

```
mondial=# SELECT country, gdp FROM economy ORDER BY gdp DESC NULLS LAST LIMIT 10;
country | gdp
-----+-----
USA    | 16720000
CN     | 9330000
J      | 5007000
D      | 3593000
F      | 2739000
GB     | 2490000
BR     | 2190000
R      | 2113000
I      | 2068000
CDN    | 1825000
(10 rows) Network

```

GROUP BY along with other stuff.

- 3) Get the same list, but join the country code to the country name.
- 4) Get a list of the 10 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.
- 5) Get a list of the 20 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.
- 6) Finally, modify that last query so that you only get language results by the highest average percentage of speakers. Hint: GROUP BY along with other stuff.

```
mondial=# SELECT country, gdp FROM economy WHERE gdp <20000 ORDER BY gdp DESC NULLS LAST LIMIT 10;
country | gdp
-----+-----
G      | 19970
NEP    | 19340
HCA    | 18880
BIH    | 18870
ZRE    | 18560
GQ     | 17080
BRU    | 16560
PNG    | 16100
GE     | 15950
K      | 15640
(10 rows) Network

```



```
mondial=# SELECT country, gdp FROM economy WHERE gdp <20000 ORDER BY gdp LIMIT 10;
country | gdp
-----+-----
TOK    | 1.5
NIUE   | 10
HELX   | 18
MNTS   | 29
TUV    | 38
WAFU   | 60
NAU    | 100
FALK   | 164.5
KIR    | 173
AXA    | 175.4
(10 rows) Network

```

names of the countries not the country code: SELECT -- FROM economy

6) Invent your own query for the economy table--as simple as possible.

PART TWO: AGGREGATE QUERIES (3 POINTS)

Do the following for queries using the 'language' table.

- 1) Find the top 10 most dominant languages (highest percentage of speakers). Hint: GROUP BY along with other stuff.
- 2) Get a list of the 10 countries with the most languages spoken. Hint: GROUP BY along with other stuff.
- 3) Get the same list, but join the country code to the country name.
- 4) Get a list of the 10 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.
- 5) Get a list of the 20 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.
- 6) Finally, modify that last query so that you only get language results by the highest average percentage of speakers. Hint: GROUP BY along with other stuff.

```
mondial=# SELECT country, inflation FROM economy ORDER BY inflation DESC NULLS LAST LIMIT 10;
country | inflation
-----+-----
SYR    | 59.1
YV     | 56.2
IR     | 42.3
MW     | 26.9
SUD    | 25
RA     | 20.8
BY     | 19
WEST   | 14
ER     | 13
MH     | 12.9
(10 rows) Network

```

3) Get the same list, but join the country code to the country name.

4) Get a list of the 10 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.

5) Get a list of the 20 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.

6) Finally, modify that last query so that you only get language results by the highest average percentage of speakers. Hint: GROUP BY along with other stuff.

```
mondial=# SELECT country, agriculture FROM economy WHERE agriculture >50 ORDER BY agriculture DESC;
country | agriculture
-----+-----
FALK   | 95
LB     | 76.9
SP     | 59.3
GNB    | 58
RCA    | 56.6
COM    | 51
(6 rows) Network

```

7) Get a list of the 10 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.

8) Get a list of the 20 languages that are most commonly spoken, except it should have a third column that has the average percentage of speakers. Hint: GROUP BY along with other stuff.

9) Finally, modify that last query so that you only get language results by the highest average percentage of speakers. Hint: GROUP BY along with other stuff.

```

mondial=# SELECT country.name, unemployment FROM economy JOIN country ON economy.country = country.code ORDER BY unemployment DESC NULLS LAST
          GROUP BY country.name ORDER BY country.name
LIMIT 10;
   name      | unemployment
-----+-----
Zimbabwe    |      95
Nauru       |      90
Liberia     |      85
Burkina Faso |      77
Turkmenistan |      60
Djibouti     |      59
Congo        |      53
Senegal      |      48
Nepal        |      46
Bosnia and Herzegovina | 44.3
(10 rows)

