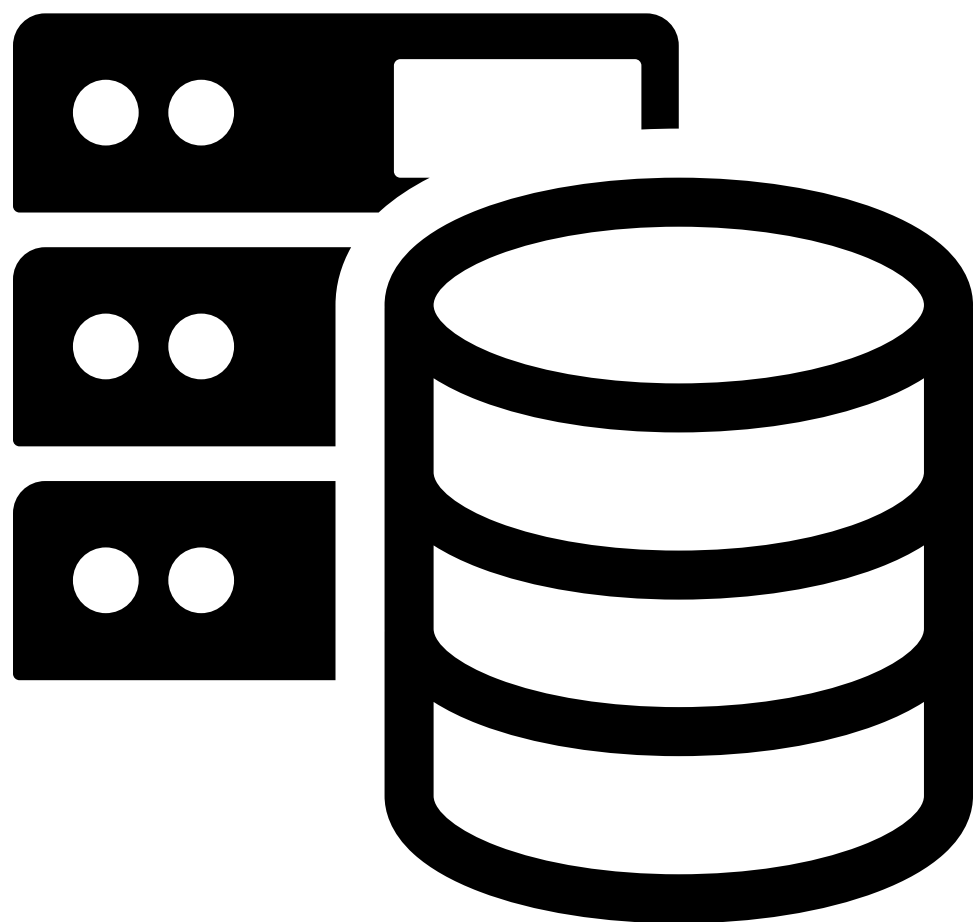




# 30°

**Lab - AWS re/Start**

**Insertar, actualizar y  
eliminar datos en una db**



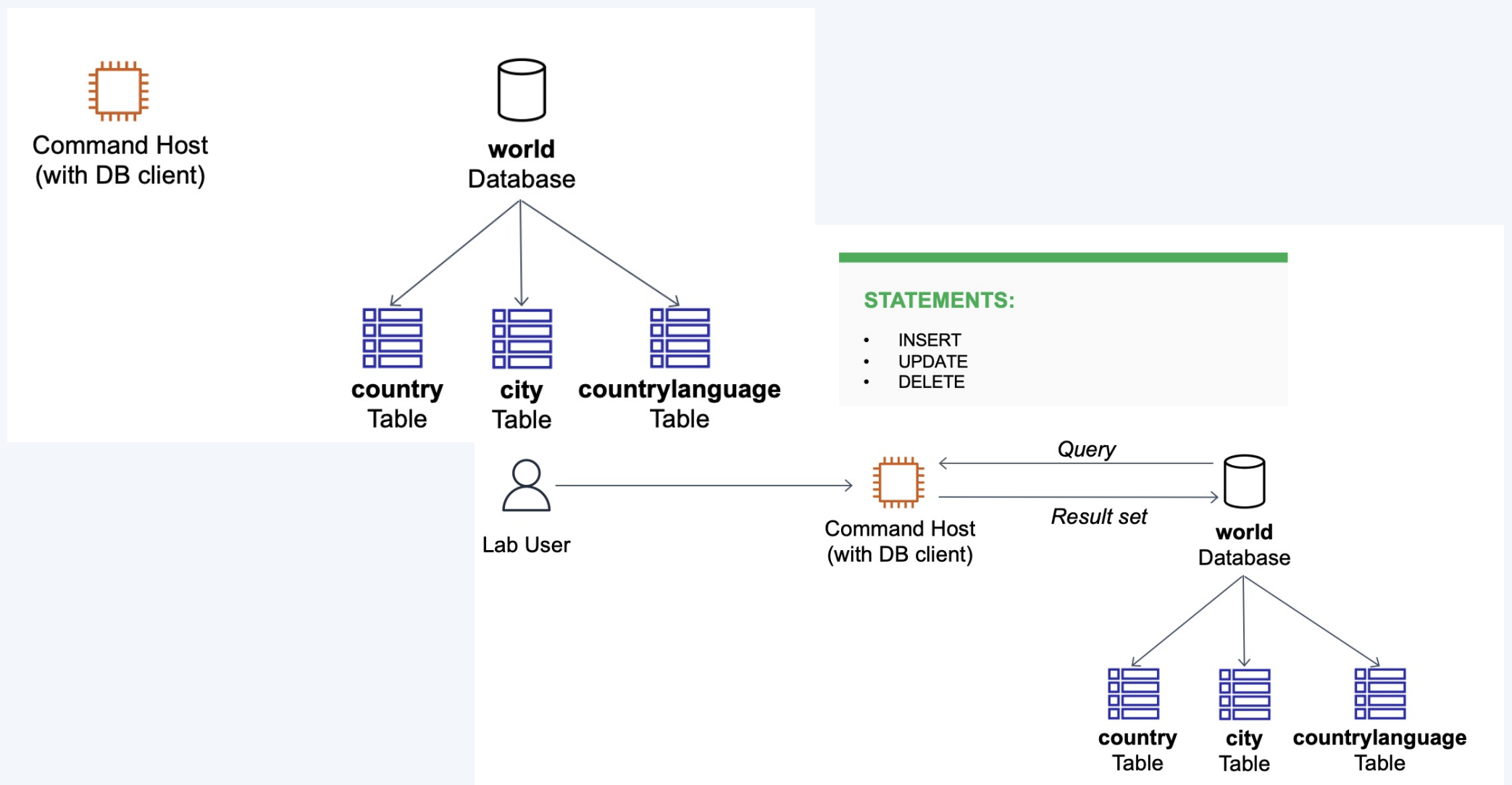
## Tarea 01



# Explorando sentencias INSERT UPDATE DELETE

A continuación, se muestra los objetivos del laboratorio:

- **Insertar** filas en una tabla
- **Actualizar** filas de una tabla
- **Eliminar** filas de una tabla
- **Importar** filas de un archivo de respaldo de base de datos



# Tarea 01



Después de conectarnos a la instancia EC2 con la base de datos. Verificamos que no hay data ingresada aún, luego procederemos a insertar nuevos *records*.

```
us-west-2.console.aws.amazon.com/systems-manager/session-manager/i-028579b95e11d965a?region=us-west-2
Session ID: 783c9c4b-e126-4728-9951-0a7c5c23e5f5-03b11e3d6f14550f2 Instance ID: i-028579b95e11d965a Terminate

sh-4.2$ sudo su
[root@ip-10-1-11-185 bin]# cd /home/ec2-user/
[root@ip-10-1-11-185 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: 10.6.17-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.

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| world |
+-----+
5 rows in set (0.005 sec)

MariaDB [(none)]> SELECT * FROM world.country;
Empty set (0.001 sec)

MariaDB [(none)]> INSERT INTO world.country VALUES ('IRL','Ireland','Europe','British Islands',70273.00,1921,3775100,76.8,75921.00,73132.00,'Ireland/Éire','Republic',1447,'IE');
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]>
MariaDB [(none)]> INSERT INTO world.country VALUES ('AUS','Australia','Oceania','Australia and New Zealand',7741220.00,1901,18886000,79.8,351182.00,392911.00,'Australia','Constitutional Monarchy, Federation',135,'AU');
Query OK, 1 row affected (0.001 sec)
```

