**XII Computer Science**

**SQL Practical File**

**Name :** Varad Mahashabde

**Class :** XII **Sec :** A

**Roll no.:** 29

**Code**

* **Country (Practical 1-10)**
  + create\_table.sql

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| CREATE TABLE country (  Code char(3) NOT NULL DEFAULT' ',  Name char(52) NOT NULL DEFAULT' ',  Continent enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') NOT NULL DEFAULT 'Asia',  SurfaceArea decimal(10,2) NOT NULL DEFAULT' 0.00',  IndepYear smallint DEFAULT NULL,  Population int NOT NULL DEFAULT' 0',  LifeExpectancy decimal(3,1) DEFAULT NULL,  GDP decimal(10,2) DEFAULT NULL, -- in $ million USD  PRIMARY KEY (Code)  );  -- Data refined from world.country by  -- CREATE TABLE country AS (  -- SELECT  -- Code, Name, Continent, SurfaceArea, IndepYear, Population, LifeExpectancy, GNP, Capital  -- FROM world.country  -- WHERE Population >= 10000000  -- );  INSERT INTO country VALUES('AFG', 'Afghanistan' ,'Asia' , 652090.00 , 1919 , 22720000 , 45.9 , 5976.00 );  INSERT INTO country VALUES('AGO', 'Angola' ,'Africa' , 1246700.00 , 1975 , 12878000 , 38.3 , 6648.00 );  INSERT INTO country VALUES('ARG', 'Argentina' ,'South America' , 2780400.00 , 1816 , 37032000 , 75.1 , 340238.00 );  INSERT INTO country VALUES('AUS', 'Australia' ,'Oceania' , 7741220.00 , 1901 , 18886000 , 79.8 , 351182.00 );  INSERT INTO country VALUES('BEL', 'Belgium' ,'Europe' , 30518.00 , 1830 , 10239000 , 77.8 , 249704.00 );  INSERT INTO country VALUES('BFA', 'Burkina Faso' ,'Africa' , 274000.00 , 1960 , 11937000 , 46.7 , 2425.00 );  INSERT INTO country VALUES('BGD', 'Bangladesh' ,'Asia' , 143998.00 , 1971 , 129155000 , 60.2 , 32852.00 );  INSERT INTO country VALUES('BLR', 'Belarus' ,'Europe' , 207600.00 , 1991 , 10236000 , 68.0 , 13714.00 );  INSERT INTO country VALUES('BRA', 'Brazil' ,'South America' , 8547403.00 , 1822 , 170115000 , 62.9 , 776739.00 );  INSERT INTO country VALUES('CAN', 'Canada' ,'North America' , 9970610.00 , 1867 , 31147000 , 79.4 , 598862.00 );  INSERT INTO country VALUES('CHL', 'Chile' ,'South America' , 756626.00 , 1810 , 15211000 , 75.7 , 72949.00 );  INSERT INTO country VALUES('CHN', 'China' ,'Asia' , 9572900.00 , 1523 ,1277558000 , 71.4 , 982268.00 );  INSERT INTO country VALUES('CIV', 'CÃ´te dÂ’Ivoire' ,'Africa' , 322463.00 , 1960 , 14786000 , 45.2 , 11345.00 );  INSERT INTO country VALUES('CMR', 'Cameroon' ,'Africa' , 475442.00 , 1960 , 15085000 , 54.8 , 9174.00 );  INSERT INTO country VALUES('COD', 'The Democratic Republic of the Congo' ,'Africa' , 2344858.00 , 1960 , 51654000 , 48.8 , 6964.00 );  INSERT INTO country VALUES('COL', 'Colombia' ,'South America' , 1138914.00 , 1810 , 42321000 , 70.3 , 102896.00 );  INSERT INTO country VALUES('CUB', 'Cuba' ,'North America' , 110861.00 , 1902 , 11201000 , 76.2 , 17843.00 );  INSERT INTO country VALUES('CZE', 'Czech Republic' ,'Europe' , 78866.00 , 1993 , 10278100 , 74.5 , 55017.00 );  INSERT INTO country VALUES('DEU', 'Germany' ,'Europe' , 357022.00 , 1955 , 82164700 , 77.4 ,2133367.00 );  INSERT INTO country VALUES('DZA', 'Algeria' ,'Africa' , 2381741.00 , 1962 , 31471000 , 69.7 , 49982.00 );  INSERT INTO country VALUES('ECU', 'Ecuador' ,'South America' , 283561.00 , 1822 , 12646000 , 71.1 , 19770.00 );  INSERT INTO country VALUES('EGY', 'Egypt' ,'Africa' , 1001449.00 , 1922 , 68470000 , 63.3 , 82710.00 );  INSERT INTO country VALUES('ESP', 'Spain' ,'Europe' , 505992.00 , 1492 , 39441700 , 78.8 , 553233.00 );  INSERT INTO country VALUES('ETH', 'Ethiopia' ,'Africa' , 1104300.00 , 1000 , 62565000 , 45.2 , 6353.00 );  INSERT INTO country VALUES('FRA', 'France' ,'Europe' , 551500.00 , 843 , 59225700 , 78.8 ,1424285.00 );  INSERT INTO country VALUES('GBR', 'United Kingdom' ,'Europe' , 242900.00 , 1066 , 59623400 , 77.7 ,1378330.00 );  INSERT INTO country VALUES('GHA', 'Ghana' ,'Africa' , 238533.00 , 1957 , 20212000 , 57.4 , 7137.00 );  INSERT INTO country VALUES('GRC', 'Greece' ,'Europe' , 131626.00 , 1830 , 10545700 , 78.4 , 120724.00 );  INSERT INTO country VALUES('GTM', 'Guatemala' ,'North America' , 108889.00 , 1821 , 11385000 , 66.2 , 19008.00 );  INSERT INTO country VALUES('HUN', 'Hungary' ,'Europe' , 93030.00 , 1918 , 10043200 , 71.4 , 48267.00 );  INSERT INTO country VALUES('IDN', 'Indonesia' ,'Asia' , 1904569.00 , 1945 , 212107000 , 68.0 , 84982.00 );  INSERT INTO country VALUES('IND', 'India' ,'Asia' , 3287263.00 , 1947 ,1013662000 , 62.5 , 447114.00 );  INSERT INTO country VALUES('IRN', 'Iran' ,'Asia' , 1648195.00 , 1906 , 67702000 , 69.7 , 195746.00 );  INSERT INTO country VALUES('IRQ', 'Iraq' ,'Asia' , 438317.00 , 1932 , 23115000 , 66.5 , 11500.00 );  INSERT INTO country VALUES('ITA', 'Italy' ,'Europe' , 301316.00 , 1861 , 57680000 , 79.0 ,1161755.00 );  INSERT INTO country VALUES('JPN', 'Japan' ,'Asia' , 377829.00 , -660 , 126714000 , 80.7 ,3787042.00 );  INSERT INTO country VALUES('KAZ', 'Kazakstan' ,'Asia' , 2724900.00 , 1991 , 16223000 , 63.2 , 24375.00 );  INSERT INTO country VALUES('KEN', 'Kenya' ,'Africa' , 580367.00 , 1963 , 30080000 , 48.0 , 9217.00 );  INSERT INTO country VALUES('KHM', 'Cambodia' ,'Asia' , 181035.00 , 1953 , 11168000 , 56.5 , 5121.00 );  INSERT INTO country VALUES('KOR', 'South Korea' ,'Asia' , 99434.00 , 1948 , 46844000 , 74.4 , 320749.00 );  INSERT INTO country VALUES('LKA', 'Sri Lanka' ,'Asia' , 65610.00 , 1948 , 18827000 , 71.8 , 15706.00 );  INSERT INTO country VALUES('MAR', 'Morocco' ,'Africa' , 446550.00 , 1956 , 28351000 , 69.1 , 36124.00 );  INSERT INTO country VALUES('MDG', 'Madagascar' ,'Africa' , 587041.00 , 1960 , 15942000 , 55.0 , 3750.00 );  INSERT INTO country VALUES('MEX', 'Mexico' ,'North America' , 1958201.00 , 1810 , 98881000 , 71.5 , 414972.00 );  INSERT INTO country VALUES('MLI', 'Mali' ,'Africa' , 1240192.00 , 1960 , 11234000 , 46.7 , 2642.00 );  INSERT INTO country VALUES('MMR', 'Myanmar' ,'Asia' , 676578.00 , 1948 , 45611000 , 54.9 , 180375.00 );  INSERT INTO country VALUES('MOZ', 'Mozambique' ,'Africa' , 801590.00 , 1975 , 19680000 , 37.5 , 2891.00 );  INSERT INTO country VALUES('MWI', 'Malawi' ,'Africa' , 118484.00 , 1964 , 10925000 , 37.6 , 1687.00 );  INSERT INTO country VALUES('MYS', 'Malaysia' ,'Asia' , 329758.00 , 1957 , 22244000 , 70.8 , 69213.00 );  INSERT INTO country VALUES('NER', 'Niger' ,'Africa' , 1267000.00 , 1960 , 10730000 , 41.3 , 1706.00 );  INSERT INTO country VALUES('NGA', 'Nigeria' ,'Africa' , 923768.00 , 1960 , 111506000 , 51.6 , 65707.00 );  INSERT INTO country VALUES('NLD', 'Netherlands' ,'Europe' , 41526.00 , 1581 , 15864000 , 78.3 , 371362.00 );  INSERT INTO country VALUES('NPL', 'Nepal' ,'Asia' , 147181.00 , 1769 , 23930000 , 57.8 , 4768.00 );  INSERT INTO country VALUES('PAK', 'Pakistan' ,'Asia' , 796095.00 , 1947 , 156483000 , 61.1 , 61289.00 );  INSERT INTO country VALUES('PER', 'Peru' ,'South America' , 1285216.00 , 1821 , 25662000 , 70.0 , 64140.00 );  INSERT INTO country VALUES('PHL', 'Philippines' ,'Asia' , 300000.00 , 1946 , 75967000 , 67.5 , 65107.00 );  INSERT INTO country VALUES('POL', 'Poland' ,'Europe' , 323250.00 , 1918 , 38653600 , 73.2 , 151697.00 );  INSERT INTO country VALUES('PRK', 'North Korea' ,'Asia' , 120538.00 , 1948 , 24039000 , 70.7 , 5332.00 );  INSERT INTO country VALUES('ROM', 'Romania' ,'Europe' , 238391.00 , 1878 , 22455500 , 69.9 , 38158.00 );  INSERT INTO country VALUES('RUS', 'Russian Federation' ,'Europe' ,17075400.00 , 1991 , 146934000 , 67.2 , 276608.00 );  INSERT INTO country VALUES('SAU', 'Saudi Arabia' ,'Asia' , 2149690.00 , 1932 , 21607000 , 67.8 , 137635.00 );  INSERT INTO country VALUES('SDN', 'Sudan' ,'Africa' , 2505813.00 , 1956 , 29490000 , 56.6 , 10162.00 );  INSERT INTO country VALUES('SOM', 'Somalia' ,'Africa' , 637657.00 , 1960 , 10097000 , 46.2 , 935.00 );  INSERT INTO country VALUES('SYR', 'Syria' ,'Asia' , 185180.00 , 1941 , 16125000 , 68.5 , 65984.00 );  INSERT INTO country VALUES('THA', 'Thailand' ,'Asia' , 513115.00 , 1350 , 61399000 , 68.6 , 116416.00 );  INSERT INTO country VALUES('TUR', 'Turkey' ,'Asia' , 774815.00 , 1923 , 66591000 , 71.0 , 210721.00 );  INSERT INTO country VALUES('TWN', 'Taiwan' ,'Asia' , 36188.00 , 1945 , 22256000 , 76.4 , 256254.00 );  INSERT INTO country VALUES('TZA', 'Tanzania' ,'Africa' , 883749.00 , 1961 , 33517000 , 52.3 , 8005.00 );  INSERT INTO country VALUES('UGA', 'Uganda' ,'Africa' , 241038.00 , 1962 , 21778000 , 42.9 , 6313.00 );  INSERT INTO country VALUES('UKR', 'Ukraine' ,'Europe' , 603700.00 , 1991 , 50456000 , 66.0 , 42168.00 );  INSERT INTO country VALUES('USA', 'United States' ,'North America' , 9363520.00 , 1776 , 278357000 , 77.1 ,8510700.00 );  INSERT INTO country VALUES('UZB', 'Uzbekistan' ,'Asia' , 447400.00 , 1991 , 24318000 , 63.7 , 14194.00 );  INSERT INTO country VALUES('VEN', 'Venezuela' ,'South America' , 912050.00 , 1811 , 24170000 , 73.1 , 95023.00 );  INSERT INTO country VALUES('VNM', 'Vietnam' ,'Asia' , 331689.00 , 1945 , 79832000 , 69.3 , 21929.00 );  INSERT INTO country VALUES('YEM', 'Yemen' ,'Asia' , 527968.00 , 1918 , 18112000 , 59.8 , 6041.00 );  INSERT INTO country VALUES('YUG', 'Yugoslavia' ,'Europe' , 102173.00 , 1918 , 10640000 , 72.4 , 17000.00 );  INSERT INTO country VALUES('ZAF', 'South Africa' ,'Africa' , 1221037.00 , 1910 , 40377000 , 51.1 , 116729.00 );  INSERT INTO country VALUES('ZWE', 'Zimbabwe' ,'Africa' , 390757.00 , 1980 , 11669000 , 37.8 , 5951.00 ); |

