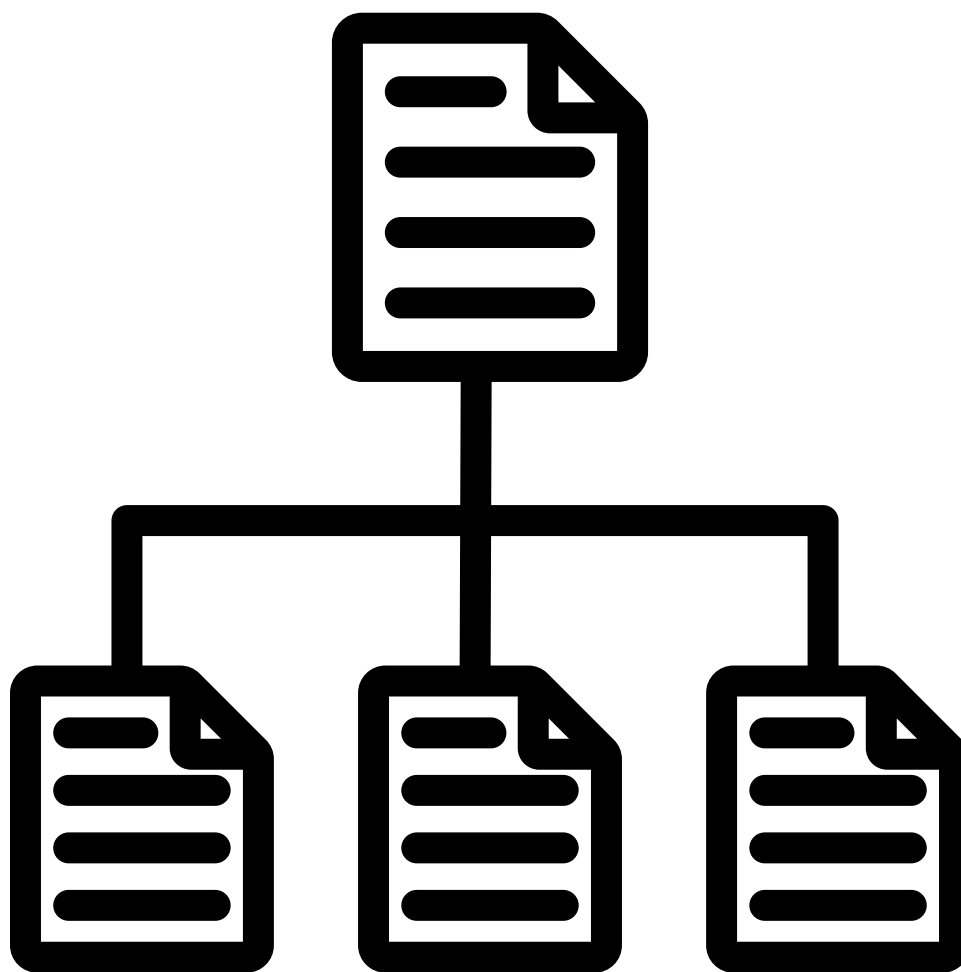




34°

Lab - AWS re/Start

Organización de datos

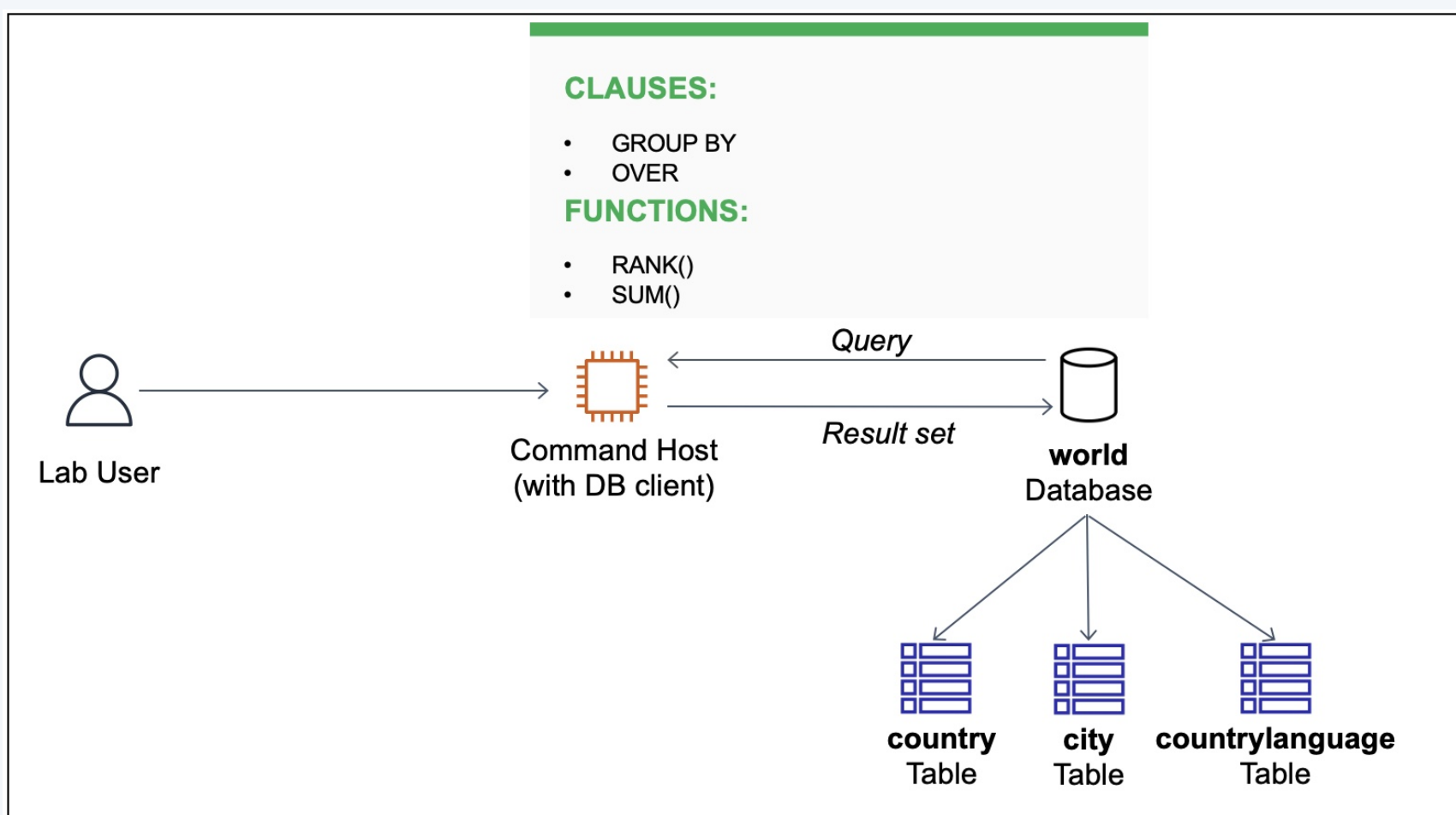




Realizando consultas a la base de datos

A continuación, se muestra los objetivos del laboratorio:

- Usar la cláusula **GROUP BY** con la función de agregación **SUM()**
- Usar la cláusula **OVER** con la función de ventana **RANK()**
- Usar la cláusula **OVER** con la función de agregación **SUM()** y la función de ventana **RANK()**



Tarea 01



En este laboratorio utilizaremos las siguientes cláusulas:

- **GROUP BY()**, agrupa los registros relacionados según un campo definido
- **OVER ()**, nos permite hacer particiones de cierto campo de la tabla. Dicha partición puede ser usada dentro de una función como **sum()** o **rank()**

La sgte consulta devuelve una **SUM()** de Population para la región Australia and New Zealand. Ya que la cláusula **WHERE** está filtrada por Region, solo se agregan los registros de Australia and New Zealand.

```
MariaDB [(none)]> SELECT Region, SUM(Population) FROM world.country WHERE Region = 'Australia and New Zealand' GROUP By Region ORDER By SUM(Population) desc;
+-----+-----+
| Region | SUM(Population) |
+-----+-----+
| Australia and New Zealand | 22753100 |
+-----+-----+
1 row in set (0.002 sec)
```

Mientras que esta consulta te mostrará la región, el nombre, la población y la suma acumulativa de la población para cada país en la región 'Australia and New Zealand', ordenada por la población.

