

## VISTAS

Crear la vista "v\_countries\_01" con los siguientes campos de la tabla "country":

- id (corresponde al campo "Code" en la tabla)
- name (corresponde al campo "Name" en la tabla)
- relative\_size:
  - "SMALL" si el área es menor o igual a 1'000.000 m2
  - "MEDIUM" si el área es menor o igual a 5'000.000 m2
  - "BIG" si el área es mayor a 5'000.000 m2

```
MariaDB [world]> CREATE VIEW v_countries_01 AS
->     SELECT CODE AS country_code,
->           NAME AS country_name,
->           CASE
->             WHEN SurfaceArea <= 1000000 THEN 'SMALL'
->             WHEN SurfaceArea <= 5000000 THEN 'MEDIUM'
->             ELSE 'BIG'
->           END AS area_category
->     FROM country;
-> $$
Query OK, 0 rows affected (0.008 sec)
```

SDN	Sudan	MEDIUM
SEN	Senegal	SMALL
SGP	Singapore	SMALL
SGS	South Georgia and the South Sandwich Islands	SMALL
SHN	Saint Helena	SMALL
SJM	Svalbard and Jan Mayen	SMALL
SLB	Solomon Islands	SMALL
SLE	Sierra Leone	SMALL
SLV	El Salvador	SMALL
SMR	San Marino	SMALL
SOM	Somalia	SMALL
SPM	Saint Pierre and Miquelon	SMALL
STP	Sao Tome and Principe	SMALL
SUR	Suriname	SMALL
SVK	Slovakia	SMALL
SVN	Slovenia	SMALL
SWE	Sweden	SMALL
SWZ	Swaziland	SMALL
SYC	Seychelles	SMALL
SYR	Syria	SMALL
TCA	Turks and Caicos Islands	SMALL
TCO	Chad	MEDIUM
TGO	Togo	SMALL
THA	Thailand	SMALL
TJK	Tajikistan	SMALL
TKL	Tokelau	SMALL
TKM	Turkmenistan	SMALL
TMP	East Timor	SMALL
TON	Tonga	SMALL
TTO	Trinidad and Tobago	SMALL
TUN	Tunisia	SMALL
TUR	Turkey	SMALL
TUV	Tuvalu	SMALL
TWN	Taiwan	SMALL
TZA	Tanzania	SMALL
UGA	Uganda	SMALL
UKR	Ukraine	SMALL
UMI	United States Minor Outlying Islands	SMALL
URY	Uruguay	SMALL
USA	United States	BIG
UZB	Uzbekistan	SMALL
VAT	Holy See (Vatican City State)	SMALL
VCT	Saint Vincent and the Grenadines	SMALL
VEN	Venezuela	SMALL
VGB	Virgin Islands, British	SMALL
VIR	Virgin Islands, U.S.	SMALL
VNM	Vietnam	SMALL
VUT	Vanuatu	SMALL
WLF	Wallis and Futuna	SMALL
WSM	Samoa	SMALL
YEM	Yemen	SMALL
YUG	Yugoslavia	SMALL
ZAF	South Africa	MEDIUM
ZMB	Zambia	SMALL
ZWE	Zimbabwe	SMALL

239 rows in set (0.002 sec)

Crear la vista "v\_countries\_02" igual al ejercicio anterior pero sólo con los países de norte américa y sur américa.

Una vez revisados los datos, cambiar el área de algún país al azar y repetir la ejecución de la vista. Validar que los resultados reflejen los cambios en el tamaño del país.

```
MariaDB [world]> CREATE VIEW v_countries_02 AS
-> SELECT CODE AS country_code,
->        NAME AS country_name,
->        CASE
->            WHEN SurfaceArea <= 1000000 THEN 'SMALL'
->            WHEN SurfaceArea <= 5000000 THEN 'MEDIUM'
->            ELSE 'BIG'
->        END AS area_category
-> FROM country
-> WHERE Continent IN ('North America', 'South America');
-> $$
Query OK, 0 rows affected (0.008 sec)
```