```

```

mondial=# SELECT country.name, service, industry, gdp FROM economy JOIN country ON economy.country = country.code WHERE service >40 AND INDUS
TRY >40 ORDER BY gdp DESC NULLS LAST;
   name      | service | industry | gdp
-----+-----+-----+-----+
China      | Pictures |      46.1 | 9330000
Norway     | Videos  |      56.5 | 515800
Iran        | OS (C)  |      44.5 | 411900
Thailand   | OS (C)  |      44.2 | 400900
Malaysia   | Media (M) |      48.1 | 312400
Kuwait     | Media (M) |      49.1 | 179500
Puerto Rico | Domestically | 50.5 | 93520
Belarus    | Other (Z) |      44.7 | 69240
Trinidad and Tobago | Other (Z) |      42 | 27130
Swaziland  | Other (Z) |      44.6 | 3807
Bhutan     | Other (Z) |      45 | 2133
(11 rows)

```

```

mondial=# SELECT language.name, country.name, percentage FROM language JOIN country ON language.country = country.code WHERE percentage =100
ORDER BY percentage DESC NULLS LAST, language.name, country;
   name      |           name      | percentage
-----+-----+-----+
Arabic     | Saudi Arabia      |      100
Burmese   | Myanmar           |      100
Dutch      | Netherlands        |      100
English    | Antigua and Barbuda | 100
English    | Anguilla           |      100
English    | Barbados           |      100
English    | British Virgin Islands | 100
English    | Falkland Islands   |      100
English    | Isle of Man         |      100
English    | Saint Helena         |      100
English    | Saint Kitts and Nevis | 100
English    | Montserrat          |      100
English    | Turks and Caicos Islands | 100
French     | French Guiana       |      100
French     | Guinea              |      100
French     | Saint Pierre and Miquelon | 100
German     | Germany             |      100
German     | Liechtenstein       |      100
Icelandic  | Iceland             |      100
Italian   | San Marino          |      100
Japanese  | Japan               |      100
Korean     | North Korea          |      100
Nepali     | Nepal               |      100
Pitkern    | Pitcairn            |      100
Polish     | Poland               |      100
Portuguese | Mozambique          |      100
Portuguese | Portugal             |      100
Portuguese | Sao Tome and Principe | 100
Russian    | Russia              |      100
Spanish   | Cuba                |      100
Spanish   | Dominican Republic   | 100
Spanish   | Argentina            |      100
Spanish   | Chile                |      100
(33 rows)

```

mondial=#

mondial=# SELECT country, COUNT(name) FROM language GROUP BY country ORDER BY count(name) DESC LIMIT 10; with other stuff,

country	count
PK	8
IR	7
SF	7
AUS	6
NLSM	6
GNB	6
NZ	6
BZ	6
MC	6
A	6

(10 rows)

should have two columns, the country and the number of countries it appears in.

3) Get a list of the 10 languages that are most commonly spoken. Hint: you can use the GROUP BY clause in your query.

4) Get a list of the 10 languages that are most commonly spoken. Hint: you can use the GROUP BY clause in your query.

5) Get a list of the 20 languages that are most commonly spoken. Hint: you can use the GROUP BY clause in your query, except it should have a third column that has the average percentage of speakers.

6) Finally, modify that last query so that you only get language results by the highest average percentage of speakers. Hint: you can use the GROUP BY clause in your query.

```
mondial=# SELECT country.name, COUNT(language.name) FROM language JOIN country ON language.country = country.code GROUP BY country.name ORDER BY count(language.name) DESC LIMIT 10;
   name    | count
-----+-----
Pakistan |     8
Finland |     7
Iran    |     7
Austria |     6
New Zealand |     6
Sint Maarten |     6
Australia |     6
Monaco  |     6
Belize  |     6
Guinea-Bissau |     6
(10 rows)
```

3) Get the same list, but join the country code to the country table.

4) Get a list of the 10 languages that are most commonly spoken in the language table and the number of countries it appears in.

