

+ bjetivos // del laboratorio

- Aprender a usar algunas operaciones de bases de datos comunes y la statement SELECT.
- Aprender cómo usar la statement SELECT y una cláusula WHERE para filtrar los registros con una búsqueda condicional.



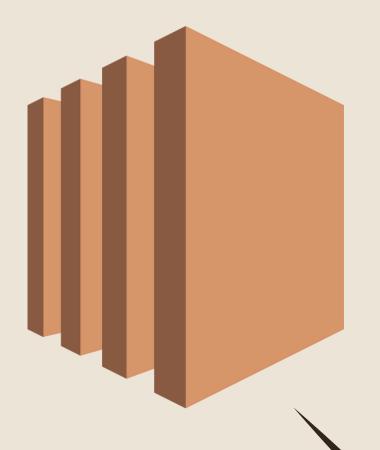




• Esperaremos a que la instancia esté cargada y nos conectaremos a la misma utilizando SSH.

- En Windows: usando PuTTY,
- En Linux: usando el comando SSH.

Amazon EC2



Conexión con la instancia EC2

Connect to instance Info

Connect to your instance i-0816bb3e913644cd6 (Command Host) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Session Manager usage:

- Connect to your instance without SSH keys, a bastion host, or opening any inbound ports.
- Sessions are secured using an AWS Key Management Service key.
- You can log session commands and details in an Amazon S3 bucket or CloudWatch Logs log group.
- Configure sessions on the Session Manager <u>Preferences</u> page.

Cancel

Connect

Conexión con la base de datos

```
sh-4.2$ sudo su
[root@ip-10-1-11-155 bin]# cd /home/ec2-user/
[root@ip-10-1-11-155 ec2-user]# mysql -u root --password='re:St@rt!9'
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 14
Server version: 10.6.18-MariaDB MariaDB Server
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]>
```

2: Consulte la base de datos world

• En esta tarea, consultará la base de datos world usando varias statement SELECT y funciones de la base de datos.

Tabla de ciudades

_	93023.00 00434.00	venezuera			rederal Kepublic			3339	٧Ľ	
VGB .	Virgin Islands, British		North America	Caribbe	an	151.00	NULL	21000		
5.4	612.00 573.00	British Virgin Islands	3		Dependent Territor	ry of the UK	·	537 1	VG	
VIR	Virgin Islands, U.S.		North America	Caribbe	ean	347.00	NULL	93000		
8.1	0.00 NULL	Virgin Islands of the	United States	1	US Territory			4067 1	VI	
VNM	Vietnam		Asia	Southea	st Asia	331689.00	1945	79832000		
9.3	21929.00 22834.00	.00 22834.00 Viët Nam Socialistic Republic						3770 1	VN	
VUT	Vanuatu		Oceania	Melanes	ia	12189.00	1980	190000		
0.6	261.00 246.00	Vanuatu			Republic			3537 1	VU	
WLF	Wallis and Futuna		Oceania	Polynes	sia	200.00	NULL	15000		
ULL	0.00 NULL	Wallis-et-Futuna			Nonmetropolitan Te	erritory of France		3536 1	WF	
WSM	Samoa		Oceania	Polynes	ia	2831.00	1962	180000		
9.2	141.00 157.00	Samoa		1	Parlementary Mona	rchy		3169 1	WS	
YEM	Yemen		Asia	Middle	East	527968.00	1918	18112000		
9.8	6041.00 5729.00	Al-Yaman		1	Republic			1780 1	ΥE	
YUG	Yugoslavia		Europe	Souther	n Europe	102173.00	1918	10640000		
2.4	17000.00 NULL	Jugoslavija		1	Federal Republic			1792 1	YU	
ZAF	South Africa		Africa	Souther	n Africa	1221037.00	1910	40377000		
1.1	116729.00 129092.00	South Africa		1	Republic			716 1	ZA	
ZMB	Zambia		Africa	Eastern	Africa	752618.00	1964	9169000		
7.2	3377.00 3922.00	Zambia			Republic			3162	ZM	
ZWE	Zimbabwe		Africa	Eastern	Africa	390757.00	1980	11669000		
7.8	5951.00 8670.00	Zimbabwe			Republic			4068	zw	

Conteo de tuplas

```
MariaDB [(none)] > SELECT COUNT(*) FROM world.country;
  COUNT(*)
       239
1 row in set (0.002 sec)
MariaDB [(none)]>
```

Desafio del lab

Uso del LIKE

```
MariaDB [(none)]> SELECT sum(Population) from world.country WHERE Region LIKE "%Europe%";
+-----+
| sum(Population) |
+-----+
| 634947800 |
+-----+
1 row in set (0.001 sec)

MariaDB [(none)]>
```

Uso del AS

```
MariaDB [(none)]> SELECT sum(population) as "Europe Population Total" from world.country WHERE region LIKE "%Europe%";

+------+
| Europe Population Total |
+-----+
| 634947800 |
+-----+
1 row in set (0.000 sec)

MariaDB [(none)]>
```

Uso del LOWER

MariaDB [(none)]> SELECT Name, Capital, I		rtaceArea, Population from w			ion) LIKE "%central%";
Name	Capital		SurfaceArea	Population	
Atghanistan	1	Southern and Central Asia	652090.00		
Angola	56	Central Atrica	1246700.00	12878000	
Bangladesh	150	Southern and Central Asia	143998.00	129155000	
Belize	185	Central America	22696.00	241000	
Bhutan	192	Southern and Central Asia	47000.00	2124000	
Central African Republic	1889	Central Atrica	622984.00	3615000	
Cameroon	1804	Central Africa	475442.00	15085000	
Congo, The Democratic Republic of the	2298	Central Africa	2344858.00	51654000	
Congo	2296	Central Atrica	342000.00	2943000	
Costa Rica	584	Central America	51100.00	4023000	
Gabon	902	Central Africa	267668.00	1226000	
Equatorial Guinea	2972	Central Africa	28051.00	453000	
Guatemala	922	Central America	108889.00	11385000	
Honduras	933	Central America	112088.00	6485000	
India	1109	Southern and Central Asia	3287263.00	1013662000	

Desafio 2

Conclusiones

- Se realizaron con éxito los desafios
- Adquirí experiencia en el uso de operaciones básicas de SQL

iMuchas gracias!

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Realizado en: canva.com