Antes del cambio colombia es MEDIUM:

```
MariaDB [world]> SELECT * FROM v_countries_02$$
+-----+-----+-----+
| country_code | country_name | area_category |
+-----+-----+-----+
| ABW | Aruba | SMALL |
| AIA | Anguilla | SMALL |
| ANT | Netherlands Antilles | SMALL |
| ARG | Argentina | MEDIUM |
| ATG | Antigua and Barbuda | SMALL |
| BHS | Bahamas | SMALL |
| BLZ | Belize | SMALL |
| BMU | Bermuda | SMALL |
| BOL | Bolivia | MEDIUM |
| BRA | Brazil | BIG |
| BRB | Barbados | SMALL |
| CAN | Canada | BIG |
| CHL | Chile | SMALL |
| COL | Colombia | MEDIUM |
| CRI | Costa Rica | SMALL |
| CUB | Cuba | SMALL |
| CYM | Cayman Islands | SMALL |
| DMA | Dominica | SMALL |
| DOM | Dominican Republic | SMALL |
| ECU | Ecuador | SMALL |
| FLK | Falkland Islands | SMALL |
| GLP | Guadeloupe | SMALL |
| GRD | Grenada | SMALL |
| GRL | Greenland | MEDIUM |
| GTM | Guatemala | SMALL |
| GUF | French Guiana | SMALL |
| GUY | Guyana | SMALL |
| HND | Honduras | SMALL |
| HTI | Haiti | SMALL |
| JAM | Jamaica | SMALL |
| KNA | Saint Kitts and Nevis | SMALL |
| LCA | Saint Lucia | SMALL |
| MEX | Mexico | MEDIUM |
| MSR | Montserrat | SMALL |
| MTQ | Martinique | SMALL |
| NIC | Nicaragua | SMALL |
| PAN | Panama | SMALL |
| PER | Peru | MEDIUM |
| PRI | Puerto Rico | SMALL |
| PRY | Paraguay | SMALL |
| SLV | El Salvador | SMALL |
| SPM | Saint Pierre and Miquelon | SMALL |
| SUR | Suriname | SMALL |
| TCA | Turks and Caicos Islands | SMALL |
| TTO | Trinidad and Tobago | SMALL |
| URY | Uruguay | SMALL |
| USA | United States | BIG |
| VCT | Saint Vincent and the Grenadines | SMALL |
| VEN | Venezuela | SMALL |
| VGB | Virgin Islands, British | SMALL |
| VIR | Virgin Islands, U.S. | SMALL |
+-----+-----+-----+
51 rows in set (0.002 sec)
```

UPDATE country SET SurfaceArea = 6000000 WHERE Code = 'COL';

country_code	country_name	area_category
ABW	Aruba	SMALL
AIA	Anguilla	SMALL
ANT	Netherlands Antilles	SMALL
ARG	Argentina	MEDIUM
ATG	Antigua and Barbuda	SMALL
BHS	Bahamas	SMALL
BLZ	Belize	SMALL
BMU	Bermuda	SMALL
BOL	Bolivia	MEDIUM
BRA	Brazil	BIG
BRB	Barbados	SMALL
CAN	Canada	BIG
CHL	Chile	SMALL
COL	Colombia	BIG
COT	Costa Rica	SMALL

Crear la vista "v\_countries\_02" con los campos "Code", "Name", "Continent" e "IndepYear". Adicionar un campo calculado que indique hace cuantos años obtuvo cada país su independencia. Este debe ser un número entero. Una vez revisados los datos, cambiar el año de independencia de algún país al azar y repetir la ejecución de la vista. Validar que los resultados reflejen los cambios.

```
MariaDB [world]> CREATE VIEW v_countries_03 AS
-> SELECT CODE AS id,
->         NAME,
->         Continent,
->         IndepYear,
->         FLOOR(DATEDIFF(NOW(), STR_TO_DATE(CONCAT(IndepYear, '-01-01'), '%Y-%m-%d')) / 365) AS years_since_independence
-> FROM country;
-> $$
Query OK, 0 rows affected (0.024 sec)

MariaDB [world]>
```

antes del update

```
MariaDB [world]> SELECT * FROM v_countries_03$$
```

id	NAME	Continent	IndepYear	years_since_independence
ABW	Aruba	North America	NULL	NULL
AFG	Afghanistan	Asia	1919	105
AGO	Angola	Africa	1975	49
AIA	Anguilla	North America	NULL	NULL
ALB	Albania	Europe	1912	112
AND	Andorra	Europe	1278	747
ANT	Netherlands Antilles	North America	NULL	NULL
ARE	United Arab Emirates	Asia	1971	53
ARG	Argentina	South America	1816	208
ARM	Armenia	Asia	1991	33

despues del update

```
MariaDB [world]> UPDATE country SET IndepYear = '2005' WHERE Code = 'AFG';$$
Query OK, 1 row affected (0.003 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [world]> SELECT * FROM v_countries_03$$
```

id	NAME	Continent	IndepYear	years_since_independence
ABW	Aruba	North America	NULL	NULL
AFG	Afghanistan	Asia	2005	19
AGO	Angola	Africa	1975	49

