

INNOVACIÓN VIRTUAL



Inteligencia Artificial

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Semana 2: *Recursos de Computo - Azure*

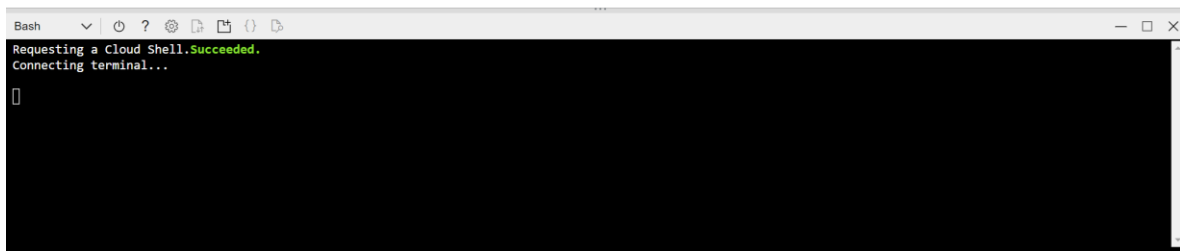
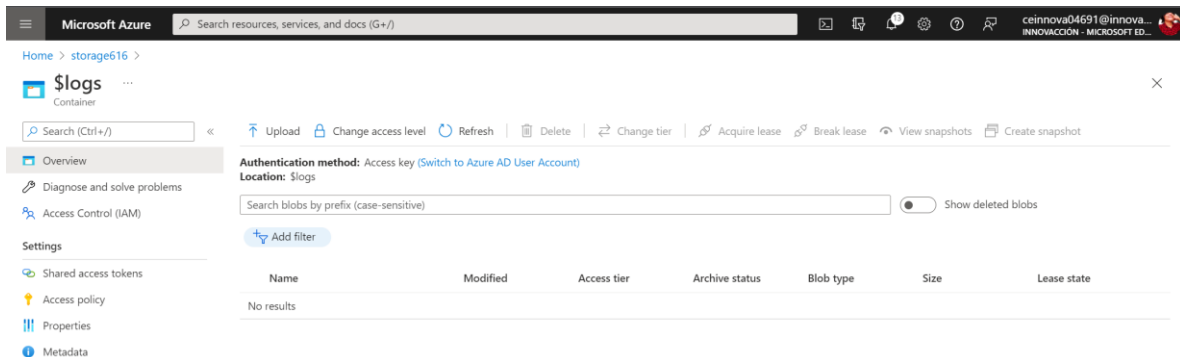
Grupo: *IA* **Tópico:** *Practica #10*

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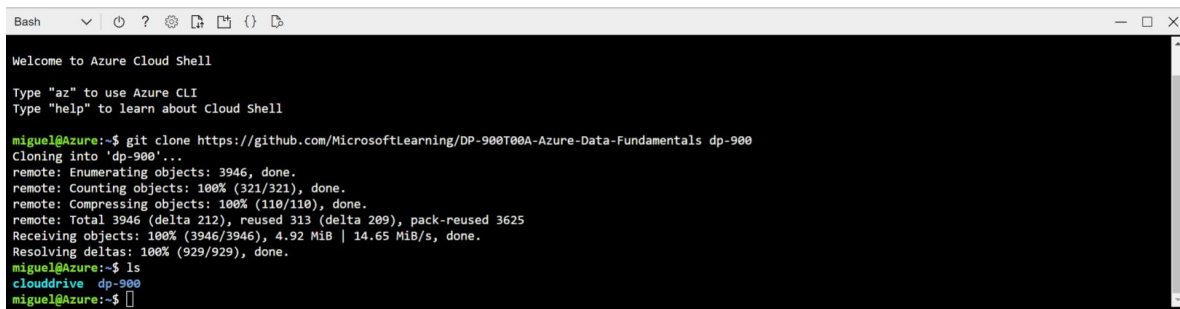
Consultas de SQL para Azure SQL Database

Para ello abrimos la terminal, copiamos y pegamos

git clone <https://github.com/MicrosoftLearning/DP-900T00A-Azure-Data-Fundamentals> dp-900



Podemos observar cómo se clona un repositorio dentro de Azure, le damos "ls" para verificar