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| -- Top 20 Largest Countries by Area  SELECT Code, Name, Continent, SurfaceArea FROM country ORDER BY -SurfaceArea LIMIT 20;  -- Top 20 Largest Countries by Population  SELECT Code, Name, Continent, Population FROM country ORDER BY -Population LIMIT 20;  -- Top 20 Longest Lived Countries  SELECT Code, Name, Continent, LifeExpectancy FROM country ORDER BY -LifeExpectancy LIMIT 20;  -- Top 20 Richest Countries  SELECT Code, Name, Continent, GDP FROM country ORDER BY -GDP LIMIT 20;  -- Top 20 Country with the greatest wealth per person  SELECT Code, Name, Continent, (1000000 \* GDP / Population) AS 'GDP Per Capita (in $)' FROM country ORDER BY -(GDP/Population) LIMIT 20;  -- All countries where population desnity is greater than 50 persons per km^2  SELECT Code, Name, (Population / SurfaceArea) AS PopDensity from country WHERE Population / SurfaceArea >= 50.0;  -- All European countries which gained independence in the 19th century or later  SELECT Code, Name, Continent, Population, IndepYear 'Year of Independence' FROM country WHERE Continent='Europe' AND IndepYear >= 1800;  -- All Countries where life expectancy is less than 65 years  SELECT Code, Name, Continent, LifeExpectancy, GDP AS 'GDP (in $1,000,000)' FROM country WHERE LifeExpectancy <= 65.0;  -- All Asian countries and their development status by World Bank Standards  SELECT  Code, Name, Continent,  (1000000 \* GDP / Population) AS 'GDP Per Capita (in $)',  ( CASE  WHEN (1000000 \* GDP / Population) > 4035  THEN 'Developed'  WHEN (1000000 \* GDP / Population) > 1025  THEN 'Developing'  ELSE 'Undeveloped'  END) AS 'Development Status'  FROM country  WHERE Continent='Asia'  ORDER BY -(1000000 \* GDP / Population); |

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| mysql> SELECT Code, Name, Continent, LifeExpectancy FROM country ORDER BY -LifeExpectancy LIMIT 20;  +------+----------------+---------------+----------------+  | Code | Name | Continent | LifeExpectancy |  +------+----------------+---------------+----------------+  | JPN | Japan | Asia | 80.7 |  | AUS | Australia | Oceania | 79.8 |  | CAN | Canada | North America | 79.4 |  | ITA | Italy | Europe | 79.0 |  | FRA | France | Europe | 78.8 |  | ESP | Spain | Europe | 78.8 |  | GRC | Greece | Europe | 78.4 |  | NLD | Netherlands | Europe | 78.3 |  | BEL | Belgium | Europe | 77.8 |  | GBR | United Kingdom | Europe | 77.7 |  | DEU | Germany | Europe | 77.4 |  | USA | United States | North America | 77.1 |  | TWN | Taiwan | Asia | 76.4 |  | CUB | Cuba | North America | 76.2 |  | CHL | Chile | South America | 75.7 |  | ARG | Argentina | South America | 75.1 |  | CZE | Czech Republic | Europe | 74.5 |  | KOR | South Korea | Asia | 74.4 |  | POL | Poland | Europe | 73.2 |  | VEN | Venezuela | South America | 73.1 |  +------+----------------+---------------+----------------+  20 rows in set (0.26 sec)  mysql> SELECT Code, Name, Continent, Population FROM country ORDER BY -Population LIMIT 20;  +------+--------------------+---------------+------------+  | Code | Name | Continent | Population |  +------+--------------------+---------------+------------+  | CHN | China | Asia | 1277558000 |  | IND | India | Asia | 1013662000 |  | USA | United States | North America | 278357000 |  | IDN | Indonesia | Asia | 212107000 |  | BRA | Brazil | South America | 170115000 |  | PAK | Pakistan | Asia | 156483000 |  | RUS | Russian Federation | Europe | 146934000 |  | BGD | Bangladesh | Asia | 129155000 |  | JPN | Japan | Asia | 126714000 |  | NGA | Nigeria | Africa | 111506000 |  | MEX | Mexico | North America | 98881000 |  | DEU | Germany | Europe | 82164700 |  | VNM | Vietnam | Asia | 79832000 |  | PHL | Philippines | Asia | 75967000 |  | EGY | Egypt | Africa | 68470000 |  | IRN | Iran | Asia | 67702000 |  | TUR | Turkey | Asia | 66591000 |  | ETH | Ethiopia | Africa | 62565000 |  | THA | Thailand | Asia | 61399000 |  | GBR | United Kingdom | Europe | 59623400 |  +------+--------------------+---------------+------------+  20 rows in set (0.00 sec)  mysql> SELECT Code, Name, Continent, SurfaceArea FROM country ORDER BY -SurfaceArea LIMIT 20;  +------+--------------------------------------+---------------+-------------+  | Code | Name | Continent | SurfaceArea |  +------+--------------------------------------+---------------+-------------+  | RUS | Russian Federation | Europe | 17075400.00 |  | CAN | Canada | North America | 9970610.00 |  | CHN | China | Asia | 9572900.00 |  | USA | United States | North America | 9363520.00 |  | BRA | Brazil | South America | 8547403.00 |  | AUS | Australia | Oceania | 7741220.00 |  | IND | India | Asia | 3287263.00 |  | ARG | Argentina | South America | 2780400.00 |  | KAZ | Kazakstan | Asia | 2724900.00 |  | SDN | Sudan | Africa | 2505813.00 |  | DZA | Algeria | Africa | 2381741.00 |  | COD | The Democratic Republic of the Congo | Africa | 2344858.00 |  | SAU | Saudi Arabia | Asia | 2149690.00 |  | MEX | Mexico | North America | 1958201.00 |  | IDN | Indonesia | Asia | 1904569.00 |  | IRN | Iran | Asia | 1648195.00 |  | PER | Peru | South America | 1285216.00 |  | NER | Niger | Africa | 1267000.00 |  | AGO | Angola | Africa | 1246700.00 |  | MLI | Mali | Africa | 1240192.00 |  +------+--------------------------------------+---------------+-------------+  20 rows in set (0.00 sec)  mysql> SELECT Code, Name, Continent, GDP FROM country ORDER BY -GDP LIMIT 20;  +------+--------------------+---------------+------------+  | Code | Name | Continent | GDP |  +------+--------------------+---------------+------------+  | USA | United States | North America | 8510700.00 |  | JPN | Japan | Asia | 3787042.00 |  | DEU | Germany | Europe | 2133367.00 |  | FRA | France | Europe | 1424285.00 |  | GBR | United Kingdom | Europe | 1378330.00 |  | ITA | Italy | Europe | 1161755.00 |  | CHN | China | Asia | 982268.00 |  | BRA | Brazil | South America | 776739.00 |  | CAN | Canada | North America | 598862.00 |  | ESP | Spain | Europe | 553233.00 |  | IND | India | Asia | 447114.00 |  | MEX | Mexico | North America | 414972.00 |  | NLD | Netherlands | Europe | 371362.00 |  | AUS | Australia | Oceania | 351182.00 |  | ARG | Argentina | South America | 340238.00 |  | KOR | South Korea | Asia | 320749.00 |  | RUS | Russian Federation | Europe | 276608.00 |  | TWN | Taiwan | Asia | 256254.00 |  | BEL | Belgium | Europe | 249704.00 |  | TUR | Turkey | Asia | 210721.00 |  +------+--------------------+---------------+------------+  20 rows in set (0.00 sec)  mysql> SELECT Code, Name, Continent, (1000000 \* GDP / Population) AS 'GDP Per Capita (in $)' FROM country ORDER BY -(GDP/Population) LIMIT 20;  +------+----------------+---------------+-----------------------+  | Code | Name | Continent | GDP Per Capita (in $) |  +------+----------------+---------------+-----------------------+  | USA | United States | North America | 30574.765499 |  | JPN | Japan | Asia | 29886.531875 |  | DEU | Germany | Europe | 25964.520043 |  | BEL | Belgium | Europe | 24387.537845 |  | FRA | France | Europe | 24048.428301 |  | NLD | Netherlands | Europe | 23409.102370 |  | GBR | United Kingdom | Europe | 23117.266040 |  | ITA | Italy | Europe | 20141.383495 |  | CAN | Canada | North America | 19226.956047 |  | AUS | Australia | Oceania | 18594.832151 |  | ESP | Spain | Europe | 14026.601287 |  | TWN | Taiwan | Asia | 11513.928828 |  | GRC | Greece | Europe | 11447.699062 |  | ARG | Argentina | South America | 9187.675524 |  | KOR | South Korea | Asia | 6847.173597 |  | SAU | Saudi Arabia | Asia | 6369.926413 |  | CZE | Czech Republic | Europe | 5352.837587 |  | HUN | Hungary | Europe | 4805.938346 |  | CHL | Chile | South America | 4795.805667 |  | BRA | Brazil | South America | 4565.964201 |  +------+----------------+---------------+-----------------------+  20 rows in set (0.12 sec)  mysql> SELECT Code, Name, (Population / SurfaceArea) AS PopDensity from country WHERE Population / SurfaceArea >= 50.0;  +------+----------------+------------+  | Code | Name | PopDensity |  +------+----------------+------------+  | BEL | Belgium | 335.5069 |  | BGD | Bangladesh | 896.9222 |  | CHN | China | 133.4557 |  | CUB | Cuba | 101.0364 |  | CZE | Czech Republic | 130.3236 |  | DEU | Germany | 230.1390 |  | EGY | Egypt | 68.3709 |  | ESP | Spain | 77.9493 |  | ETH | Ethiopia | 56.6558 |  | FRA | France | 107.3902 |  | GBR | United Kingdom | 245.4648 |  | GHA | Ghana | 84.7346 |  | GRC | Greece | 80.1187 |  | GTM | Guatemala | 104.5560 |  | HUN | Hungary | 107.9566 |  | IDN | Indonesia | 111.3675 |  | IND | India | 308.3605 |  | IRQ | Iraq | 52.7358 |  | ITA | Italy | 191.4269 |  | JPN | Japan | 335.3739 |  | KEN | Kenya | 51.8293 |  | KHM | Cambodia | 61.6897 |  | KOR | South Korea | 471.1065 |  | LKA | Sri Lanka | 286.9532 |  | MAR | Morocco | 63.4890 |  | MEX | Mexico | 50.4958 |  | MMR | Myanmar | 67.4143 |  | MWI | Malawi | 92.2065 |  | MYS | Malaysia | 67.4555 |  | NGA | Nigeria | 120.7078 |  | NLD | Netherlands | 382.0257 |  | NPL | Nepal | 162.5889 |  | PAK | Pakistan | 196.5632 |  | PHL | Philippines | 253.2233 |  | POL | Poland | 119.5780 |  | PRK | North Korea | 199.4309 |  | ROM | Romania | 94.1961 |  | SYR | Syria | 87.0774 |  | THA | Thailand | 119.6593 |  | TUR | Turkey | 85.9444 |  | TWN | Taiwan | 615.0105 |  | UGA | Uganda | 90.3509 |  | UKR | Ukraine | 83.5779 |  | UZB | Uzbekistan | 54.3540 |  | VNM | Vietnam | 240.6833 |  | YUG | Yugoslavia | 104.1371 |  +------+----------------+------------+  46 rows in set (0.00 sec)  mysql> SELECT Code, Name, Continent, Population, IndepYear 'Year of Independence' FROM country WHERE Continent='Europe' AND IndepYear >= 1800;  +------+--------------------+-----------+------------+----------------------+  | Code | Name | Continent | Population | Year of Independence |  +------+--------------------+-----------+------------+----------------------+  | BEL | Belgium | Europe | 10239000 | 1830 |  | BLR | Belarus | Europe | 10236000 | 1991 |  | CZE | Czech Republic | Europe | 10278100 | 1993 |  | DEU | Germany | Europe | 82164700 | 1955 |  | GRC | Greece | Europe | 10545700 | 1830 |  | HUN | Hungary | Europe | 10043200 | 1918 |  | ITA | Italy | Europe | 57680000 | 1861 |  | POL | Poland | Europe | 38653600 | 1918 |  | ROM | Romania | Europe | 22455500 | 1878 |  | RUS | Russian Federation | Europe | 146934000 | 1991 |  | UKR | Ukraine | Europe | 50456000 | 1991 |  | YUG | Yugoslavia | Europe | 10640000 | 1918 |  +------+--------------------+-----------+------------+----------------------+  12 rows in set (0.00 sec)  mysql> SELECT Code, Name, Continent, LifeExpectancy, GDP AS 'GDP (in $1,000,000)' FROM country WHERE LifeExpectancy <= 65.0;  +------+--------------------------------------+---------------+----------------+---------------------+  | Code | Name | Continent | LifeExpectancy | GDP (in $1,000,000) |  +------+--------------------------------------+---------------+----------------+---------------------+  | AFG | Afghanistan | Asia | 45.9 | 5976.00 |  | AGO | Angola | Africa | 38.3 | 6648.00 |  | BFA | Burkina Faso | Africa | 46.7 | 2425.00 |  | BGD | Bangladesh | Asia | 60.2 | 32852.00 |  | BRA | Brazil | South America | 62.9 | 776739.00 |  | CIV | CÃ´te dÂ’Ivoire | Africa | 45.2 | 11345.00 |  | CMR | Cameroon | Africa | 54.8 | 9174.00 |  | COD | The Democratic Republic of the Congo | Africa | 48.8 | 6964.00 |  | EGY | Egypt | Africa | 63.3 | 82710.00 |  | ETH | Ethiopia | Africa | 45.2 | 6353.00 |  | GHA | Ghana | Africa | 57.4 | 7137.00 |  | IND | India | Asia | 62.5 | 447114.00 |  | KAZ | Kazakstan | Asia | 63.2 | 24375.00 |  | KEN | Kenya | Africa | 48.0 | 9217.00 |  | KHM | Cambodia | Asia | 56.5 | 5121.00 |  | MDG | Madagascar | Africa | 55.0 | 3750.00 |  | MLI | Mali | Africa | 46.7 | 2642.00 |  | MMR | Myanmar | Asia | 54.9 | 180375.00 |  | MOZ | Mozambique | Africa | 37.5 | 2891.00 |  | MWI | Malawi | Africa | 37.6 | 1687.00 |  | NER | Niger | Africa | 41.3 | 1706.00 |  | NGA | Nigeria | Africa | 51.6 | 65707.00 |  | NPL | Nepal | Asia | 57.8 | 4768.00 |  | PAK | Pakistan | Asia | 61.1 | 61289.00 |  | SDN | Sudan | Africa | 56.6 | 10162.00 |  | SOM | Somalia | Africa | 46.2 | 935.00 |  | TZA | Tanzania | Africa | 52.3 | 8005.00 |  | UGA | Uganda | Africa | 42.9 | 6313.00 |  | UZB | Uzbekistan | Asia | 63.7 | 14194.00 |  | YEM | Yemen | Asia | 59.8 | 6041.00 |  | ZAF | South Africa | Africa | 51.1 | 116729.00 |  | ZWE | Zimbabwe | Africa | 37.8 | 5951.00 |  +------+--------------------------------------+---------------+----------------+---------------------+  32 rows in set (0.00 sec)  mysql> SELECT  -> Code, Name, Continent,  -> (1000000 \* GDP / Population) AS 'GDP Per Capita (in $)',  -> ( CASE  -> WHEN (1000000 \* GDP / Population) > 4035  -> THEN 'Developed'  -> WHEN (1000000 \* GDP / Population) > 1025  -> THEN 'Developing'  -> ELSE 'Undeveloped'  -> END) AS 'Development Status'  -> FROM country  -> WHERE Continent='Asia'  -> ORDER BY -(1000000 \* GDP / Population);  +------+--------------+-----------+-----------------------+--------------------+  | Code | Name | Continent | GDP Per Capita (in $) | Development Status |  +------+--------------+-----------+-----------------------+--------------------+  | JPN | Japan | Asia | 29886.531875 | Developed |  | TWN | Taiwan | Asia | 11513.928828 | Developed |  | KOR | South Korea | Asia | 6847.173597 | Developed |  | SAU | Saudi Arabia | Asia | 6369.926413 | Developed |  | SYR | Syria | Asia | 4092.031008 | Developed |  | MMR | Myanmar | Asia | 3954.638136 | Developing |  | TUR | Turkey | Asia | 3164.406601 | Developing |  | MYS | Malaysia | Asia | 3111.535695 | Developing |  | IRN | Iran | Asia | 2891.288293 | Developing |  | THA | Thailand | Asia | 1896.056939 | Developing |  | KAZ | Kazakstan | Asia | 1502.496456 | Developing |  | PHL | Philippines | Asia | 857.043190 | Undeveloped |  | LKA | Sri Lanka | Asia | 834.227439 | Undeveloped |  | CHN | China | Asia | 768.863723 | Undeveloped |  | UZB | Uzbekistan | Asia | 583.682869 | Undeveloped |  | IRQ | Iraq | Asia | 497.512438 | Undeveloped |  | KHM | Cambodia | Asia | 458.542264 | Undeveloped |  | IND | India | Asia | 441.087858 | Undeveloped |  | IDN | Indonesia | Asia | 400.656273 | Undeveloped |  | PAK | Pakistan | Asia | 391.665548 | Undeveloped |  | YEM | Yemen | Asia | 333.535777 | Undeveloped |  | VNM | Vietnam | Asia | 274.689348 | Undeveloped |  | AFG | Afghanistan | Asia | 263.028169 | Undeveloped |  | BGD | Bangladesh | Asia | 254.361039 | Undeveloped |  | PRK | North Korea | Asia | 221.806232 | Undeveloped |  | NPL | Nepal | Asia | 199.247806 | Undeveloped |  +------+--------------+-----------+-----------------------+--------------------+  26 rows in set (0.02 sec) |

