Custom Learnings

Day 3

Azure SQL

Create Azure SQL in particular region: US East

Create Azure SQL -> SQL Databases, SQL managed instances, SQL virtual machines

SQL Databases: when starting from scratch

SQL managed instances manages more services from azure security,

SQL virtual machines: SQL in virtual machine

SQL Databases

- **Resource Type:**
  - **Single Database-** separate database for separate things.
  - **Elastic Pool –** single resource pool can be used for more services. instead of single combine both . create when one db has less and two db can be used to create pool
  - **Database server-** Database is created inside server

- **User & Group Access**
  - **User:** Individual access
  - **Group:** E.g., New group called IDAShell which has 100 members and give access to the entire group. Maybe only 50/200 tables were required by the IDA team so only that access is provided. If new user comes the person is added to that grp.

1. **Create SQL Database using Single Db resource:**

   Basics

Home > Azure SQL > Select SQL deployment option >

Create SQL Database ···
Microsoft   ✕

Basics   Networking   Security   Additional settings   Tags   Review + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to
provision with smart defaults, or visit each tab to customize. Learn more ⧉

> ℹ **Did you know** that new users in Azure can create a free Azure SQL Database and use it for 12 months using Azure free
> account? Learn more ⧉

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and
manage all your resources.

Subscription * ⓘ | npunext-1680261698581   ⌄ |

    Resource group * ⓘ | (New) RG_Shellida_06   ⌄ |
                           Create new

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage
resources

Cost summary

General Purpose (GP_S_Gen5_1)
Cost per **GB** (in --)   --
Max storage selected (in GB)   x 41.6

**ESTIMATED STORAGE COST / MONTH**   -- --
COMPUTE COST / VCORE SECOND ¹   -- --

NOTES
¹ Serverless databases are billed in vCore seconds based
on a combination of CPU and memory utilization. Learn
more about serverless billing

[Review + create]   [Next : Networking >]

Home > Azure SQL > Select SQL deployment option >

Create SQL Database ···
Microsoft   ✕

Basics   Networking   Security   Additional settings   Tags   **Review + create**

Product details

SQL database   **Estimated cost**
by Microsoft
Terms of use | Privacy policy   Storage cost -- -- / month + Compute cost -- -- / vCore second

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s)
listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with
the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and
transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities.
Microsoft does not provide rights for third-party offerings. For additional details see Azure Marketplace Terms. ⧉

Basics

Subscription   npunext-1680261698581
Resource group   RG_Shellida_06
Region   East US
Database name   idashelldb

Cost summary

General Purpose (GP_S_Gen5_1)
Cost per **GB** (in --)   --
Max storage selected (in GB)   x 41.6

ESTIMATED STORAGE COST / MONTH   -- --
COMPUTE COST / VCORE SECOND ¹   -- --

NOTES
¹ Serverless databases are billed in vCore seconds based
on a combination of CPU and memory utilization. Learn
more about serverless billing

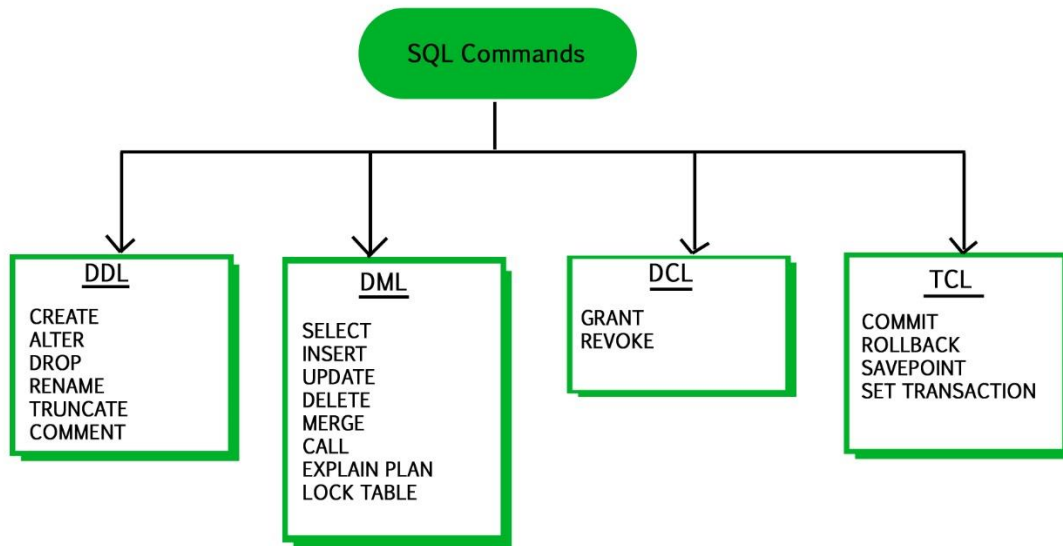[Create]   [< Previous]   Download a template for automation