Nos vamos a una carpeta, copiando y pegando

```
cd dp-900/sql
```

y después

```
bash setup.sh
```

```
Bash
miguél@Azure:~$ git clone https://github.com/MicrosoftLearning/DP-900T00A-Azure-Data-Fundamentals dp-900
Cloning into 'dp-900'...
remote: Enumerating objects: 3946, done.
remote: Counting objects: 100% (321/321), done.
remote: Compressing objects: 100% (110/110), done.
remote: Total 3946 (delta 212), reused 313 (delta 209), pack-reused 3625
Receiving objects: 100% (3946/3946), 4.92 MiB | 14.65 MiB/s, done.
Resolving deltas: 100% (929/929), done.
miguél@Azure:~$ ls
clouddrive dp-900
miguél@Azure:~$ cd dp-900/sql
miguél@Azure:~/dp-900/sql$
miguél@Azure:~/dp-900/sql$ bash setup.sh
Creating contoso-server-73f4ffddd6 in southcentralus...
None
Resource provider 'Microsoft.Sql' used by this operation is not registered. We are registering for you.
```

Y esperamos para que cargue, al finalizar, las buscamos dentro de nuestros Resource group

The screenshot shows the Azure portal interface for a resource group named 'Sesión2-Practica1'. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Deployments, Security, Policies, Properties, Locks, Cost Management, Cost analysis, and Cost alerts (preview). The main area shows the 'Resources' tab with a table of resources. The table has columns for Name, Type, and Location. The resources listed are:

Name	Type	Location
ASP-Sesin2Practica1-8cb7	App Service plan	South Central US
ASP-Sesin2Practica1-9b97	App Service plan	South Central US
contoso-server-73f4ffddd6	SQL server	South Central US
f665f2380dfa400ca09e8b66aa6cb6c2-dbserver	Azure Database for MySQL si...	South Central US

Seleccionamos el SQL y le damos en Query editor

The screenshot shows the 'Getting started' page for an Azure SQL database named 'Inventory (contoso-server-73f4ffddd6/Inventory)'. The left sidebar contains navigation links: Overview, Activity log, Tags, Diagnose and solve problems, Getting started (selected), Query editor (preview), Power Platform, Power BI, Power Apps, and Power Automate. The main content area is titled 'Start working with your database' and includes three cards: 'Configure access' (with a 'Configure' button), 'Connect to application' (with a 'See connection strings' button), and 'Start developing' (with an 'Open Azure Data Studio' button and a link to 'Open in Visual Studio').

Pero antes nos vamos a

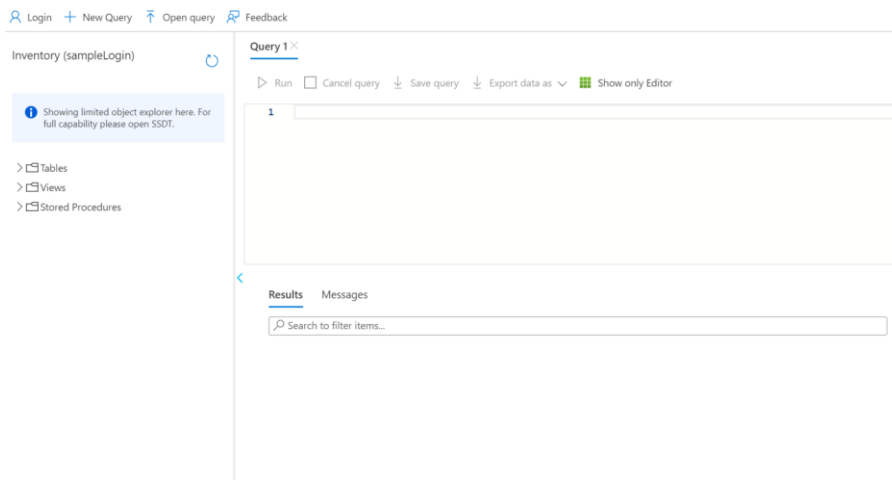
The screenshot shows the 'Overview' page for the 'Inventory' database. The left sidebar is the same as the previous screenshot. The main content area displays database details: Resource group (Sesión2-Practica1), Status (Online), Location (South Central US), Subscription (Azure for Students), and Subscription ID (5041c98e-1c9e-4b06-b1ec-65aa69e80f53). It also shows the Server name, Elastic pool (No elastic pool), Connection strings, Pricing tier (Basic), and Earliest restore point. Below this, there's a 'Compute utilization' section with a line chart showing usage over time (1 hour, 24 hours, 7 days) and an 'Aggregation type' dropdown set to 'Max'. On the right, a 'Database data storage' section shows a donut chart indicating 0.24% used space.