* **Countrylanguage (Practical 11-16)**
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| CREATE TABLE countrylanguage (  CountryCode char(3) NOT NULL DEFAULT'' ,  Language char(30) NOT NULL DEFAULT'' ,  IsOfficial enum('T','F') NOT NULL DEFAULT' F',  Percentage decimal(4,1) NOT NULL DEFAULT' 0.0',  PRIMARY KEY (CountryCode,Language)  );  -- Data Refined from world.countrylanguage by  -- CREATE TABLE countrylanguage AS (  -- SELECT \* FROM world.countrylanguage  -- WHERE CountryCode IN (  -- SELECT Code FROM world.country WHERE Population >= 10000000  -- ) AND (IsOfficial = 'T' OR Percentage >= 10.0)  -- );    INSERT INTO countrylanguage VALUES('AFG', 'Dari' , 'T', 32.1);  INSERT INTO countrylanguage VALUES('AFG', 'Pashto' , 'T', 52.4);  INSERT INTO countrylanguage VALUES('AGO', 'Kongo' , 'F', 13.2);  INSERT INTO countrylanguage VALUES('AGO', 'Mbundu' , 'F', 21.6);  INSERT INTO countrylanguage VALUES('AGO', 'Ovimbundu' , 'F', 37.2);  INSERT INTO countrylanguage VALUES('ARG', 'Spanish' , 'T', 96.8);  INSERT INTO countrylanguage VALUES('AUS', 'English' , 'T', 81.2);  INSERT INTO countrylanguage VALUES('BEL', 'Dutch' , 'T', 59.2);  INSERT INTO countrylanguage VALUES('BEL', 'French' , 'T', 32.6);  INSERT INTO countrylanguage VALUES('BEL', 'German' , 'T', 1.0);  INSERT INTO countrylanguage VALUES('BFA', 'Mossi' , 'F', 50.2);  INSERT INTO countrylanguage VALUES('BGD', 'Bengali' , 'T', 97.7);  INSERT INTO countrylanguage VALUES('BLR', 'Belorussian' , 'T', 65.6);  INSERT INTO countrylanguage VALUES('BLR', 'Russian' , 'T', 32.0);  INSERT INTO countrylanguage VALUES('BRA', 'Portuguese' , 'T', 97.5);  INSERT INTO countrylanguage VALUES('CAN', 'English' , 'T', 60.4);  INSERT INTO countrylanguage VALUES('CAN', 'French' , 'T', 23.4);  INSERT INTO countrylanguage VALUES('CHL', 'Spanish' , 'T', 89.7);  INSERT INTO countrylanguage VALUES('CHN', 'Chinese' , 'T', 92.0);  INSERT INTO countrylanguage VALUES('CIV', 'Akan' , 'F', 30.0);  INSERT INTO countrylanguage VALUES('CIV', 'Gur' , 'F', 11.7);  INSERT INTO countrylanguage VALUES('CIV', 'Kru' , 'F', 10.5);  INSERT INTO countrylanguage VALUES('CIV', 'Malinke' , 'F', 11.4);  INSERT INTO countrylanguage VALUES('CMR', 'Bamileke-bamum' , 'F', 18.6);  INSERT INTO countrylanguage VALUES('CMR', 'Duala' , 'F', 10.9);  INSERT INTO countrylanguage VALUES('CMR', 'Fang' , 'F', 19.7);  INSERT INTO countrylanguage VALUES('COD', 'Kongo' , 'F', 16.0);  INSERT INTO countrylanguage VALUES('COD', 'Luba' , 'F', 18.0);  INSERT INTO countrylanguage VALUES('COD', 'Mongo' , 'F', 13.5);  INSERT INTO countrylanguage VALUES('COD', 'Rwanda' , 'F', 10.3);  INSERT INTO countrylanguage VALUES('COL', 'Spanish' , 'T', 99.0);  INSERT INTO countrylanguage VALUES('CUB', 'Spanish' , 'T', 100.0);  INSERT INTO countrylanguage VALUES('CZE', 'Czech' , 'T', 81.2);  INSERT INTO countrylanguage VALUES('CZE', 'Moravian' , 'F', 12.9);  INSERT INTO countrylanguage VALUES('DEU', 'German' , 'T', 91.3);  INSERT INTO countrylanguage VALUES('DZA', 'Arabic' , 'T', 86.0);  INSERT INTO countrylanguage VALUES('DZA', 'Berberi' , 'F', 14.0);  INSERT INTO countrylanguage VALUES('ECU', 'Spanish' , 'T', 93.0);  INSERT INTO countrylanguage VALUES('EGY', 'Arabic' , 'T', 98.8);  INSERT INTO countrylanguage VALUES('ESP', 'Catalan' , 'F', 16.9);  INSERT INTO countrylanguage VALUES('ESP', 'Spanish' , 'T', 74.4);  INSERT INTO countrylanguage VALUES('ETH', 'Amhara' , 'F', 30.0);  INSERT INTO countrylanguage VALUES('ETH', 'Oromo' , 'F', 31.0);  INSERT INTO countrylanguage VALUES('FRA', 'French' , 'T', 93.6);  INSERT INTO countrylanguage VALUES('GBR', 'English' , 'T', 97.3);  INSERT INTO countrylanguage VALUES('GHA', 'Akan' , 'F', 52.4);  INSERT INTO countrylanguage VALUES('GHA', 'Ewe' , 'F', 11.9);  INSERT INTO countrylanguage VALUES('GHA', 'Mossi' , 'F', 15.8);  INSERT INTO countrylanguage VALUES('GRC', 'Greek' , 'T', 98.5);  INSERT INTO countrylanguage VALUES('GTM', 'QuichÃ©' , 'F', 10.1);  INSERT INTO countrylanguage VALUES('GTM', 'Spanish' , 'T', 64.7);  INSERT INTO countrylanguage VALUES('HUN', 'Hungarian' , 'T', 98.5);  INSERT INTO countrylanguage VALUES('IDN', 'Javanese' , 'F', 39.4);  INSERT INTO countrylanguage VALUES('IDN', 'Malay' , 'T', 12.1);  INSERT INTO countrylanguage VALUES('IDN', 'Sunda' , 'F', 15.8);  INSERT INTO countrylanguage VALUES('IND', 'Hindi' , 'T', 39.9);  INSERT INTO countrylanguage VALUES('IRN', 'Azerbaijani' , 'F', 16.8);  INSERT INTO countrylanguage VALUES('IRN', 'Persian' , 'T', 45.7);  INSERT INTO countrylanguage VALUES('IRQ', 'Arabic' , 'T', 77.2);  INSERT INTO countrylanguage VALUES('IRQ', 'Kurdish' , 'F', 19.0);  INSERT INTO countrylanguage VALUES('ITA', 'Italian' , 'T', 94.1);  INSERT INTO countrylanguage VALUES('JPN', 'Japanese' , 'T', 99.1);  INSERT INTO countrylanguage VALUES('KAZ', 'Kazakh' , 'T', 46.0);  INSERT INTO countrylanguage VALUES('KAZ', 'Russian' , 'F', 34.7);  INSERT INTO countrylanguage VALUES('KEN', 'Kalenjin' , 'F', 10.8);  INSERT INTO countrylanguage VALUES('KEN', 'Kamba' , 'F', 11.2);  INSERT INTO countrylanguage VALUES('KEN', 'Kikuyu' , 'F', 20.9);  INSERT INTO countrylanguage VALUES('KEN', 'Luhya' , 'F', 13.8);  INSERT INTO countrylanguage VALUES('KEN', 'Luo' , 'F', 12.8);  INSERT INTO countrylanguage VALUES('KHM', 'Khmer' , 'T', 88.6);  INSERT INTO countrylanguage VALUES('KOR', 'Korean' , 'T', 99.9);  INSERT INTO countrylanguage VALUES('LKA', 'Mixed Languages' , 'F', 19.6);  INSERT INTO countrylanguage VALUES('LKA', 'Singali' , 'T', 60.3);  INSERT INTO countrylanguage VALUES('LKA', 'Tamil' , 'T', 19.6);  INSERT INTO countrylanguage VALUES('MAR', 'Arabic' , 'T', 65.0);  INSERT INTO countrylanguage VALUES('MAR', 'Berberi' , 'F', 33.0);  INSERT INTO countrylanguage VALUES('MDG', 'French' , 'T', 0.0);  INSERT INTO countrylanguage VALUES('MDG', 'Malagasy' , 'T', 98.9);  INSERT INTO countrylanguage VALUES('MEX', 'Spanish' , 'T', 92.1);  INSERT INTO countrylanguage VALUES('MLI', 'Bambara' , 'F', 31.8);  INSERT INTO countrylanguage VALUES('MLI', 'Ful' , 'F', 13.9);  INSERT INTO countrylanguage VALUES('MLI', 'Senufo and Minianka', 'F', 12.0);  INSERT INTO countrylanguage VALUES('MMR', 'Burmese' , 'T', 69.0);  INSERT INTO countrylanguage VALUES('MOZ', 'Makua' , 'F', 27.8);  INSERT INTO countrylanguage VALUES('MOZ', 'Tsonga' , 'F', 12.4);  INSERT INTO countrylanguage VALUES('MWI', 'Chichewa' , 'T', 58.3);  INSERT INTO countrylanguage VALUES('MWI', 'Lomwe' , 'F', 18.4);  INSERT INTO countrylanguage VALUES('MWI', 'Yao' , 'F', 13.2);  INSERT INTO countrylanguage VALUES('MYS', 'Malay' , 'T', 58.4);  INSERT INTO countrylanguage VALUES('NER', 'Hausa' , 'F', 53.1);  INSERT INTO countrylanguage VALUES('NER', 'Songhai-zerma' , 'F', 21.2);  INSERT INTO countrylanguage VALUES('NER', 'Tamashek' , 'F', 10.4);  INSERT INTO countrylanguage VALUES('NGA', 'Ful' , 'F', 11.3);  INSERT INTO countrylanguage VALUES('NGA', 'Hausa' , 'F', 21.1);  INSERT INTO countrylanguage VALUES('NGA', 'Ibo' , 'F', 18.1);  INSERT INTO countrylanguage VALUES('NGA', 'Joruba' , 'F', 21.4);  INSERT INTO countrylanguage VALUES('NLD', 'Dutch' , 'T', 95.6);  INSERT INTO countrylanguage VALUES('NPL', 'Maithili' , 'F', 11.9);  INSERT INTO countrylanguage VALUES('NPL', 'Nepali' , 'T', 50.4);  INSERT INTO countrylanguage VALUES('PAK', 'Pashto' , 'F', 13.1);  INSERT INTO countrylanguage VALUES('PAK', 'Punjabi' , 'F', 48.2);  INSERT INTO countrylanguage VALUES('PAK', 'Sindhi' , 'F', 11.8);  INSERT INTO countrylanguage VALUES('PAK', 'Urdu' , 'T', 7.6);  INSERT INTO countrylanguage VALUES('PER', 'AimarÃ¡' , 'T', 2.3);  INSERT INTO countrylanguage VALUES('PER', 'KetÂšua' , 'T', 16.4);  INSERT INTO countrylanguage VALUES('PER', 'Spanish' , 'T', 79.8);  INSERT INTO countrylanguage VALUES('PHL', 'Cebuano' , 'F', 23.3);  INSERT INTO countrylanguage VALUES('PHL', 'Pilipino' , 'T', 29.3);  INSERT INTO countrylanguage VALUES('POL', 'Polish' , 'T', 97.6);  INSERT INTO countrylanguage VALUES('PRK', 'Korean' , 'T', 99.9);  INSERT INTO countrylanguage VALUES('ROM', 'Romani' , 'T', 0.7);  INSERT INTO countrylanguage VALUES('ROM', 'Romanian' , 'T', 90.7);  INSERT INTO countrylanguage VALUES('RUS', 'Russian' , 'T', 86.6);  INSERT INTO countrylanguage VALUES('SAU', 'Arabic' , 'T', 95.0);  INSERT INTO countrylanguage VALUES('SDN', 'Arabic' , 'T', 49.4);  INSERT INTO countrylanguage VALUES('SDN', 'Dinka' , 'F', 11.5);  INSERT INTO countrylanguage VALUES('SOM', 'Arabic' , 'T', 0.0);  INSERT INTO countrylanguage VALUES('SOM', 'Somali' , 'T', 98.3);  INSERT INTO countrylanguage VALUES('SYR', 'Arabic' , 'T', 90.0);  INSERT INTO countrylanguage VALUES('THA', 'Chinese' , 'F', 12.1);  INSERT INTO countrylanguage VALUES('THA', 'Lao' , 'F', 26.9);  INSERT INTO countrylanguage VALUES('THA', 'Thai' , 'T', 52.6);  INSERT INTO countrylanguage VALUES('TUR', 'Kurdish' , 'F', 10.6);  INSERT INTO countrylanguage VALUES('TUR', 'Turkish' , 'T', 87.6);  INSERT INTO countrylanguage VALUES('TWN', 'Hakka' , 'F', 11.0);  INSERT INTO countrylanguage VALUES('TWN', 'Mandarin Chinese' , 'T', 20.1);  INSERT INTO countrylanguage VALUES('TWN', 'Min' , 'F', 66.7);  INSERT INTO countrylanguage VALUES('TZA', 'Nyamwesi' , 'F', 21.1);  INSERT INTO countrylanguage VALUES('TZA', 'Swahili' , 'T', 8.8);  INSERT INTO countrylanguage VALUES('UGA', 'Ganda' , 'F', 18.1);  INSERT INTO countrylanguage VALUES('UGA', 'Nkole' , 'F', 10.7);  INSERT INTO countrylanguage VALUES('UKR', 'Russian' , 'F', 32.9);  INSERT INTO countrylanguage VALUES('UKR', 'Ukrainian' , 'T', 64.7);  INSERT INTO countrylanguage VALUES('USA', 'English' , 'T', 86.2);  INSERT INTO countrylanguage VALUES('UZB', 'Russian' , 'F', 10.9);  INSERT INTO countrylanguage VALUES('UZB', 'Uzbek' , 'T', 72.6);  INSERT INTO countrylanguage VALUES('VEN', 'Spanish' , 'T', 96.9);  INSERT INTO countrylanguage VALUES('VNM', 'Vietnamese' , 'T', 86.8);  INSERT INTO countrylanguage VALUES('YEM', 'Arabic' , 'T', 99.6);  INSERT INTO countrylanguage VALUES('YUG', 'Albaniana' , 'F', 16.5);  INSERT INTO countrylanguage VALUES('YUG', 'Serbo-Croatian' , 'T', 75.2);  INSERT INTO countrylanguage VALUES('ZAF', 'Afrikaans' , 'T', 14.3);  INSERT INTO countrylanguage VALUES('ZAF', 'English' , 'T', 8.5);  INSERT INTO countrylanguage VALUES('ZAF', 'Xhosa' , 'T', 17.7);  INSERT INTO countrylanguage VALUES('ZAF', 'Zulu' , 'T', 22.7);  INSERT INTO countrylanguage VALUES('ZWE', 'English' , 'T', 2.2);  INSERT INTO countrylanguage VALUES('ZWE', 'Ndebele' , 'F', 16.2);  INSERT INTO countrylanguage VALUES('ZWE', 'Shona' , 'F', 72.1); |

