

FUNCIONES DE AGREGACIÓN

Mostrar la cantidad de países que hay en cada continente [registros esperados: 7]

CONSULTA: SELECT Continent, COUNT(*) as cantidad_de_paises FROM country GROUP BY Continent;

```
MariaDB [world]> SELECT Continent, COUNT(*) as cantidad_de_paises FROM country GROUP BY Continent;
```

Continent	cantidad_de_paises
Asia	51
Europe	46
North America	37
Africa	58
Oceania	28
Antarctica	5
South America	14

```
7 rows in set (0.002 sec)
```

```
MariaDB [world]>
```

Mostrar la cantidad de países que hay en cada continente y en cada región, únicamente para subtotales mayores a 10 [registros esperados: 8]

CONSULTA: SELECT Continent, Region, COUNT(*) AS cantidad_de_paises FROM country GROUP BY Continent, Region HAVING cantidad_de_paises > 10;

```
MariaDB [world]> SELECT Continent, Region, COUNT(*) AS cantidad_de_paises FROM country GROUP BY Continent, Region HAVING cantidad_de_paises > 10;
```

Continent	Region	cantidad_de_paises
Asia	Middle East	18
Asia	Southeast Asia	11
Asia	Southern and Central Asia	14
Europe	Southern Europe	15
North America	Caribbean	24
Africa	Eastern Africa	20
Africa	Western Africa	17
South America	South America	14

```
8 rows in set (0.003 sec)
```

```
MariaDB [world]>
```

Mostrar la población de cada distrito en Argentina [registros esperados: 20]

CONSULTA: SELECT District, SUM(Population) as poblacion FROM city WHERE CountryCode='ARG' GROUP BY District;

```
MariaDB [world]> SELECT District, SUM(Population) as poblacion FROM city WHERE CountryCode='ARG' GROUP BY District;
```

District	poblacion
BUENOS AIRES	10530136
CATAMARCA	134935
CHACO	229212
CHUBUT	124104
CÓRDOBA	1291862
CORRIENTES	258103
DISTRITO FEDERAL	2982146
ENTRE RIOS	323526
FORMOSA	147636
JUJUY	178748
LA RIOJA	138117
MENDOZA	771094
MISIONES	201273
NEUQUÉN	167296
SALTA	367550
SAN JUAN	119152
SAN LUIS	110136
SANTA FÉ	1260781
SANTIAGO DEL ESTERO	189947
TUCUMÁN	470809

```
20 rows in set (0.002 sec)
```

```
MariaDB [world]>
```

Mostrar ID de país y la cantidad de idiomas que se hablan en ese país
[registros esperados: 233]

CONSULTA: SELECT CountryCode, COUNT(Language) as Cantidad_idiomas FROM
countrylanguage GROUP BY CountryCode;

```
:20
SEM MVP ~/D /Da MOD + Update Warp
~/Desktop/backup/4_semestre/modelos_de_datos/ejercicios
sudo mariadb -u root -p
+-----+
| TCA |      1 |
| TCD |      8 |
| TGO |      8 |
| THA |      6 |
| TJK |      3 |
| TKL |      2 |
| TKM |      4 |
| TMP |      2 |
| TON |      2 |
| TTO |      3 |
| TUN |      3 |
| TUR |      3 |
| TUV |      3 |
| TWN |      6 |
| TZA |     11 |
| UGA |     10 |
| UKR |      7 |
| UMI |      1 |
| URY |      1 |
| USA |     12 |
| UZB |      6 |
| VAT |      1 |
| VCT |      2 |
| VEN |      3 |
| VGB |      1 |
| VIR |      3 |
| VNM |      9 |
| VUT |      3 |
| WLF |      2 |
| WSM |      3 |
| YEM |      2 |
| YUG |      6 |
| ZAF |     11 |
| ZMB |      6 |
| ZWE |      4 |
+-----+
233 rows in set (0.003 sec)

MariaDB [world]>
```

Mostrar nombre de país y la cantidad de idiomas que se hablan en ese país, sólo para los países en los que se habla más de 1 idioma [registros esperados: 212]

NOTA: esta consulta no puedo mostrar el nombre del país porque me tocaría hacer uso de algo que no hemos visto en clase así que mostré el código del país

