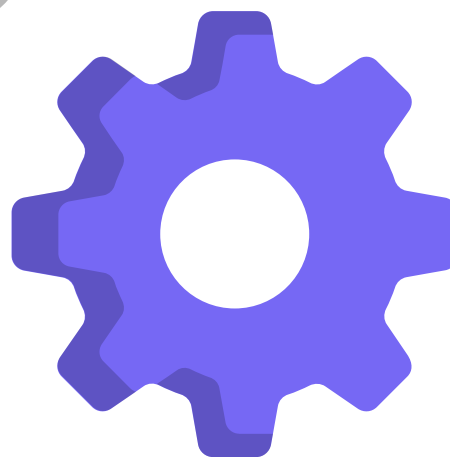
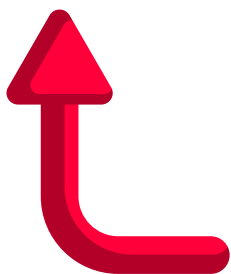
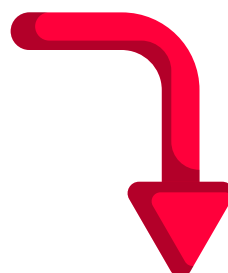




29°

Lab - AWS re/Start

Operaciones de tabla de base de datos



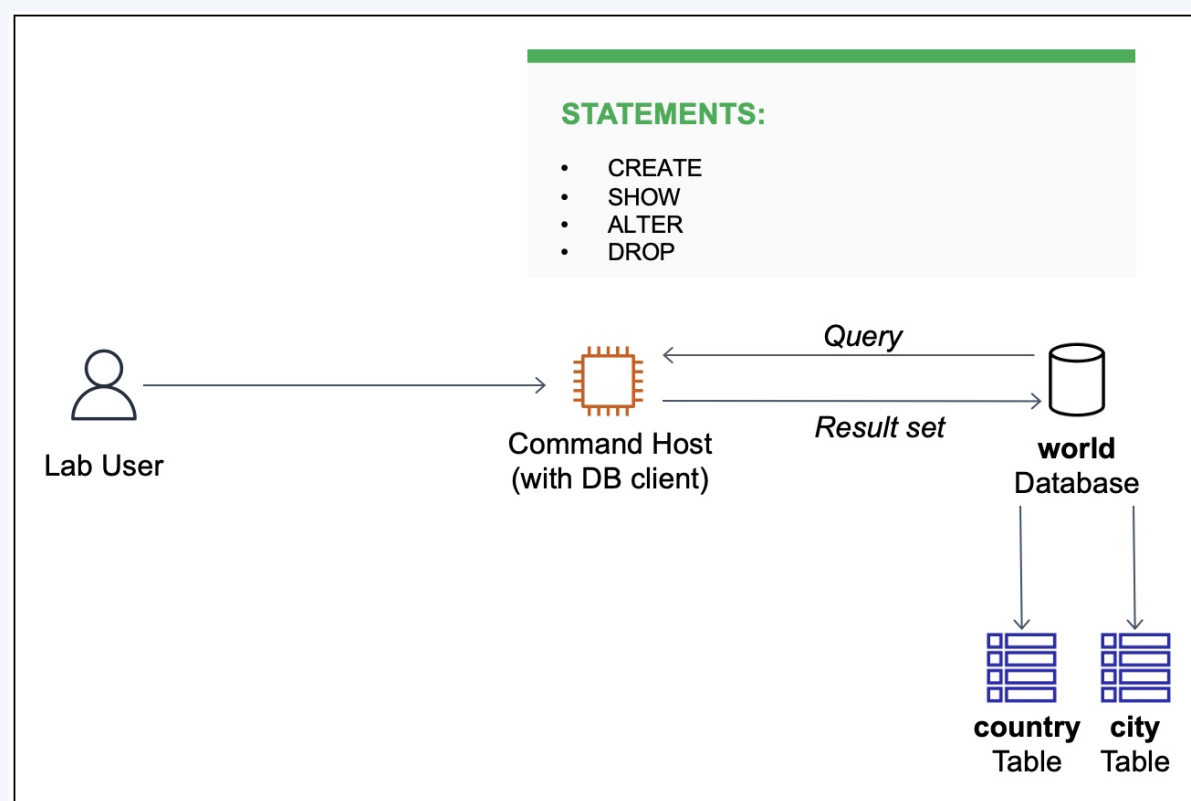
Tarea 01



Creando y eliminando Bases de datos y tablas

A continuación, se muestra los objetivos del laboratorio:

- Usar la sentencia **CREATE** para crear bases de datos y tablas
- Usar la sentencia **SHOW** para ver las bases de datos y tablas disponibles
- Usar la sentencia **ALTER** para alterar la estructura de una tabla
- Usar la sentencia **DROP** para eliminar bases de datos y tablas



Tarea 01



Empezamos conectándonos a la instancia EC2 llamada *Command Host*, configurada con la base de datos usando *Session Manager*.

```
us-west-2.console.aws.amazon.com/systems-manager/session-manager/i-01f3b9478cff86dc3?region=us-west-2
Session ID: 783c9c4b-e126-4728-9951-0a7c5c23e5f5-063358c9df5760a96 Instance ID: i-01f3b9478cff86dc3 Terminate

sh-4.2$ sudo su
[root@ip-10-1-11-239 bin]# cd /home/ec2-user/
[root@ip-10-1-11-239 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 13
Server version: 10.6.17-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.
```