TABLES

View : Limited access of table

CREATE VIEW *view_name* AS
SELECT *column1, column2, ...*
FROM *table_name*
WHERE *condition*;

➔ **DDL :** Data definition

➔ **DML:** Data Manipulation
➔ **DCL:** Data Control
➔ **TCL:** Transaction Control

Schema: Logical grouping of table objects

Default Schema: dbo

If we write select without creating schema, if dbo is there it will search for dbo and if not there it will throw error .

If there is any project schema , first find out that

E.g.,

Create schema ven1

Create table ven1.vendor

SYNTAX:

CREATE SCHEMA schemaname

   [AUTHORIZATION ownername]

GO

E.g.,

CREATE SCHEMA geeks_sch;

GO

SELECT *

FROM sys.schemas

Difference between Drop table, delete table and truncate table

- **Drop Table:** Entire record and structure will be delete

- **Delete Table:** Selects rows/records will be deleted

- **Truncate Table:** All the records will be deleted but structure will be there.

*Only difference between delete and truncate is that where clause can be put in delete that is selected records can be deleted.

HANDS-ON

Creating schema and then create table in it
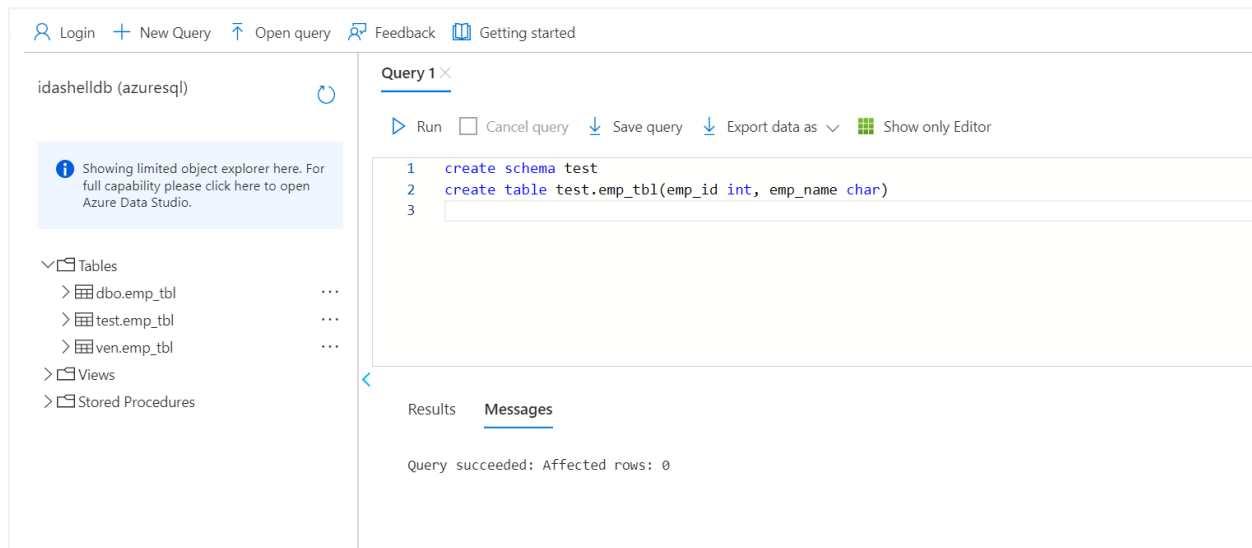
Real world

Server -> Databases -> Tables -> Schemas