Y le damos a "Set server firewall" y le añadimos nuestra IP

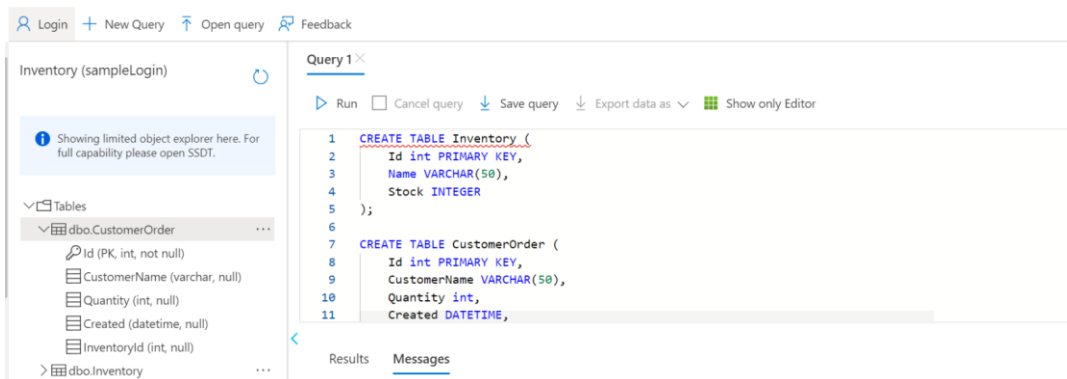
The screenshot shows the 'Networking' page for the 'Inventory' database. The left sidebar is the same as the previous screenshots. The main content area is titled 'Networking' and includes sections for 'Virtual networks' and 'Firewall rules'. The 'Virtual networks' section has a link to 'Add a virtual network rule'. The 'Firewall rules' section has a link to 'Add your client IPv4 address (189.234.47.149)' and a link to 'Add a firewall rule'. Below these, there's a table of firewall rules:

Rule name	Start IPv4 address	End IPv4 address	...
AllowYourIp	0.0.0.0	0.0.0.0	...
ClientIpAddress_2022-6-7_23-59-9	189.234.47.149	189.234.47.149	...

Y entramos en iniciar sesión para poder entrar a la DB



Insertamos el código SQL



El siguiente comando devuelve todos los valores de la tabla Inventory

1

SELECT *

2

FROM Inventory


Results






Messages

Search to filter items...


Id	Name	Stock
1	banana	150
2	orange	154
3	apple	23
4	lemon	254

Para mostrar solo el número de plátanos que hay en las existencias:


Query 1 

 Run ☐ Cancel query  Save query  Export data as   Show only Editor

```
1 SELECT *
2 FROM Inventory
3 WHERE Name = 'banana'
```



Results Messages

 Search to filter items...

Id	Name	Stock
1	banana	150

Para recuperar los artículos de inventario ordenados por la cantidad en las existencias:

Query 1 ×

▶ Run

☐ Cancel query

⬇ Save query

⬇ Export data as

▼

⌘ Show only Editor

1 SELECT *

2 FROM Inventory

3 ORDER BY Stock

<

Results

Messages

🔍 Search to filter items...

Id	Name	Stock
3	apple	23
1	banana	150
2	orange	154
4	lemon	254

Muestra los detalles de los pedidos realizados por los clientes junto con la información de inventario relativa a cada artículo solicitado:

Run
Cancel query
Save query
Export data as
Show only Editor

```

1 SELECT *
2 FROM Inventory
3 JOIN CustomerOrder ON Inventory.Id = CustomerOrder.InventoryId

```

Results Messages

Id	Name	Stock	Id	CustomerName	Quantity
2	orange	154	1	John Smith	5
2	orange	154	2	Jane Brown	8
3	apple	23	3	Stephen Stone	3
1	banana	150	4	Claire Smith	1
4	lemon	254	5	Sarah Fedun	3
3	apple	23	6	Graham Hinson	9

En la siguiente consulta se suman las cantidades para generar un total

```

1 SELECT SUM(CustomerOrder.Quantity)
2 FROM CustomerOrder

```

Results Messages

Search to filter items...

29