Y luego procedemos a verificar que se hayan insertado los datos en la tabla *country*

```
MariaDB [(none)]> SELECT * FROM world.country;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Code | Name | Continent | Region | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP | GNPOld | LocalName | GovernmentForm | Capital | Code2 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| AUS | Australia | Oceania | Australia and New Zealand | 7741220.00 | 1901 | 18886000 | 79.8 | 351182.00 | 392911.00 | Australia | Constitutional Monarchy, Federation | 135 | AU |
| IRL | Ireland | Europe | British Islands | 70273.00 | 1921 | 3775100 | 76.8 | 75921.00 | 73132.00 | Ireland/Éire | Republic | 1447 | IE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

Ahora actualizaremos los valores de una columna:

```
MariaDB [(none)]> UPDATE world.country SET Population = 0;
Query OK, 2 rows affected (0.001 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [(none)]> SELECT * FROM world.country;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Code | Name | Continent | Region | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP | GNPOld | LocalName | GovernmentForm | Capital | Code2 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| AUS | Australia | Oceania | Australia and New Zealand | 7741220.00 | 1901 | 0 | 79.8 | 351182.00 | 392911.00 | Australia | Constitutional Monarchy, Federation | 135 | AU |
| IRL | Ireland | Europe | British Islands | 70273.00 | 1921 | 0 | 76.8 | 75921.00 | 73132.00 | Ireland/Éire | Republic | 1447 | IE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

# Tarea 01



También es posible actualizar los valores de más de una columna, en este caso *Population* y *SurfaceArea*:

```
MariaDB [(none)]> UPDATE world.country SET Population = 100, SurfaceArea = 100;
Query OK, 2 rows affected (0.001 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [(none)]> SELECT * FROM world.country;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Code | Name      | Continent | Region              | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP      | GNPold   | LocalName | GovernmentForm | Capital | Code2 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| AUS  | Australia | Oceania   | Australia and New Zealand | 100.00      | 1901      | 100        | 79.8           | 351182.00 | 392911.00 | Australia | Constitutional Monarchy, Federation | 135    | AU   |
| IRL  | Ireland  | Europe    | British Islands      | 100.00      | 1921      | 100        | 76.8           | 75921.00  | 73132.00  | Ireland/Éire | Republic      | 1447   | IE   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

Finalmente para eliminar todos los registros de la tabla:

```
MariaDB [(none)]> DELETE FROM world.country;
Query OK, 2 rows affected (0.001 sec)

MariaDB [(none)]> SELECT * FROM world.country;
Empty set (0.000 sec)
```

Ahora, procederemos a insertar data utilizando un script de SQL, en este caso *world.sql*:

```
MariaDB [(none)]> QUIT;
Bye
[root@ip-10-1-11-185 ec2-user]# ls /home/ec2-user/world.sql
/home/ec2-user/world.sql
[root@ip-10-1-11-185 ec2-user]# cat /home/ec2-user/world.sql
-- MariaDB dump 10.19  Distrib 10.6.5-MariaDB, for Linux (x86_64)
--
-- Host: localhost      Database: world
--
-- Server version      10.6.5-MariaDB
--
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

DROP DATABASE IF EXISTS `world`;
CREATE DATABASE `world` DEFAULT CHARACTER SET utf8mb4;

USE `world`;

--
-- Table structure for table `city`
--
DROP TABLE IF EXISTS `city`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `city` (
  `ID` int(11) NOT NULL AUTO_INCREMENT,
  `Name` char(35) NOT NULL DEFAULT '',
  `CountryCode` char(3) NOT NULL DEFAULT '',
  `District` char(20) NOT NULL DEFAULT '',
  `Population` int(11) NOT NULL DEFAULT 0,
  PRIMARY KEY (`ID`),
  KEY `CountryCode` (`CountryCode`),
  CONSTRAINT `city_ibfk_1` FOREIGN KEY (`CountryCode`) REFERENCES `country` (`Code`)
) ENGINE=InnoDB AUTO_INCREMENT=4080 DEFAULT CHARSET=utf8mb4;
/*!40101 SET character_set_client = @saved_cs_client */;
```

# Tarea 01



Entonces, procedemos a insertar la data utilizando este script de SQL

```
[root@ip-10-1-11-185 ec2-user]# mysql -u root --password='re:St@rt!9' < /home/ec2-user/world.sql
[root@ip-10-1-11-185 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 16
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.