* queries.sql

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| -- The most spoken language in each country  SELECT cl.\* FROM countrylanguage cl  WHERE  Percentage = (  SELECT  MAX(Percentage)  FROM countrylanguage  WHERE  CountryCode = cl.CountryCode  );  -- The least spoken language in each country, except in countries with only one language in the database  SELECT cl.\* FROM countrylanguage cl  WHERE  Percentage = (  SELECT  MIN(Percentage)  FROM countrylanguage  WHERE  CountryCode = cl.CountryCode  )  AND  (SELECT  COUNT(\*)  FROM countrylanguage  WHERE  CountryCode = cl.CountryCode) != 1  );  -- All unofficial languages spoken more frequently than any official language in their country  SELECT \* FROM countrylanguage cl  WHERE  IsOfficial = 'F'  AND  Percentage >= (  SELECT  MAX(Percentage)  FROM countrylanguage  WHERE  CountryCode = cl.CountryCode  AND  IsOfficial = 'T'  );  -- All official languages spoken less frequently than any unofficial language in their country  SELECT \* FROM countrylanguage cl  WHERE  IsOfficial = 'T'  AND  Percentage <= (  SELECT  MIN(Percentage)  FROM countrylanguage  WHERE  CountryCode = cl.CountryCode  AND  IsOfficial = 'F'  );  -- The most spoken official and unofficial in all countries  SELECT \* FROM countrylanguage cl  WHERE  Language IN (  SELECT  Language  FROM countrylanguage cl\_sub  WHERE  CountryCode = cl.CountryCode  AND  Percentage = (  SELECT  MAX(Percentage)  FROM countrylanguage  WHERE  CountryCode = cl\_sub.CountryCode  AND  IsOfficial = cl\_sub.IsOfficial  )  )  ORDER BY  CountryCode;  -- JOIN WITH TABLE `country`  -- All Spoken Language order by no. of speakers  SELECT  cl.CountryCode, c.Name AS Country, cl.Language,  cl.IsOfficial, (cl.Percentage \* c.Population) AS 'No. of speakers',  cl.Percentage  FROM country c, countrylanguage cl  WHERE  c.Code = cl.CountryCode  ORDER BY  -(Percentage \* Population); |