```
MariaDB [(none)]> SELECT Region, Name, Population, SUM(Population) OVER(partition by Region ORDER BY Population) as 'Running Total' FROM world.country WHERE region = 'Australia and New Zealand';
+-----+-----+-----+-----+
| Region | Name | Population | Running Total |
+-----+-----+-----+-----+
| Australia and New Zealand | Cocos (Keeling) Islands | 600 | 600 |
| Australia and New Zealand | Norfolk Island | 2000 | 2600 |
| Australia and New Zealand | Christmas Island | 2500 | 5100 |
| Australia and New Zealand | New Zealand | 3862000 | 3867100 |
| Australia and New Zealand | Australia | 18886000 | 22753100 |
+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

Finalmente, usando la función **rank()**

```
MariaDB [(none)]> SELECT Region, Name, Population, SUM(Population) OVER(partition by Region ORDER BY Population) as 'Running Total', RANK() over(partition by region ORDER BY population) as 'Ranked' FROM world.country WHERE region = 'Australia and New Zealand';
+-----+-----+-----+-----+-----+
| Region | Name | Population | Running Total | Ranked |
+-----+-----+-----+-----+-----+
| Australia and New Zealand | Cocos (Keeling) Islands | 600 | 600 | 1 |
| Australia and New Zealand | Norfolk Island | 2000 | 2600 | 2 |
| Australia and New Zealand | Christmas Island | 2500 | 5100 | 3 |
| Australia and New Zealand | New Zealand | 3862000 | 3867100 | 4 |
| Australia and New Zealand | Australia | 18886000 | 22753100 | 5 |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```