

# Loading and Processing Data Using Relational Databases

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# Overview

**Working with the Azure SQL Database managed service**

**Querying data using the Query Editor on the Azure portal**

**Working with data using SQL Server Management Studio (SSMS)**

**Loading data with Azure Data Factory pipelines**



# Azure SQL Database

Managed relational database service on the Microsoft Azure cloud platform ideal for transaction processing applications.



# Azure SQL Database

**Platform-as-a-Service (PaaS) offering**

**Shares codebase with Microsoft SQL Server database engine**

**Microsoft is now cloud-first: new features go to SQL Database first**

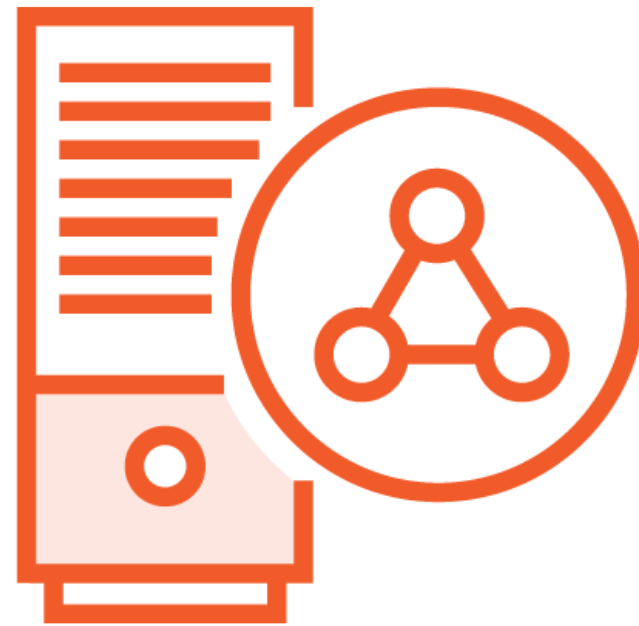
**Managed RDBMS with no overhead for patching or upgrading**



# Azure SQL Database Deployment Options



**Single Database**



**Elastic Pool**



**Managed Instance**

# SQL Server Management Studio

Microsoft's very popular integrated environment for all SQL services, including SQL Server, Azure SQL Database, and SQL Data Warehouse. Old favorite of DBAs.



# Azure Data Factory

Managed service meant for building complex, hybrid ETL pipelines that integrate data silos and can include Hadoop and Machine Learning transformations.



Demo

## **Creating an Azure SQL Database**





# Demo

**Connecting and loading data using SQL  
Server Management Studio (SSMS)**



# Demo

**Loading data into the Azure SQL Database using Azure Data Factory pipelines**



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