* OUTPUT

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| mysql> SELECT \* FROM countrylanguage cl  -> WHERE  -> IsOfficial = 'T'  -> AND  -> Percentage <= (  -> SELECT  -> MIN(Percentage)  -> FROM countrylanguage  -> WHERE  -> CountryCode = cl.CountryCode  -> AND  -> IsOfficial = 'F'  -> );  +-------------+----------+------------+------------+  | CountryCode | Language | IsOfficial | Percentage |  +-------------+----------+------------+------------+  | IDN | Malay | T | 12.1 |  | LKA | Tamil | T | 19.6 |  | PAK | Urdu | T | 7.6 |  | TZA | Swahili | T | 8.8 |  | ZWE | English | T | 2.2 |  +-------------+----------+------------+------------+  5 rows in set (0.10 sec)  mysql> SELECT \* FROM countrylanguage cl  -> WHERE  -> IsOfficial = 'F'  -> AND  -> Percentage >= (  -> SELECT  -> MAX(Percentage)  -> FROM countrylanguage  -> WHERE  -> CountryCode = cl.CountryCode  -> AND  -> IsOfficial = 'T'  -> );  +-------------+----------+------------+------------+  | CountryCode | Language | IsOfficial | Percentage |  +-------------+----------+------------+------------+  | IDN | Javanese | F | 39.4 |  | IDN | Sunda | F | 15.8 |  | PAK | Pashto | F | 13.1 |  | PAK | Punjabi | F | 48.2 |  | PAK | Sindhi | F | 11.8 |  | TWN | Min | F | 66.7 |  | TZA | Nyamwesi | F | 21.1 |  | ZWE | Ndebele | F | 16.2 |  | ZWE | Shona | F | 72.1 |  +-------------+----------+------------+------------+  9 rows in set (0.01 sec)  mysql> SELECT cl.\* FROM countrylanguage cl  -> WHERE  -> Percentage = (  -> SELECT  -> MIN(Percentage)  -> FROM countrylanguage  -> WHERE  -> CountryCode = cl.CountryCode  -> )  -> AND  -> (SELECT  -> COUNT(\*)  -> FROM countrylanguage  -> WHERE  -> CountryCode = cl.CountryCode) != 1  -> );  ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 16  mysql> SELECT cl.\* FROM countrylanguage cl  -> WHERE  -> Percentage = (  -> SELECT  -> MAX(Percentage)  -> FROM countrylanguage  -> WHERE  -> CountryCode = cl.CountryCode  -> );  +-------------+----------------+------------+------------+  | CountryCode | Language | IsOfficial | Percentage |  +-------------+----------------+------------+------------+  | AFG | Pashto | T | 52.4 |  | AGO | Ovimbundu | F | 37.2 |  | ARG | Spanish | T | 96.8 |  | AUS | English | T | 81.2 |  | BEL | Dutch | T | 59.2 |  | BFA | Mossi | F | 50.2 |  | BGD | Bengali | T | 97.7 |  | BLR | Belorussian | T | 65.6 |  | BRA | Portuguese | T | 97.5 |  | CAN | English | T | 60.4 |  | CHL | Spanish | T | 89.7 |  | CHN | Chinese | T | 92.0 |  | CIV | Akan | F | 30.0 |  | CMR | Fang | F | 19.7 |  | COD | Luba | F | 18.0 |  | COL | Spanish | T | 99.0 |  | CUB | Spanish | T | 100.0 |  | CZE | Czech | T | 81.2 |  | DEU | German | T | 91.3 |  | DZA | Arabic | T | 86.0 |  | ECU | Spanish | T | 93.0 |  | EGY | Arabic | T | 98.8 |  | ESP | Spanish | T | 74.4 |  | ETH | Oromo | F | 31.0 |  | FRA | French | T | 93.6 |  | GBR | English | T | 97.3 |  | GHA | Akan | F | 52.4 |  | GRC | Greek | T | 98.5 |  | GTM | Spanish | T | 64.7 |  | HUN | Hungarian | T | 98.5 |  | IDN | Javanese | F | 39.4 |  | IND | Hindi | T | 39.9 |  | IRN | Persian | T | 45.7 |  | IRQ | Arabic | T | 77.2 |  | ITA | Italian | T | 94.1 |  | JPN | Japanese | T | 99.1 |  | KAZ | Kazakh | T | 46.0 |  | KEN | Kikuyu | F | 20.9 |  | KHM | Khmer | T | 88.6 |  | KOR | Korean | T | 99.9 |  | LKA | Singali | T | 60.3 |  | MAR | Arabic | T | 65.0 |  | MDG | Malagasy | T | 98.9 |  | MEX | Spanish | T | 92.1 |  | MLI | Bambara | F | 31.8 |  | MMR | Burmese | T | 69.0 |  | MOZ | Makua | F | 27.8 |  | MWI | Chichewa | T | 58.3 |  | MYS | Malay | T | 58.4 |  | NER | Hausa | F | 53.1 |  | NGA | Joruba | F | 21.4 |  | NLD | Dutch | T | 95.6 |  | NPL | Nepali | T | 50.4 |  | PAK | Punjabi | F | 48.2 |  | PER | Spanish | T | 79.8 |  | PHL | Pilipino | T | 29.3 |  | POL | Polish | T | 97.6 |  | PRK | Korean | T | 99.9 |  | ROM | Romanian | T | 90.7 |  | RUS | Russian | T | 86.6 |  | SAU | Arabic | T | 95.0 |  | SDN | Arabic | T | 49.4 |  | SOM | Somali | T | 98.3 |  | SYR | Arabic | T | 90.0 |  | THA | Thai | T | 52.6 |  | TUR | Turkish | T | 87.6 |  | TWN | Min | F | 66.7 |  | TZA | Nyamwesi | F | 21.1 |  | UGA | Ganda | F | 18.1 |  | UKR | Ukrainian | T | 64.7 |  | USA | English | T | 86.2 |  | UZB | Uzbek | T | 72.6 |  | VEN | Spanish | T | 96.9 |  | VNM | Vietnamese | T | 86.8 |  | YEM | Arabic | T | 99.6 |  | YUG | Serbo-Croatian | T | 75.2 |  | ZAF | Zulu | T | 22.7 |  | ZWE | Shona | F | 72.1 |  +-------------+----------------+------------+------------+  78 rows in set (0.02 sec)  mysql> SELECT \* FROM countrylanguage cl  -> WHERE  -> Language IN (  -> SELECT  -> Language  -> FROM countrylanguage cl\_sub  -> WHERE  -> CountryCode = cl.CountryCode  -> AND  -> Percentage = (  -> SELECT  -> MAX(Percentage)  -> FROM countrylanguage  -> WHERE  -> CountryCode = cl\_sub.CountryCode  -> AND  -> IsOfficial = cl\_sub.IsOfficial  -> )  -> )  -> ORDER BY  -> CountryCode;  +-------------+------------------+------------+------------+  | CountryCode | Language | IsOfficial | Percentage |  +-------------+------------------+------------+------------+  | AFG | Pashto | T | 52.4 |  | AGO | Ovimbundu | F | 37.2 |  | ARG | Spanish | T | 96.8 |  | AUS | English | T | 81.2 |  | BEL | Dutch | T | 59.2 |  | BFA | Mossi | F | 50.2 |  | BGD | Bengali | T | 97.7 |  | BLR | Belorussian | T | 65.6 |  | BRA | Portuguese | T | 97.5 |  | CAN | English | T | 60.4 |  | CHL | Spanish | T | 89.7 |  | CHN | Chinese | T | 92.0 |  | CIV | Akan | F | 30.0 |  | CMR | Fang | F | 19.7 |  | COD | Luba | F | 18.0 |  | COL | Spanish | T | 99.0 |  | CUB | Spanish | T | 100.0 |  | CZE | Czech | T | 81.2 |  | CZE | Moravian | F | 12.9 |  | DEU | German | T | 91.3 |  | DZA | Arabic | T | 86.0 |  | DZA | Berberi | F | 14.0 |  | ECU | Spanish | T | 93.0 |  | EGY | Arabic | T | 98.8 |  | ESP | Catalan | F | 16.9 |  | ESP | Spanish | T | 74.4 |  | ETH | Oromo | F | 31.0 |  | FRA | French | T | 93.6 |  | GBR | English | T | 97.3 |  | GHA | Akan | F | 52.4 |  | GRC | Greek | T | 98.5 |  | GTM | QuichÃ© | F | 10.1 |  | GTM | Spanish | T | 64.7 |  | HUN | Hungarian | T | 98.5 |  | IDN | Javanese | F | 39.4 |  | IDN | Malay | T | 12.1 |  | IND | Hindi | T | 39.9 |  | IRN | Azerbaijani | F | 16.8 |  | IRN | Persian | T | 45.7 |  | IRQ | Arabic | T | 77.2 |  | IRQ | Kurdish | F | 19.0 |  | ITA | Italian | T | 94.1 |  | JPN | Japanese | T | 99.1 |  | KAZ | Kazakh | T | 46.0 |  | KAZ | Russian | F | 34.7 |  | KEN | Kikuyu | F | 20.9 |  | KHM | Khmer | T | 88.6 |  | KOR | Korean | T | 99.9 |  | LKA | Mixed Languages | F | 19.6 |  | LKA | Singali | T | 60.3 |  | MAR | Arabic | T | 65.0 |  | MAR | Berberi | F | 33.0 |  | MDG | Malagasy | T | 98.9 |  | MEX | Spanish | T | 92.1 |  | MLI | Bambara | F | 31.8 |  | MMR | Burmese | T | 69.0 |  | MOZ | Makua | F | 27.8 |  | MWI | Chichewa | T | 58.3 |  | MWI | Lomwe | F | 18.4 |  | MYS | Malay | T | 58.4 |  | NER | Hausa | F | 53.1 |  | NGA | Joruba | F | 21.4 |  | NLD | Dutch | T | 95.6 |  | NPL | Maithili | F | 11.9 |  | NPL | Nepali | T | 50.4 |  | PAK | Punjabi | F | 48.2 |  | PAK | Urdu | T | 7.6 |  | PER | Spanish | T | 79.8 |  | PHL | Cebuano | F | 23.3 |  | PHL | Pilipino | T | 29.3 |  | POL | Polish | T | 97.6 |  | PRK | Korean | T | 99.9 |  | ROM | Romanian | T | 90.7 |  | RUS | Russian | T | 86.6 |  | SAU | Arabic | T | 95.0 |  | SDN | Arabic | T | 49.4 |  | SDN | Dinka | F | 11.5 |  | SOM | Somali | T | 98.3 |  | SYR | Arabic | T | 90.0 |  | THA | Lao | F | 26.9 |  | THA | Thai | T | 52.6 |  | TUR | Kurdish | F | 10.6 |  | TUR | Turkish | T | 87.6 |  | TWN | Mandarin Chinese | T | 20.1 |  | TWN | Min | F | 66.7 |  | TZA | Nyamwesi | F | 21.1 |  | TZA | Swahili | T | 8.8 |  | UGA | Ganda | F | 18.1 |  | UKR | Russian | F | 32.9 |  | UKR | Ukrainian | T | 64.7 |  | USA | English | T | 86.2 |  | UZB | Russian | F | 10.9 |  | UZB | Uzbek | T | 72.6 |  | VEN | Spanish | T | 96.9 |  | VNM | Vietnamese | T | 86.8 |  | YEM | Arabic | T | 99.6 |  | YUG | Albaniana | F | 16.5 |  | YUG | Serbo-Croatian | T | 75.2 |  | ZAF | Zulu | T | 22.7 |  | ZWE | English | T | 2.2 |  | ZWE | Shona | F | 72.1 |  +-------------+------------------+------------+------------+  101 rows in set (0.11 sec)  mysql> SELECT  -> cl.CountryCode, c.Name AS Country, cl.Language,  -> cl.IsOfficial, (cl.Percentage \* c.Population) AS 'No. of speakers',  -> cl.Percentage  -> FROM country c, countrylanguage cl  -> WHERE  -> c.Code = cl.CountryCode  -> ORDER BY  -> -(Percentage \* Population);  +-------------+--------------------------------------+---------------------+------------+-----------------+------------+  | CountryCode | Country | Language | IsOfficial | No. of speakers | Percentage |  +-------------+--------------------------------------+---------------------+------------+-----------------+------------+  | CHN | China | Chinese | T | 117535336000.0 | 92.0 |  | IND | India | Hindi | T | 40445115346.7 | 39.9 |  | USA | United States | English | T | 23994372550.5 | 86.2 |  | BRA | Brazil | Portuguese | T | 16586212500.0 | 97.5 |  | RUS | Russian Federation | Russian | T | 12724484175.8 | 86.6 |  | BGD | Bangladesh | Bengali | T | 12618443105.9 | 97.7 |  | JPN | Japan | Japanese | T | 12557357206.6 | 99.1 |  | MEX | Mexico | Spanish | T | 9106939949.1 | 92.1 |  | IDN | Indonesia | Javanese | F | 8357016123.6 | 39.4 |  | PAK | Pakistan | Punjabi | F | 7542480719.4 | 48.2 |  | DEU | Germany | German | T | 7501637360.7 | 91.3 |  | VNM | Vietnam | Vietnamese | T | 6929417843.6 | 86.8 |  | EGY | Egypt | Arabic | T | 6764836209.0 | 98.8 |  | TUR | Turkey | Turkish | T | 5833371498.4 | 87.6 |  | GBR | United Kingdom | English | T | 5801357002.0 | 97.3 |  | FRA | France | French | T | 5543525429.6 | 93.6 |  | ITA | Italy | Italian | T | 5427687912.0 | 94.1 |  | KOR | South Korea | Korean | T | 4679715671.5 | 99.9 |  | COL | Colombia | Spanish | T | 4189779000.0 | 99.0 |  | POL | Poland | Polish | T | 3772591301.0 | 97.6 |  | ARG | Argentina | Spanish | T | 3584697713.0 | 96.8 |  | IDN | Indonesia | Sunda | F | 3351290640.5 | 15.8 |  | UKR | Ukraine | Ukrainian | T | 3264503046.0 | 64.7 |  | THA | Thailand | Thai | T | 3229587306.3 | 52.6 |  | MMR | Myanmar | Burmese | T | 3147159000.0 | 69.0 |  | IRN | Iran | Persian | T | 3093981451.7 | 45.7 |  | ESP | Spain | Spanish | T | 2934462540.2 | 74.4 |  | DZA | Algeria | Arabic | T | 2706506000.0 | 86.0 |  | IDN | Indonesia | Malay | T | 2566494780.9 | 12.1 |  | PRK | North Korea | Korean | T | 2401496136.7 | 99.9 |  | NGA | Nigeria | Joruba | F | 2386228357.5 | 21.4 |  | NGA | Nigeria | Hausa | F | 2352776642.5 | 21.1 |  | VEN | Venezuela | Spanish | T | 2342073036.9 | 96.9 |  | PHL | Philippines | Pilipino | T | 2225833042.0 | 29.3 |  | SAU | Saudi Arabia | Arabic | T | 2052665000.0 | 95.0 |  | PAK | Pakistan | Pashto | F | 2049927359.7 | 13.1 |  | PER | Peru | Spanish | T | 2047827678.3 | 79.8 |  | ROM | Romania | Romanian | T | 2036713781.5 | 90.7 |  | NGA | Nigeria | Ibo | F | 2018258642.5 | 18.1 |  | ETH | Ethiopia | Oromo | F | 1939515000.0 | 31.0 |  | CAN | Canada | English | T | 1881278847.5 | 60.4 |  | ETH | Ethiopia | Amhara | F | 1876950000.0 | 30.0 |  | PAK | Pakistan | Sindhi | F | 1846499429.8 | 11.8 |  | MAR | Morocco | Arabic | T | 1842815000.0 | 65.0 |  | YEM | Yemen | Arabic | T | 1803955172.4 | 99.6 |  | IRQ | Iraq | Arabic | T | 1784477929.5 | 77.2 |  | PHL | Philippines | Cebuano | F | 1770031042.0 | 23.3 |  | UZB | Uzbekistan | Uzbek | T | 1765486762.9 | 72.6 |  | UKR | Ukraine | Russian | F | 1660002477.0 | 32.9 |  | THA | Thailand | Lao | F | 1651633076.6 | 26.9 |  | MDG | Madagascar | Malagasy | T | 1576663824.3 | 98.9 |  | AUS | Australia | English | T | 1533543142.4 | 81.2 |  | NLD | Netherlands | Dutch | T | 1516598375.8 | 95.6 |  | TWN | Taiwan | Min | F | 1484475132.1 | 66.7 |  | SDN | Sudan | Arabic | T | 1456806045.0 | 49.4 |  | SYR | Syria | Arabic | T | 1451250000.0 | 90.0 |  | CHL | Chile | Spanish | T | 1364426653.6 | 89.7 |  | MYS | Malaysia | Malay | T | 1299049633.9 | 58.4 |  | NGA | Nigeria | Ful | F | 1260017821.3 | 11.3 |  | NPL | Nepal | Nepali | T | 1206072036.5 | 50.4 |  | AFG | Afghanistan | Pashto | T | 1190528034.7 | 52.4 |  | PAK | Pakistan | Urdu | T | 1189270785.1 | 7.6 |  | ECU | Ecuador | Spanish | T | 1176078000.0 | 93.0 |  | IRN | Iran | Azerbaijani | F | 1137393548.3 | 16.8 |  | LKA | Sri Lanka | Singali | T | 1135268085.6 | 60.3 |  | CUB | Cuba | Spanish | T | 1120100000.0 | 100.0 |  | GHA | Ghana | Akan | F | 1059108830.8 | 52.4 |  | GRC | Greece | Greek | T | 1038751450.0 | 98.5 |  | SOM | Somalia | Somali | T | 992535130.8 | 98.3 |  | KHM | Cambodia | Khmer | T | 989484783.0 | 88.6 |  | HUN | Hungary | Hungarian | T | 989255200.0 | 98.5 |  | MAR | Morocco | Berberi | F | 935583000.0 | 33.0 |  | COD | The Democratic Republic of the Congo | Luba | F | 929772000.0 | 18.0 |  | ZAF | South Africa | Zulu | T | 916557930.8 | 22.7 |  | ZWE | Zimbabwe | Shona | F | 841334882.2 | 72.1 |  | CZE | Czech Republic | Czech | T | 834581688.6 | 81.2 |  | COD | The Democratic Republic of the Congo | Kongo | F | 826464000.0 | 16.0 |  | YUG | Yugoslavia | Serbo-Croatian | T | 800127967.5 | 75.2 |  | KAZ | Kazakstan | Kazakh | T | 746258000.0 | 46.0 |  | THA | Thailand | Chinese | F | 742927923.4 | 12.1 |  | GTM | Guatemala | Spanish | T | 736609465.3 | 64.7 |  | AFG | Afghanistan | Dari | T | 729311965.3 | 32.1 |  | CAN | Canada | French | T | 728839788.1 | 23.4 |  | ZAF | South Africa | Xhosa | T | 714672930.8 | 17.7 |  | TZA | Tanzania | Nyamwesi | F | 707208712.8 | 21.1 |  | TUR | Turkey | Kurdish | F | 705864625.4 | 10.6 |  | COD | The Democratic Republic of the Congo | Mongo | F | 697329000.0 | 13.5 |  | BLR | Belarus | Belorussian | T | 671481584.4 | 65.6 |  | ESP | Spain | Catalan | F | 666564715.0 | 16.9 |  | MWI | Malawi | Chichewa | T | 636927491.7 | 58.3 |  | KEN | Kenya | Kikuyu | F | 628671988.5 | 20.9 |  | BEL | Belgium | Dutch | T | 606148807.8 | 59.2 |  | BFA | Burkina Faso | Mossi | F | 599237409.1 | 50.2 |  | ZAF | South Africa | Afrikaans | T | 577391107.7 | 14.3 |  | NER | Niger | Hausa | F | 569762983.6 | 53.1 |  | KAZ | Kazakstan | Russian | F | 562938112.4 | 34.7 |  | MOZ | Mozambique | Makua | F | 547103985.0 | 27.8 |  | COD | The Democratic Republic of the Congo | Rwanda | F | 532036209.9 | 10.3 |  | AGO | Angola | Ovimbundu | F | 479061609.8 | 37.2 |  | TWN | Taiwan | Mandarin Chinese | T | 447345608.5 | 20.1 |  | CIV | CÃ´te dÂ’Ivoire | Akan | F | 443580000.0 | 30.0 |  | DZA | Algeria | Berberi | F | 440594000.0 | 14.0 |  | IRQ | Iraq | Kurdish | F | 439185000.0 | 19.0 |  | PER | Peru | KetÂšua | T | 420856790.2 | 16.4 |  | KEN | Kenya | Luhya | F | 415104005.7 | 13.8 |  | UGA | Uganda | Ganda | F | 394181808.3 | 18.1 |  | KEN | Kenya | Luo | F | 385024005.7 | 12.8 |  | LKA | Sri Lanka | Mixed Languages | F | 369009207.2 | 19.6 |  | LKA | Sri Lanka | Tamil | T | 369009207.2 | 19.6 |  | MLI | Mali | Bambara | F | 357241191.4 | 31.8 |  | ZAF | South Africa | English | T | 343204500.0 | 8.5 |  | SDN | Sudan | Dinka | F | 339135000.0 | 11.5 |  | KEN | Kenya | Kamba | F | 336895994.3 | 11.2 |  | BEL | Belgium | French | T | 333791384.4 | 32.6 |  | BLR | Belarus | Russian | T | 327552000.0 | 32.0 |  | KEN | Kenya | Kalenjin | F | 324864005.7 | 10.8 |  | GHA | Ghana | Mossi | F | 319349603.9 | 15.8 |  | CMR | Cameroon | Fang | F | 297174511.5 | 19.7 |  | TZA | Tanzania | Swahili | T | 294949606.4 | 8.8 |  | NPL | Nepal | Maithili | F | 284766990.9 | 11.9 |  | CMR | Cameroon | Bamileke-bamum | F | 280581005.8 | 18.6 |  | AGO | Angola | Mbundu | F | 278164804.9 | 21.6 |  | UZB | Uzbekistan | Russian | F | 265066190.7 | 10.9 |  | TWN | Taiwan | Hakka | F | 244816000.0 | 11.0 |  | MOZ | Mozambique | Tsonga | F | 244031992.5 | 12.4 |  | GHA | Ghana | Ewe | F | 240522792.3 | 11.9 |  | UGA | Uganda | Nkole | F | 233024595.8 | 10.7 |  | NER | Niger | Songhai-zerma | F | 227476008.2 | 21.2 |  | MWI | Malawi | Lomwe | F | 201019995.8 | 18.4 |  | ZWE | Zimbabwe | Ndebele | F | 189037808.9 | 16.2 |  | YUG | Yugoslavia | Albaniana | F | 175560000.0 | 16.5 |  | CIV | CÃ´te dÂ’Ivoire | Gur | F | 172996197.2 | 11.7 |  | AGO | Angola | Kongo | F | 169989597.5 | 13.2 |  | CIV | CÃ´te dÂ’Ivoire | Malinke | F | 168560394.4 | 11.4 |  | CMR | Cameroon | Duala | F | 164426494.2 | 10.9 |  | MLI | Mali | Ful | F | 156152595.7 | 13.9 |  | CIV | CÃ´te dÂ’Ivoire | Kru | F | 155253000.0 | 10.5 |  | MWI | Malawi | Yao | F | 144209997.9 | 13.2 |  | MLI | Mali | Senufo and Minianka | F | 134808000.0 | 12.0 |  | CZE | Czech Republic | Moravian | F | 132587486.1 | 12.9 |  | GTM | Guatemala | QuichÃ© | F | 114988504.3 | 10.1 |  | NER | Niger | Tamashek | F | 111591995.9 | 10.4 |  | PER | Peru | AimarÃ¡ | T | 59022598.8 | 2.3 |  | ZWE | Zimbabwe | English | T | 25671800.6 | 2.2 |  | ROM | Romania | Romani | T | 15718849.7 | 0.7 |  | BEL | Belgium | German | T | 10239000.0 | 1.0 |  | MDG | Madagascar | French | T | 0.0 | 0.0 |  | SOM | Somalia | Arabic | T | 0.0 | 0.0 |  +-------------+--------------------------------------+---------------------+------------+-----------------+------------+  148 rows in set (0.14 sec) |