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 |
+-----+
| city              |
| country           |
| countrylanguage   |
+-----+
3 rows in set (0.000 sec)

MariaDB [world]>
MariaDB [world]> SELECT * FROM country;
```

Code	Name	GovernmentForm	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy	GNP	GNPold	LocalName
ABW	Aruba	Nonmetropolitan Territory of The Netherlands	North America	Caribbean	193.00	NULL	103000	78.4	828.00	793.00	Aruba
AFG	Afghanistan	Islamic Emirate	Asia	Southern and Central Asia	652090.00	1919	22720000	45.9	5976.00	NULL	Afganistan/Afghanistan
AGO	Angola	Republic	Africa	Central Africa	1246700.00	1975	12878000	38.3	6648.00	7984.00	Angola
AIA	Anguilla	Dependent Territory of the UK	North America	Caribbean	96.00	NULL	8000	76.1	63.20	NULL	Anguilla
ALB	Albania	Republic	Europe	Southern Europe	28748.00	1912	3401200	71.6	3205.00	2500.00	Shqipëria
AND	Andorra	Parliamentary Coprincipality	Europe	Southern Europe	468.00	1278	78000	83.5	1630.00	NULL	Andorra

```
MariaDB [world]> SELECT * FROM city;
```

ID	Name	CountryCode	District	Population
1	Kabul	AFG	Kabul	1780000
2	Qandahar	AFG	Qandahar	237500
3	Herat	AFG	Herat	186800
4	Mazar-e-Sharif	AFG	Balkh	127800
5	Amsterdam	NLD	Noord-Holland	731200
6	Rotterdam	NLD	Zuid-Holland	593321
7	Haag	NLD	Zuid-Holland	440900
8	Utrecht	NLD	Utrecht	234323
9	Eindhoven	NLD	Noord-Brabant	201843
10	Tilburg	NLD	Noord-Brabant	193238
11	Groningen	NLD	Groningen	172701
12	Breda	NLD	Noord-Brabant	160398
13	Apeldoorn	NLD	Gelderland	153491
14	Nijmegen	NLD	Gelderland	152463
15	Enschede	NLD	Overijssel	149544
16	Haarlem	NLD	Noord-Holland	148772
17	Almere	NLD	Flevoland	142465
18	Arnhem	NLD	Gelderland	138020
19	Zaanstad	NLD	Noord-Holland	135621
20	's-Hertogenbosch	NLD	Noord-Brabant	129170
21	Amersfoort	NLD	Utrecht	126270
22	Maastricht	NLD	Limburg	122087
23	Dordrecht	NLD	Zuid-Holland	119811
24	Leiden	NLD	Zuid-Holland	117196

```
MariaDB [world]> SELECT * FROM countrylanguage;
```

CountryCode	Language	IsOfficial	Percentage
ABW	Dutch	T	5.3
ABW	English	F	9.5
ABW	Papiamentu	F	76.7
ABW	Spanish	F	7.4
AFG	Balochi	F	0.9
AFG	Dari	T	32.1
AFG	Pashto	T	52.4
AFG	Turkmenian	F	1.9
AFG	Uzbek	F	8.8
AGO	Ambo	F	2.4
AGO	Chokwe	F	4.2
AGO	Kongo	F	13.2
AGO	Luchazi	F	2.4
AGO	Luimbe-nganguela	F	5.4
AGO	Luvale	F	3.6
AGO	Mbundu	F	21.6
AGO	Nyaneka-nkhumbi	F	5.4
AGO	Ovimbundu	F	37.2
AIA	English	T	0.0
ALB	Albaniana	T	97.9
ALB	Greek	F	1.8
ALB	Macedonian	F	0.1
AND	Catalan	T	32.3
AND	French	F	6.2
AND	Portuguese	F	10.8
AND	Spanish	F	44.6
ANT	Dutch	T	0.0
ANT	English	F	7.8
ANT	Papiamentu	T	86.2
ARE	Arabic	T	42.0
ARE	Hindi	F	0.0
ARG	Indian Languages	F	0.3