

Microsoft Azure Fundamentals  
Training Bootcamp

# Azure SQL Database Fundamentals 101

# Azure SQL Database Overview

- ❑ Azure SQL DB is a general-purpose relational database-as-a-service (DBaaS) based on the latest stable version of Microsoft SQL Server Database engine
- ❑ Provided as a managed service, you can create a highly available and high-performance data storage layer for the applications and solutions in Azure
- ❑ What's a relational database ?



Azure SQL DB

# Relational Database Example

F12								
	A	B	C	D	E	F	G	H
1	Courses			Students			Registration	
2	Course Name	Course ID		Student Name	Student ID		Registration ID Number	
3	Math	123		Mary	135		Course ID	
4	History	234		John	246		Student ID	
5	Physics	456		Gabriel	357			
6								

Course Table

Courses	
Course Name	Course ID
Math	123
History	234
Physics	456

Students Table

Students	
Student Name	Student ID
Mary	135
John	246
Gabriel	357

Registration Table

Registration	
Registration ID Number	
Course ID	
Student ID	

# Azure SQL Database Deployment Models

- ❑ Azure SQL DB provides three deployment models:

- ❑ Single

- ❑ Fully managed, isolated database

- ❑ Elastic Pool

- ❑ Collection of single databases with a shared set of resources

- ❑ Managed instance

- ❑ Fully managed instance of SQL Server

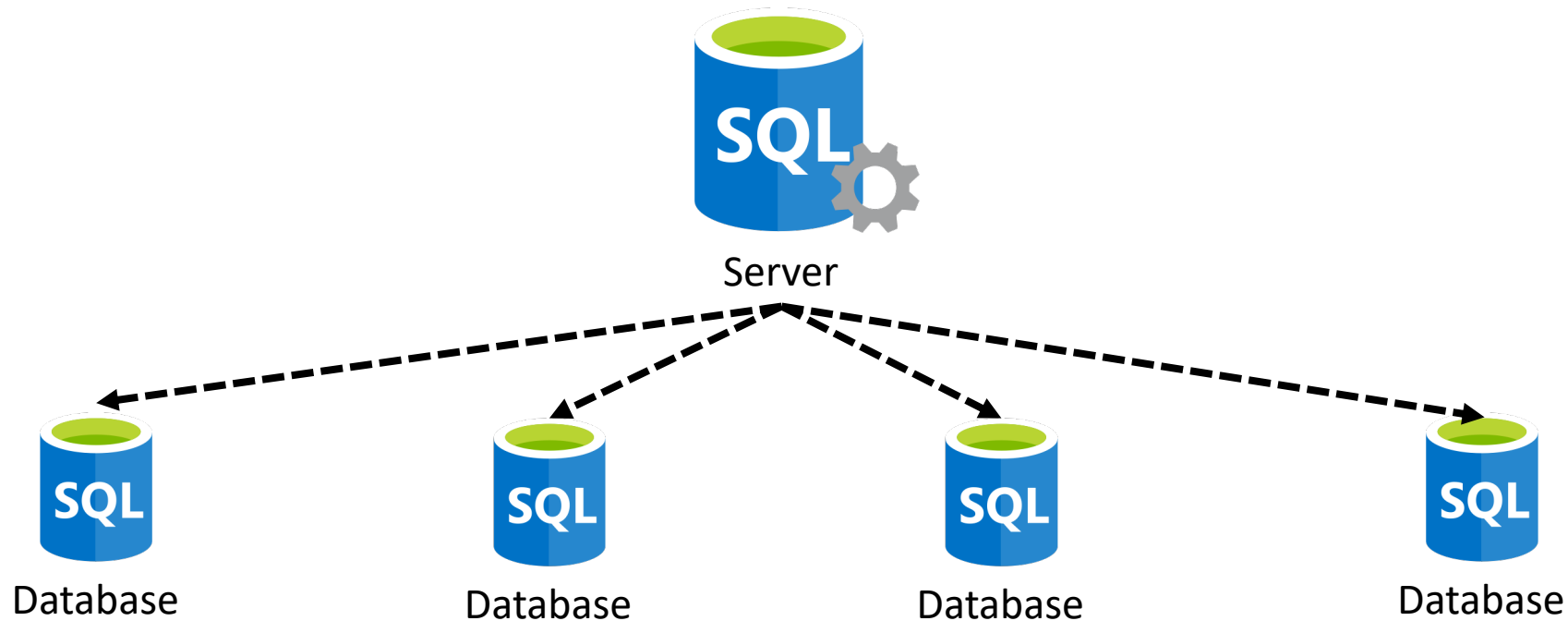
- ❑ Full SQL server capabilities (vs. Single)



Azure SQL DB

# SQL Database Server vs SQL Database

- ❑ Azure SQL Database Server is the central administrative point for multiple single or pooled databases
- ❑ Similar to on-prem traditional SQL server



# Azure SQL Database – Purchasing Options

- ☐ Azure SQL Database is available through three pricing models:
  - ☐ Database Transaction Unit (DTU)
  - ☐ Virtual Core (vCore) – recommended
  - ☐ Serverless model – vCore based
- ☐ With DTU, you scale storage with compute at the same time; with vCore you can scale storage independently from compute
- ☐ Any existing SQL license can be used with vCore model

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Thank you