* **City (Practicals 17-23)**
  + create\_table.sql

|  |
| --- |
| CREATE TABLE city (  ID int NOT NULL,  Name char(35) NOT NULL DEFAULT'' ,  Country char(52) NOT NULL DEFAULT'' ,  Population int NOT NULL DEFAULT' 0',  PRIMARY KEY (ID),  )  -- Data refined from world.city by  -- CREATE TABLE city AS (  -- SELECT  -- ID, Name,  -- (SELECT Name FROM world.country WHERE Code = wc.CountryCode ) AS Country,  -- Population  -- FROM world.city wc  -- WHERE  -- Population >= 1000000  -- AND  -- CountryCode IN (  -- SELECT Code FROM world.country WHERE Population >= 10000000)  -- );    INSERT INTO city VALUES( 1, 'Kabul' , 'Afghanistan' , 1780000);  INSERT INTO city VALUES( 35, 'Alger' , 'Algeria' , 2168000);  INSERT INTO city VALUES( 56, 'Luanda' , 'Angola' , 2022000);  INSERT INTO city VALUES( 69, 'Buenos Aires' , 'Argentina' , 2982146);  INSERT INTO city VALUES( 70, 'La Matanza' , 'Argentina' , 1266461);  INSERT INTO city VALUES( 71, 'CÃ³rdoba' , 'Argentina' , 1157507);  INSERT INTO city VALUES( 130, 'Sydney' , 'Australia' , 3276207);  INSERT INTO city VALUES( 131, 'Melbourne' , 'Australia' , 2865329);  INSERT INTO city VALUES( 132, 'Brisbane' , 'Australia' , 1291117);  INSERT INTO city VALUES( 133, 'Perth' , 'Australia' , 1096829);  INSERT INTO city VALUES( 150, 'Dhaka' , 'Bangladesh' , 3612850);  INSERT INTO city VALUES( 151, 'Chittagong' , 'Bangladesh' , 1392860);  INSERT INTO city VALUES(3520, 'Minsk' , 'Belarus' , 1674000);  INSERT INTO city VALUES( 206, 'SÃ£o Paulo' , 'Brazil' , 9968485);  INSERT INTO city VALUES( 207, 'Rio de Janeiro' , 'Brazil' , 5598953);  INSERT INTO city VALUES( 208, 'Salvador' , 'Brazil' , 2302832);  INSERT INTO city VALUES( 209, 'Belo Horizonte' , 'Brazil' , 2139125);  INSERT INTO city VALUES( 210, 'Fortaleza' , 'Brazil' , 2097757);  INSERT INTO city VALUES( 211, 'BrasÃ­lia' , 'Brazil' , 1969868);  INSERT INTO city VALUES( 212, 'Curitiba' , 'Brazil' , 1584232);  INSERT INTO city VALUES( 213, 'Recife' , 'Brazil' , 1378087);  INSERT INTO city VALUES( 214, 'Porto Alegre' , 'Brazil' , 1314032);  INSERT INTO city VALUES( 215, 'Manaus' , 'Brazil' , 1255049);  INSERT INTO city VALUES( 216, 'BelÃ©m' , 'Brazil' , 1186926);  INSERT INTO city VALUES( 217, 'Guarulhos' , 'Brazil' , 1095874);  INSERT INTO city VALUES( 218, 'GoiÃ¢nia' , 'Brazil' , 1056330);  INSERT INTO city VALUES(1803, 'Douala' , 'Cameroon' , 1448300);  INSERT INTO city VALUES(1804, 'YaoundÃ©' , 'Cameroon' , 1372800);  INSERT INTO city VALUES(1810, 'MontrÃ©al' , 'Canada' , 1016376);  INSERT INTO city VALUES(2812, 'Abidjan' , 'CÃ´te dÂ’Ivoire' , 2500000);  INSERT INTO city VALUES( 554, 'Santiago de Chile' , 'Chile' , 4703954);  INSERT INTO city VALUES(1890, 'Shanghai' , 'China' , 9696300);  INSERT INTO city VALUES(1891, 'Peking' , 'China' , 7472000);  INSERT INTO city VALUES(1892, 'Chongqing' , 'China' , 6351600);  INSERT INTO city VALUES(1893, 'Tianjin' , 'China' , 5286800);  INSERT INTO city VALUES(1894, 'Wuhan' , 'China' , 4344600);  INSERT INTO city VALUES(1895, 'Harbin' , 'China' , 4289800);  INSERT INTO city VALUES(1896, 'Shenyang' , 'China' , 4265200);  INSERT INTO city VALUES(1897, 'Kanton [Guangzhou]' , 'China' , 4256300);  INSERT INTO city VALUES(1898, 'Chengdu' , 'China' , 3361500);  INSERT INTO city VALUES(1899, 'Nanking [Nanjing]' , 'China' , 2870300);  INSERT INTO city VALUES(1900, 'Changchun' , 'China' , 2812000);  INSERT INTO city VALUES(1901, 'XiÂ´an' , 'China' , 2761400);  INSERT INTO city VALUES(1902, 'Dalian' , 'China' , 2697000);  INSERT INTO city VALUES(1903, 'Qingdao' , 'China' , 2596000);  INSERT INTO city VALUES(1904, 'Jinan' , 'China' , 2278100);  INSERT INTO city VALUES(1905, 'Hangzhou' , 'China' , 2190500);  INSERT INTO city VALUES(1906, 'Zhengzhou' , 'China' , 2107200);  INSERT INTO city VALUES(1907, 'Shijiazhuang' , 'China' , 2041500);  INSERT INTO city VALUES(1908, 'Taiyuan' , 'China' , 1968400);  INSERT INTO city VALUES(1909, 'Kunming' , 'China' , 1829500);  INSERT INTO city VALUES(1910, 'Changsha' , 'China' , 1809800);  INSERT INTO city VALUES(1911, 'Nanchang' , 'China' , 1691600);  INSERT INTO city VALUES(1912, 'Fuzhou' , 'China' , 1593800);  INSERT INTO city VALUES(1913, 'Lanzhou' , 'China' , 1565800);  INSERT INTO city VALUES(1914, 'Guiyang' , 'China' , 1465200);  INSERT INTO city VALUES(1915, 'Ningbo' , 'China' , 1371200);  INSERT INTO city VALUES(1916, 'Hefei' , 'China' , 1369100);  INSERT INTO city VALUES(1917, 'UrumtÂši [ÃœrÃ¼mqi]', 'China' , 1310100);  INSERT INTO city VALUES(1918, 'Anshan' , 'China' , 1200000);  INSERT INTO city VALUES(1919, 'Fushun' , 'China' , 1200000);  INSERT INTO city VALUES(1920, 'Nanning' , 'China' , 1161800);  INSERT INTO city VALUES(1921, 'Zibo' , 'China' , 1140000);  INSERT INTO city VALUES(1922, 'Qiqihar' , 'China' , 1070000);  INSERT INTO city VALUES(1923, 'Jilin' , 'China' , 1040000);  INSERT INTO city VALUES(1924, 'Tangshan' , 'China' , 1040000);  INSERT INTO city VALUES(2257, 'SantafÃ© de BogotÃ¡', 'Colombia' , 6260862);  INSERT INTO city VALUES(2258, 'Cali' , 'Colombia' , 2077386);  INSERT INTO city VALUES(2259, 'MedellÃ­n' , 'Colombia' , 1861265);  INSERT INTO city VALUES(2260, 'Barranquilla' , 'Colombia' , 1223260);  INSERT INTO city VALUES(2298, 'Kinshasa' , 'The Democratic Republic of the Congo', 5064000 );  INSERT INTO city VALUES(2413, 'La Habana' , 'Cuba' , 2256000);  INSERT INTO city VALUES(3339, 'Praha' , 'Czech Republic' , 1181126);  INSERT INTO city VALUES( 593, 'Guayaquil' , 'Ecuador' , 2070040);  INSERT INTO city VALUES( 594, 'Quito' , 'Ecuador' , 1573458);  INSERT INTO city VALUES( 608, 'Cairo' , 'Egypt' , 6789479);  INSERT INTO city VALUES( 609, 'Alexandria' , 'Egypt' , 3328196);  INSERT INTO city VALUES( 610, 'Giza' , 'Egypt' , 2221868);  INSERT INTO city VALUES( 756, 'Addis Abeba' , 'Ethiopia' , 2495000);  INSERT INTO city VALUES(2974, 'Paris' , 'France' , 2125246);  INSERT INTO city VALUES(3068, 'Berlin' , 'Germany' , 3386667);  INSERT INTO city VALUES(3069, 'Hamburg' , 'Germany' , 1704735);  INSERT INTO city VALUES(3070, 'Munich [MÃ¼nchen]' , 'Germany' , 1194560);  INSERT INTO city VALUES( 910, 'Accra' , 'Ghana' , 1070000);  INSERT INTO city VALUES(3483, 'Budapest' , 'Hungary' , 1811552);  INSERT INTO city VALUES(1024, 'Mumbai (Bombay)' , 'India' , 10500000);  INSERT INTO city VALUES(1025, 'Delhi' , 'India' , 7206704);  INSERT INTO city VALUES(1026, 'Calcutta [Kolkata]' , 'India' , 4399819);  INSERT INTO city VALUES(1027, 'Chennai (Madras)' , 'India' , 3841396);  INSERT INTO city VALUES(1028, 'Hyderabad' , 'India' , 2964638);  INSERT INTO city VALUES(1029, 'Ahmedabad' , 'India' , 2876710);  INSERT INTO city VALUES(1030, 'Bangalore' , 'India' , 2660088);  INSERT INTO city VALUES(1031, 'Kanpur' , 'India' , 1874409);  INSERT INTO city VALUES(1032, 'Nagpur' , 'India' , 1624752);  INSERT INTO city VALUES(1033, 'Lucknow' , 'India' , 1619115);  INSERT INTO city VALUES(1034, 'Pune' , 'India' , 1566651);  INSERT INTO city VALUES(1035, 'Surat' , 'India' , 1498817);  INSERT INTO city VALUES(1036, 'Jaipur' , 'India' , 1458483);  INSERT INTO city VALUES(1037, 'Indore' , 'India' , 1091674);  INSERT INTO city VALUES(1038, 'Bhopal' , 'India' , 1062771);  INSERT INTO city VALUES(1039, 'Ludhiana' , 'India' , 1042740);  INSERT INTO city VALUES(1040, 'Vadodara (Baroda)' , 'India' , 1031346);  INSERT INTO city VALUES(1041, 'Kalyan' , 'India' , 1014557);  INSERT INTO city VALUES( 939, 'Jakarta' , 'Indonesia' , 9604900);  INSERT INTO city VALUES( 940, 'Surabaya' , 'Indonesia' , 2663820);  INSERT INTO city VALUES( 941, 'Bandung' , 'Indonesia' , 2429000);  INSERT INTO city VALUES( 942, 'Medan' , 'Indonesia' , 1843919);  INSERT INTO city VALUES( 943, 'Palembang' , 'Indonesia' , 1222764);  INSERT INTO city VALUES( 944, 'Tangerang' , 'Indonesia' , 1198300);  INSERT INTO city VALUES( 945, 'Semarang' , 'Indonesia' , 1104405);  INSERT INTO city VALUES( 946, 'Ujung Pandang' , 'Indonesia' , 1060257);  INSERT INTO city VALUES(1380, 'Teheran' , 'Iran' , 6758845);  INSERT INTO city VALUES(1381, 'Mashhad' , 'Iran' , 1887405);  INSERT INTO city VALUES(1382, 'Esfahan' , 'Iran' , 1266072);  INSERT INTO city VALUES(1383, 'Tabriz' , 'Iran' , 1191043);  INSERT INTO city VALUES(1384, 'Shiraz' , 'Iran' , 1053025);  INSERT INTO city VALUES(1365, 'Baghdad' , 'Iraq' , 4336000);  INSERT INTO city VALUES(1464, 'Roma' , 'Italy' , 2643581);  INSERT INTO city VALUES(1465, 'Milano' , 'Italy' , 1300977);  INSERT INTO city VALUES(1466, 'Napoli' , 'Italy' , 1002619);  INSERT INTO city VALUES(1532, 'Tokyo' , 'Japan' , 7980230);  INSERT INTO city VALUES(1533, 'Jokohama [Yokohama]', 'Japan' , 3339594);  INSERT INTO city VALUES(1534, 'Osaka' , 'Japan' , 2595674);  INSERT INTO city VALUES(1535, 'Nagoya' , 'Japan' , 2154376);  INSERT INTO city VALUES(1536, 'Sapporo' , 'Japan' , 1790886);  INSERT INTO city VALUES(1537, 'Kioto' , 'Japan' , 1461974);  INSERT INTO city VALUES(1538, 'Kobe' , 'Japan' , 1425139);  INSERT INTO city VALUES(1539, 'Fukuoka' , 'Japan' , 1308379);  INSERT INTO city VALUES(1540, 'Kawasaki' , 'Japan' , 1217359);  INSERT INTO city VALUES(1541, 'Hiroshima' , 'Japan' , 1119117);  INSERT INTO city VALUES(1542, 'Kitakyushu' , 'Japan' , 1016264);  INSERT INTO city VALUES(1860, 'Almaty' , 'Kazakstan' , 1129400);  INSERT INTO city VALUES(1881, 'Nairobi' , 'Kenya' , 2290000);  INSERT INTO city VALUES(2464, 'Kuala Lumpur' , 'Malaysia' , 1297526);  INSERT INTO city VALUES(2515, 'Ciudad de MÃ©xico' , 'Mexico' , 8591309);  INSERT INTO city VALUES(2516, 'Guadalajara' , 'Mexico' , 1647720);  INSERT INTO city VALUES(2517, 'Ecatepec de Morelos', 'Mexico' , 1620303);  INSERT INTO city VALUES(2518, 'Puebla' , 'Mexico' , 1346176);  INSERT INTO city VALUES(2519, 'NezahualcÃ³yotl' , 'Mexico' , 1224924);  INSERT INTO city VALUES(2520, 'JuÃ¡rez' , 'Mexico' , 1217818);  INSERT INTO city VALUES(2521, 'Tijuana' , 'Mexico' , 1212232);  INSERT INTO city VALUES(2522, 'LeÃ³n' , 'Mexico' , 1133576);  INSERT INTO city VALUES(2523, 'Monterrey' , 'Mexico' , 1108499);  INSERT INTO city VALUES(2524, 'Zapopan' , 'Mexico' , 1002239);  INSERT INTO city VALUES(2485, 'Casablanca' , 'Morocco' , 2940623);  INSERT INTO city VALUES(2698, 'Maputo' , 'Mozambique' , 1018938);  INSERT INTO city VALUES(2710, 'Rangoon (Yangon)' , 'Myanmar' , 3361700);  INSERT INTO city VALUES(2741, 'Lagos' , 'Nigeria' , 1518000);  INSERT INTO city VALUES(2742, 'Ibadan' , 'Nigeria' , 1432000);  INSERT INTO city VALUES(2318, 'Pyongyang' , 'North Korea' , 2484000);  INSERT INTO city VALUES(2822, 'Karachi' , 'Pakistan' , 9269265);  INSERT INTO city VALUES(2823, 'Lahore' , 'Pakistan' , 5063499);  INSERT INTO city VALUES(2824, 'Faisalabad' , 'Pakistan' , 1977246);  INSERT INTO city VALUES(2825, 'Rawalpindi' , 'Pakistan' , 1406214);  INSERT INTO city VALUES(2826, 'Multan' , 'Pakistan' , 1182441);  INSERT INTO city VALUES(2827, 'Hyderabad' , 'Pakistan' , 1151274);  INSERT INTO city VALUES(2828, 'Gujranwala' , 'Pakistan' , 1124749);  INSERT INTO city VALUES(2890, 'Lima' , 'Peru' , 6464693);  INSERT INTO city VALUES( 765, 'Quezon' , 'Philippines' , 2173831);  INSERT INTO city VALUES( 766, 'Manila' , 'Philippines' , 1581082);  INSERT INTO city VALUES( 767, 'Kalookan' , 'Philippines' , 1177604);  INSERT INTO city VALUES( 768, 'Davao' , 'Philippines' , 1147116);  INSERT INTO city VALUES(2928, 'Warszawa' , 'Poland' , 1615369);  INSERT INTO city VALUES(3018, 'Bucuresti' , 'Romania' , 2016131);  INSERT INTO city VALUES(3580, 'Moscow' , 'Russian Federation' , 8389200);  INSERT INTO city VALUES(3581, 'St Petersburg' , 'Russian Federation' , 4694000);  INSERT INTO city VALUES(3582, 'Novosibirsk' , 'Russian Federation' , 1398800);  INSERT INTO city VALUES(3583, 'Nizni Novgorod' , 'Russian Federation' , 1357000);  INSERT INTO city VALUES(3584, 'Jekaterinburg' , 'Russian Federation' , 1266300);  INSERT INTO city VALUES(3585, 'Samara' , 'Russian Federation' , 1156100);  INSERT INTO city VALUES(3586, 'Omsk' , 'Russian Federation' , 1148900);  INSERT INTO city VALUES(3587, 'Kazan' , 'Russian Federation' , 1101000);  INSERT INTO city VALUES(3588, 'Ufa' , 'Russian Federation' , 1091200);  INSERT INTO city VALUES(3589, 'TÂšeljabinsk' , 'Russian Federation' , 1083200);  INSERT INTO city VALUES(3590, 'Rostov-na-Donu' , 'Russian Federation' , 1012700);  INSERT INTO city VALUES(3591, 'Perm' , 'Russian Federation' , 1009700);  INSERT INTO city VALUES(3173, 'Riyadh' , 'Saudi Arabia' , 3324000);  INSERT INTO city VALUES(3174, 'Jedda' , 'Saudi Arabia' , 2046300);  INSERT INTO city VALUES( 712, 'Cape Town' , 'South Africa' , 2352121);  INSERT INTO city VALUES(2331, 'Seoul' , 'South Korea' , 9981619);  INSERT INTO city VALUES(2332, 'Pusan' , 'South Korea' , 3804522);  INSERT INTO city VALUES(2333, 'Inchon' , 'South Korea' , 2559424);  INSERT INTO city VALUES(2334, 'Taegu' , 'South Korea' , 2548568);  INSERT INTO city VALUES(2335, 'Taejon' , 'South Korea' , 1425835);  INSERT INTO city VALUES(2336, 'Kwangju' , 'South Korea' , 1368341);  INSERT INTO city VALUES(2337, 'Ulsan' , 'South Korea' , 1084891);  INSERT INTO city VALUES( 653, 'Madrid' , 'Spain' , 2879052);  INSERT INTO city VALUES( 654, 'Barcelona' , 'Spain' , 1503451);  INSERT INTO city VALUES(3224, 'Omdurman' , 'Sudan' , 1271403);  INSERT INTO city VALUES(3250, 'Damascus' , 'Syria' , 1347000);  INSERT INTO city VALUES(3251, 'Aleppo' , 'Syria' , 1261983);  INSERT INTO city VALUES(3263, 'Taipei' , 'Taiwan' , 2641312);  INSERT INTO city VALUES(3264, 'Kaohsiung' , 'Taiwan' , 1475505);  INSERT INTO city VALUES(3305, 'Dar es Salaam' , 'Tanzania' , 1747000);  INSERT INTO city VALUES(3320, 'Bangkok' , 'Thailand' , 6320174);  INSERT INTO city VALUES(3357, 'Istanbul' , 'Turkey' , 8787958);  INSERT INTO city VALUES(3358, 'Ankara' , 'Turkey' , 3038159);  INSERT INTO city VALUES(3359, 'Izmir' , 'Turkey' , 2130359);  INSERT INTO city VALUES(3360, 'Adana' , 'Turkey' , 1131198);  INSERT INTO city VALUES(3361, 'Bursa' , 'Turkey' , 1095842);  INSERT INTO city VALUES(3426, 'Kyiv' , 'Ukraine' , 2624000);  INSERT INTO city VALUES(3427, 'Harkova [Harkiv]' , 'Ukraine' , 1500000);  INSERT INTO city VALUES(3428, 'Dnipropetrovsk' , 'Ukraine' , 1103000);  INSERT INTO city VALUES(3429, 'Donetsk' , 'Ukraine' , 1050000);  INSERT INTO city VALUES(3430, 'Odesa' , 'Ukraine' , 1011000);  INSERT INTO city VALUES( 456, 'London' , 'United Kingdom' , 7285000);  INSERT INTO city VALUES( 457, 'Birmingham' , 'United Kingdom' , 1013000);  INSERT INTO city VALUES(3793, 'New York' , 'United States' , 8008278);  INSERT INTO city VALUES(3794, 'Los Angeles' , 'United States' , 3694820);  INSERT INTO city VALUES(3795, 'Chicago' , 'United States' , 2896016);  INSERT INTO city VALUES(3796, 'Houston' , 'United States' , 1953631);  INSERT INTO city VALUES(3797, 'Philadelphia' , 'United States' , 1517550);  INSERT INTO city VALUES(3798, 'Phoenix' , 'United States' , 1321045);  INSERT INTO city VALUES(3799, 'San Diego' , 'United States' , 1223400);  INSERT INTO city VALUES(3800, 'Dallas' , 'United States' , 1188580);  INSERT INTO city VALUES(3801, 'San Antonio' , 'United States' , 1144646);  INSERT INTO city VALUES(3503, 'Toskent' , 'Uzbekistan' , 2117500);  INSERT INTO city VALUES(3539, 'Caracas' , 'Venezuela' , 1975294);  INSERT INTO city VALUES(3540, 'MaracaÃ­bo' , 'Venezuela' , 1304776);  INSERT INTO city VALUES(3769, 'Ho Chi Minh City' , 'Vietnam' , 3980000);  INSERT INTO city VALUES(3770, 'Hanoi' , 'Vietnam' , 1410000);  INSERT INTO city VALUES(1792, 'Beograd' , 'Yugoslavia' , 1204000);  INSERT INTO city VALUES(4068, 'Harare' , 'Zimbabwe' , 1410000); |