CONSULTA: SELECT CountryCode, COUNT(Language) AS cantidad_idiomas FROM countrylanguage GROUP BY CountryCode HAVING cantidad_idiomas > 1;

```
5:00
SEM MVP ~/D /Da MOD + Update Warp
~/Desktop/backup/4_semestre/modelos_de_datos/ejercicios
sudo mariadb -u root -p
+-----+-----+
| SVN |      3 |
| SWE |      6 |
| SWZ |      2 |
| SYC |      3 |
| SYR |      2 |
| TCD |      8 |
| TGO |      8 |
| THA |      6 |
| TJK |      3 |
| TKL |      2 |
| TKM |      4 |
| TMP |      2 |
| TON |      2 |
| TTO |      3 |
| TUN |      3 |
| TUR |      3 |
| TUV |      3 |
| TWN |      6 |
| TZA |     11 |
| UGA |     10 |
| UKR |      7 |
| USA |     12 |
| UZB |      6 |
| VCT |      2 |
| VEN |      3 |
| VIR |      3 |
| VNM |      9 |
| VUT |      3 |
| WLF |      2 |
| WSM |      3 |
| YEM |      2 |
| YUG |      6 |
| ZAF |     11 |
| ZMB |      6 |
| ZWE |      4 |
+-----+-----+
212 rows in set (0.004 sec)

MariaDB [world]>
```

Mostrar la cantidad de países por continente y por región, mostrando subtotales por cada cambio de continente y un total general, únicamente para los continentes y regiones que tengan más de 1 país [registros esperados: 32]

CONSULTA: SELECT Continent, Region, COUNT(*) as cantidad_paises FROM country GROUP BY Continent, Region WITH ROLLUP HAVING cantidad_paises > 1;

```
5:04
SEM MVP ~/D /Da MOD + Update Warp
~/Desktop/backup/4_semestre/modelos_de_datos/ejercicios
sudo mariadb -u root -p
+-----+-----+-----+
| Continent | Region | cantidad_paises |
+-----+-----+-----+
| Asia | Eastern Asia | 8 |
| Asia | Middle East | 18 |
| Asia | Southeast Asia | 11 |
| Asia | Southern and Central Asia | 14 |
| Asia | NULL | 51 |
| Europe | Baltic Countries | 3 |
| Europe | British Islands | 2 |
| Europe | Eastern Europe | 10 |
| Europe | Nordic Countries | 7 |
| Europe | Southern Europe | 15 |
| Europe | Western Europe | 9 |
| Europe | NULL | 46 |
| North America | Caribbean | 24 |
| North America | Central America | 8 |
| North America | North America | 5 |
| North America | NULL | 37 |
| Africa | Central Africa | 9 |
| Africa | Eastern Africa | 20 |
| Africa | Northern Africa | 7 |
| Africa | Southern Africa | 5 |
| Africa | Western Africa | 17 |
| Africa | NULL | 58 |
| Oceania | Australia and New Zealand | 5 |
| Oceania | Melanesia | 5 |
| Oceania | Micronesia | 7 |
| Oceania | Polynesia | 10 |
| Oceania | NULL | 28 |
| Antarctica | Antarctica | 5 |
| Antarctica | NULL | 5 |
| South America | South America | 14 |
| South America | NULL | 14 |
| NULL | NULL | 239 |
+-----+-----+-----+
32 rows in set (0.003 sec)

MariaDB [world]>
```

Nota: Al intentar utilizar la función GROUPING() MariaDB no lo detecta por algún motivo, según ChatGPT indica que MariaDB no lo soporta, así que apliqué una lógica ligeramente distinta para hacer lo que se indicó

CONSULTA: SELECT IF(Continent IS NULL, 'TOTAL CONTINENTE', Continent) AS Continente, IF(Region IS NULL, 'TOTAL REGION', Region) AS Region, COUNT(*) AS cantidad_paises FROM country GROUP BY Continent, Region WITH ROLLUP HAVING COUNT(*) > 1;

Continente	Region	cantidad_paises
Asia	Eastern Asia	8
Asia	Middle East	18
Asia	Southeast Asia	11
Asia	Southern and Central Asia	14
Asia	TOTAL REGION	51
Europe	Baltic Countries	3
Europe	British Islands	2
Europe	Eastern Europe	10
Europe	Nordic Countries	7
Europe	Southern Europe	15
Europe	Western Europe	9
Europe	TOTAL REGION	46
North America	Caribbean	24
North America	Central America	8
North America	North America	5
North America	TOTAL REGION	37
Africa	Central Africa	9
Africa	Eastern Africa	20
Africa	Northern Africa	7
Africa	Southern Africa	5
Africa	Western Africa	17
Africa	TOTAL REGION	58
Oceania	Australia and New Zealand	5
Oceania	Melanesia	5
Oceania	Micronesia	7
Oceania	Polynesia	10
Oceania	TOTAL REGION	28
Antarctica	Antarctica	5
Antarctica	TOTAL REGION	5
South America	South America	14
South America	TOTAL REGION	14
TOTAL CONTINENTE	TOTAL REGION	239

32 rows in set, 1 warning (0.003 sec)