5) Get a list of the 20 languages that are most commonly spoken in the language table. Hint: use ORDER BY along with other stuff.

6) Finally, modify that last query so that you only get languages by the highest average percentage of speakers. Hint: use GROUP BY along with other stuff.

```
mondial=# SELECT name, COUNT(country) FROM language GROUP BY name ORDER BY count(country) DESC, name LIMIT 10; ON city.country = country.code
   name    | count
-----+-----
English |    35
Spanish |    26
French  |    17
Russian |    14
German  |    11
Portuguese |    10
Arabic  |     8
Creole  |     6
Serbian |     6
Turkish |     6
(10 rows)
```

SELECT country.name, unemployment FROM economy JOIN country ON country.name = language.name GROUP BY country.name ORDER BY country.name

SELECT language.name, country.name, percentage FROM language JOIN country ON language.name = country.name GROUP BY language.name

SELECT country.name, COUNT(name) FROM language GROUP BY country.name

SELECT country.name, COUNT(language.name) FROM language GROUP BY country.name

SELECT name, COUNT(country) FROM language GROUP BY name

```
mondial=# SELECT name, COUNT(country), ROUND(AVG(percentage),2) AS average FROM language GROUP BY name ORDER BY count(country) DESC, name LIMIT 20;
   name    | count | average
-----+-----+-----
English |    35 | 55.94
Spanish |    26 | 72.64
French  |    17 | 42.26
Russian |    14 | 23.59
German  |    11 | 36.14
Portuguese |    10 | 43.96
Arabic  |     8 | 49.81
Creole  |     6 | 53.38
Serbian |     6 | 26.88
Turkish |     6 | 18.83
Albanian |     5 | 44.26
Dutch   |     5 | 34.04
Hungarian |     5 | 22.98
Italian |     5 | 45.12
Roma    |     5 | 1.94
Greek   |     4 | 44.70
Armenian |     3 | 35.40
Chinese |     3 | 33.40
Croatian |     3 | 35.20
Hebrew  |     3 | 31.20
(20 rows)
```

Do the following for queries using the language table.

1) Find the top 10 most dominant languages (highest percentage). Hint: use ORDER BY along with other stuff.

2) Get a list of the 10 countries with the most languages spoken. Hint: use GROUP BY along with other stuff.

3) Get the same list, but join the country code to the country table.

4) Get a list of the 10 languages that are most commonly spoken in the language table and the number of countries it appears in.

5) Get a list of the 20 languages that are most commonly spoken in the language table. Hint: use ORDER BY along with other stuff.

6) Finally, modify that last query so that you only get languages by the highest average percentage of speakers. Hint: use GROUP BY along with other stuff.

```
mondial=# SELECT name, COUNT(country), ROUND(AVG(percentage),2) AS average FROM language GROUP BY name HAVING count(country) > 4 ORDER BY average DESC, name;
   name    | count | average
-----+-----+-----
Spanish |    26 | 72.64
English |    35 | 55.94
Creole  |     6 | 53.38
Arabic  |     8 | 49.81
Italian |     5 | 45.12
Albanian |     5 | 44.26
Portuguese |    10 | 43.96
French  |    17 | 42.26
German  |    11 | 36.14
Dutch   |     5 | 34.04
Serbian |     6 | 26.88
Russian |    14 | 23.59
Hungarian |     5 | 22.98
Turkish |     6 | 18.83
Roma    |     5 | 1.94
(15 rows)
```

Do the following for queries using the language table.

1) Find the top 10 most dominant languages (highest percentage). Hint: use ORDER BY along with other stuff.

2) Get a list of the 10 countries with the most languages spoken. Hint: use GROUP BY along with other stuff.

3) Get the same list, but join the country code to the country table.

4) Get a list of the 10 languages that are most commonly spoken in the language table and the number of countries it appears in.

5) Get a list of the 20 languages that are most commonly spoken in the language table. Hint: use ORDER BY along with other stuff.

6) Finally, modify that last query so that you only get languages by the highest average percentage of speakers. Hint: use GROUP BY along with other stuff.