Crear la vista "v\_countries\_04" con los siguientes campos de las tablas "country" y "countrylanguage":

- id del país (corresponde al campo "Code" en la tabla "Country")
- language\_name (corresponde al campo "Language" en la tabla "countrylanguage")
- is\_official (corresponde al campo "IsOfficial" en la tabla "countrylanguage")
- Debe mostrar los idiomas hablados en todos y cada uno de los países

```
MariaDB [world]> CREATE VIEW v_countries_04 AS
-> SELECT country.Code AS id,
->        countrylanguage.Language AS language_name,
->        countrylanguage.IsOfficial AS is_official
-> FROM country
-> JOIN countrylanguage ON country.Code = countrylanguage.CountryCode;
-> $$
Query OK, 0 rows affected (0.007 sec)
```

```
MariaDB [world]> SELECT * FROM v_countries_04$$
```

id	language_name	is_official
ABW	Dutch	T
ABW	English	F
ABW	Papiamentu	F
ABW	Spanish	F
AFG	Balochi	F
AFG	Dari	T
AFG	Pashto	T
AFG	Turkmenian	F
AFG	Uzbek	F
AGO	Ambo	F
AGO	Chokwe	F
AGO	Kongo	F
AGO	Luchazi	F
AGO	Luimbe-nganguela	F
AGO	Luvale	F
AGO	Mbundu	F
AGO	Nyaneka-nkhumbi	F
AGO	Ovimbundu	F
AIA	English	T
ALB	Albaniana	T
ALB	Greek	F
ALB	Macedonian	F
AND	Catalan	T
AND	French	F
AND	Portuguese	F
AND	Spanish	F
ANT	Dutch	T
ANT	English	F
ANT	Papiamentu	T
ARE	Arabic	T
ARE	Hindi	F
ARG	Indian Languages	F
ARG	Italian	F
ARG	Spanish	T
ARM	Armenian	T
ARM	Azerbaijani	F
ASM	English	T

Crear la vista "v\_cities\_countries\_01" con los siguientes campos de las tablas "country" y "city":

- id del país, id de la ciudad, nombre del país, nombre de la ciudad.
- El resultado debe estar ordenado alfabéticamente, ascendente, primero por nombre de país y luego por nombre de ciudad.

La idea es mostrar las ciudades en cada uno de los países

```
MariaDB [world]> CREATE VIEW v_cities_countries_01 AS
->     SELECT country.Code AS country_id,
->           city.ID AS city_id,
->           country.Name AS country_name,
->           city.Name AS city_name
->     FROM country
->     JOIN city ON country.Code = city.CountryCode
->     ORDER BY country.Name ASC, city.Name ASC;
-> $$
Query OK, 0 rows affected (0.008 sec)

MariaDB [world]>
```

```
MariaDB [world]> SELECT * FROM v_cities_countries_01$$
```

country_id	city_id	country_name	city_name
AFG	3	Afghanistan	HERAT
AFG	1	Afghanistan	KABUL
AFG	4	Afghanistan	MAZAR-E-SHARIF
AFG	2	Afghanistan	QANDAHAR
ALB	34	Albania	TIRANA
DZA	35	Algeria	ALGER
DZA	38	Algeria	ANNABA
DZA	39	Algeria	BATNA
DZA	49	Algeria	BÉCHAR
DZA	45	Algeria	BÉJAÏA
DZA	43	Algeria	BISKRA
DZA	44	Algeria	BLIDA (EL-BOULIDA)
DZA	37	Algeria	CONSTANTINE
DZA	51	Algeria	ECH-CHLEFF (EL-ASNAM)
DZA	52	Algeria	GHARDAÏA
DZA	46	Algeria	MOSTAGANEM
DZA	36	Algeria	ORAN
DZA	40	Algeria	SÉTIF
DZA	41	Algeria	SIDI BEL ABBÈS
DZA	42	Algeria	SKIKDA
DZA	47	Algeria	TÉBESSA
DZA	50	Algeria	TIARET
DZA	48	Algeria	TLEMCEEN (TILIMSEN)