard, Activity Logs and Access Control
- Azure SQL Server Settings
- Azure SQL Server Data Management
- Azure SQL Server Security
- Azure SQL Server Intelligent Performance
- Azure SQL Server Monitoring
- Azure SQL Server Automation
- Azure SQL Server Support & Troubleshooting

Moreover, you've learned how to easily create additional SQL users for an Azure SQL Database.

## **Section 6 - Managing your Azure SQL Database**

Managing an Azure SQL Database Server and an Azure SQL Database, might have some similarities in terms of some common features, but the majority of features are different. To this end, this section, was all about managing your Azure SQL Database.

In this section, you've learned about all the available Azure SQL Database management components and more analytically about the below component categories and the features they offer:

- Overview, Activity Log, Tags and Query Editor
- Power Platform
- Azure SQL Database Settings
- Azure SQL Database Data Management
- Integrations
- Azure SQL Database Security
- Azure SQL Database Intelligent Performance
- Azure SQL Database Monitoring
- Azure SQL Database Automation
- Support + Troubleshooting

## **Section 7 - Creating and Accessing an Azure SQL Server Virtual Machine**

In this section, you've learned how to create, manage and use an Azure SQL Server Virtual Machine.

More analytically, you've learned:

- How to Create an Azure SQL Server Virtual Machine from a Template
- Setting the Firewall Rules for Virtual Machine and SQL Server
- Accessing the Virtual Machine via RDP
- Accessing the Virtual Machine SQL Instance via SQL Server Management Studio
- Accessing the Virtual Machine SQL Instance via Azure Data Studio

## **Useful Links**

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- Microsoft Azure glossary: A dictionary of cloud terminology on the Azure platform
  - <https://docs.microsoft.com/en-us/azure/azure-glossary-cloud-terminology>
- Azure portal overview
  - <https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-overview>
- Azure portal
  - <https://portal.azure.com/>
- Quickstart: Create an Azure SQL Database single database
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-quickstart?tabs=azure-portal>
- Tutorial: Secure a database in Azure SQL Database
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/secure-database-tutorial>
- Azure SQL Database and Azure Synapse IP firewall rules
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/firewall-configure>
- Quickstart: Use the Azure portal's query editor (preview) to query an Azure SQL Database
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/connect-query-portal>
- Quickstart: Connect and query an Azure SQL Database or an Azure Managed Instance using SQL Server Management Studio (SSMS)
  - <https://docs.microsoft.com/en-us/sql/ssms/quickstarts/ssms-connect-query-azure-sql>

- Azure Data Studio
  - <https://docs.microsoft.com/en-us/sql/azure-data-studio>
- What is SQL Server Management Studio (SSMS)?
  - <https://docs.microsoft.com/en-us/sql/ssms/sql-server-management-studio-ssms>
- What is a logical SQL server in Azure SQL Database and Azure Synapse?
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/logical-servers>
- SQL Server on Azure
  - <https://azure.microsoft.com/en-us/services/sql-database/campaign/>
- Use auto-failover groups to enable transparent and coordinated failover of multiple databases
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview>
- What is Azure Security Center?
  - <https://docs.microsoft.com/en-us/azure/security-center/security-center-introduction>
- Automated backups - Azure SQL Database & SQL Managed Instance
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/automated-backups-overview?tabs=single-database>
- Azure SQL Database
  - <https://azure.microsoft.com/en-us/products/azure-sql/database/>
- An overview of Azure SQL Database and SQL Managed Instance security capabilities
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/security-overview>
- Use the Intelligent Insights performance diagnostics log of Azure SQL Database and Azure SQL Managed Instance performance issues
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/intelligent-insights-use-diagnostics-log>
- Creating and using active geo-replication - Azure SQL Database
  - <https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview>
- Azure Virtual Machines
  - <https://azure.microsoft.com/en-us/services/virtual-machines/>
- Connect to a SQL Server virtual machine on Azure
  - <https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/ways-to-connect-to-sql>

- Manage Azure VMs
  - <https://docs.microsoft.com/en-us/system-center/vmm/manage-azure-vm>