Ahora procedemos a crear una base de datos llamada *world* y dentro de esta, crearemos una tabla *country*. Lo primero que hacemos es ver las bases de datos existentes. Luego procedemos a crear y verificar que la base de datos *world* se haya creado.

```
MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.003 sec)

MariaDB [(none)]> CREATE DATABASE world;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| world |
+-----+
5 rows in set (0.000 sec)
```

Tarea 01



Ahora creamos la tabla *country*, con sus respectivos campos:

```
MariaDB [(none)]> CREATE TABLE world.country (
-> `Code` CHAR(3) NOT NULL DEFAULT '',
-> `Name` CHAR(52) NOT NULL DEFAULT '',
-> `Conitinent` enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') NOT NULL DEFAULT 'Asia',
-> `Region` CHAR(26) NOT NULL DEFAULT '',
-> `SurfaceArea` FLOAT(10,2) NOT NULL DEFAULT '0.00',
-> `IndepYear` SMALLINT(6) DEFAULT NULL,
-> `Population` INT(11) NOT NULL DEFAULT '0',
-> `LifeExpectancy` FLOAT(3,1) DEFAULT NULL,
-> `GNP` FLOAT(10,2) DEFAULT NULL,
-> `GNPold` FLOAT(10,2) DEFAULT NULL,
-> `LocalName` CHAR(45) NOT NULL DEFAULT '',
-> `GovernmentForm` CHAR(45) NOT NULL DEFAULT '',
-> `HeadOfState` CHAR(60) DEFAULT NULL,
-> `Capital` INT(11) DEFAULT NULL,
-> `Code2` CHAR(2) NOT NULL DEFAULT '',
-> PRIMARY KEY (`Code`)
-> );
Query OK, 0 rows affected (0.006 sec)

MariaDB [(none)]> USE world;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [world]> SHOW TABLES;
+-----+
| Tables in world |
+-----+
| country         |
+-----+
1 row in set (0.000 sec)
```

Podemos ver las columnas de esta tabla:

```
MariaDB [world]> SHOW COLUMNS FROM world.country;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Code  | char(3) | NO | PRI |          |       |
| Name  | char(52) | NO |     |          |       |
| Conitinent | enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') | NO |     | Asia |       |
| Region | char(26) | NO |     |          |       |
| SurfaceArea | float(10,2) | NO |     | 0.00 |       |
| IndepYear | smallint(6) | YES |     | NULL |       |
| Population | int(11) | NO |     | 0 |       |
| LifeExpectancy | float(3,1) | YES |     | NULL |       |
| GNP    | float(10,2) | YES |     | NULL |       |
| GNPold | float(10,2) | YES |     | NULL |       |
| LocalName | char(45) | NO |     |          |       |
| GovernmentForm | char(45) | NO |     |          |       |
| HeadOfState | char(60) | YES |     | NULL |       |
| Capital | int(11) | YES |     | NULL |       |
| Code2  | char(2) | NO |     |          |       |
+-----+-----+-----+-----+-----+
15 rows in set (0.001 sec)
```

Asimismo, podemos editar los campos, usando *ALTER*

```
MariaDB [world]> ALTER TABLE world.country RENAME COLUMN Conitinent TO Continent;
Query OK, 0 rows affected (0.009 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [world]> SHOW COLUMNS FROM world.country;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Code  | char(3) | NO | PRI |          |       |
| Name  | char(52) | NO |     |          |       |
| Continent | enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') | NO |     | Asia |       |
| Region | char(26) | NO |     |          |       |
| SurfaceArea | float(10,2) | NO |     | 0.00 |       |
| IndepYear | smallint(6) | YES |     | NULL |       |
| Population | int(11) | NO |     | 0 |       |
| LifeExpectancy | float(3,1) | YES |     | NULL |       |
| GNP    | float(10,2) | YES |     | NULL |       |
| GNPold | float(10,2) | YES |     | NULL |       |
| LocalName | char(45) | NO |     |          |       |
| GovernmentForm | char(45) | NO |     |          |       |
| HeadOfState | char(60) | YES |     | NULL |       |
| Capital | int(11) | YES |     | NULL |       |
| Code2  | char(2) | NO |     |          |       |
+-----+-----+-----+-----+-----+
```

Tarea 01



Como reto crearemos una tabla *city* con los siguientes campos:

```
MariaDB [world]> CREATE TABLE world.city (Name VARCHAR(255), Region VARCHAR(255));
Query OK, 0 rows affected (0.006 sec)

MariaDB [world]> SHOW TABLES;
+-----+
| Tables_in_world |
+-----+
| city             |
| country          |
+-----+
2 rows in set (0.000 sec)

MariaDB [world]> SHOW COLUMNS FROM world.city;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Name  | varchar(255) | YES  |     | NULL    |       |
| Region | varchar(255) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

Finalmente, eliminaremos la base de datos y sus tablas:

```
MariaDB [world]> DROP TABLE world.city, world.country;
Query OK, 0 rows affected (0.008 sec)

MariaDB [world]> SHOW TABLES;
Empty set (0.000 sec)

MariaDB [world]> DROP DATABASE world;
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql       |
| performance_schema |
| sys        |
+-----+
4 rows in set (0.000 sec)
```