* queries.sql

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| -- Top 20 most populated cities  SELECT \* FROM city  ORDER BY  -Population  LIMIT 20;  -- Top 20 least populated cities  SELECT \* FROM city  ORDER BY  Population  LIMIT 20;  -- Top 20 cities with the greatest fraction of their countries population  SELECT  ct.\*, (100 \* ct.Population / cy.Population) AS '% Population of Country'  FROM city ct, country cy  WHERE  ct.Country = cy.Name  ORDER BY  -(ct.Population / cy.Population)  LIMIT 20;  -- Top 20 cities with the least fraction of their countries population  SELECT  ct.\*, (100 \* ct.Population / cy.Population) AS '% Population of Country'  FROM city ct, country cy  WHERE  ct.Country = cy.Name  ORDER BY  (ct.Population / cy.Population)  LIMIT 20;  -- Top 20 cities in the most wealtiest countries where English is spoken  SELECT  ct.ID, ct.Name, ct.Country, ct.Population,  (cy.GDP \* ct.Population / cy.Population) AS 'Approx. GDP of City (in million $ USD)',  cy.GDP, cl.Language  FROM city ct, country cy, countrylanguage cl  WHERE  ct.Country = cy.Name  AND  cy.Code = cl.CountryCode  AND  cl.Language = 'English'  ORDER BY  -(cy.GDP \* ct.Population / cy.Population)  LIMIT 20;  -- Top 20 wealtiest African cities  SELECT  ct.ID, ct.Name, ct.Country, ct.Population,  (cy.GDP \* ct.Population / cy.Population) AS 'Approx. GDP of City (in million $ USD)',  cy.GDP  FROM city ct, country cy  WHERE  ct.Country = cy.Name  AND  cy.Continent = 'Africa'  ORDER BY  -(cy.GDP \* ct.Population / cy.Population)  LIMIT 20;  -- All citites in countries where a European language is spoken  SELECT  ct.\*, cy.Population, cy.Continent, cl.Language  FROM city ct, country cy, countrylanguage cl  WHERE  ct.Country = cy.Name  AND  cy.Code = cl.CountryCode  AND  cl.Language IN (  SELECT  cl.Language  FROM country cy, countrylanguage cl  WHERE  cy.Code = cl.CountryCode  AND  cy.Continent = 'Europe'  )  ORDER BY  -ct.Population;  -- All countire where a Chinese language is spoke  SELECT  ct.\*, cy.Population, cy.Continent, cl.Language  FROM city ct, country cy, countrylanguage cl  WHERE  ct.Country = cy.Name  AND  cy.Code = cl.CountryCode  AND  cl.Language IN (  SELECT  cl.Language  FROM country cy, countrylanguage cl  WHERE  cy.Code = cl.CountryCode  AND  cy.Name = 'China'  )  ORDER BY  -ct.Population; |

* OUTPUT

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| --- |
| mysql> SELECT \* FROM city  -> ORDER BY  -> -Population  -> LIMIT 20;  +------+-------------------------+--------------------+------------+  | ID | Name | Country | Population |  +------+-------------------------+--------------------+------------+  | 1024 | Mumbai (Bombay) | India | 10500000 |  | 2331 | Seoul | South Korea | 9981619 |  | 206 | SÃ£o Paulo | Brazil | 9968485 |  | 1890 | Shanghai | China | 9696300 |  | 939 | Jakarta | Indonesia | 9604900 |  | 2822 | Karachi | Pakistan | 9269265 |  | 3357 | Istanbul | Turkey | 8787958 |  | 2515 | Ciudad de MÃ©xico | Mexico | 8591309 |  | 3580 | Moscow | Russian Federation | 8389200 |  | 3793 | New York | United States | 8008278 |  | 1532 | Tokyo | Japan | 7980230 |  | 1891 | Peking | China | 7472000 |  | 456 | London | United Kingdom | 7285000 |  | 1025 | Delhi | India | 7206704 |  | 608 | Cairo | Egypt | 6789479 |  | 1380 | Teheran | Iran | 6758845 |  | 2890 | Lima | Peru | 6464693 |  | 1892 | Chongqing | China | 6351600 |  | 3320 | Bangkok | Thailand | 6320174 |  | 2257 | SantafÃ© de BogotÃ¡ | Colombia | 6260862 |  +------+-------------------------+--------------------+------------+  20 rows in set (0.04 sec)  mysql> SELECT \* FROM city  -> ORDER BY  -> Population  -> LIMIT 20;  +------+-------------------+--------------------+------------+  | ID | Name | Country | Population |  +------+-------------------+--------------------+------------+  | 2524 | Zapopan | Mexico | 1002239 |  | 1466 | Napoli | Italy | 1002619 |  | 3591 | Perm | Russian Federation | 1009700 |  | 3430 | Odesa | Ukraine | 1011000 |  | 3590 | Rostov-na-Donu | Russian Federation | 1012700 |  | 457 | Birmingham | United Kingdom | 1013000 |  | 1041 | Kalyan | India | 1014557 |  | 1542 | Kitakyushu | Japan | 1016264 |  | 1810 | MontrÃ©al | Canada | 1016376 |  | 2698 | Maputo | Mozambique | 1018938 |  | 1040 | Vadodara (Baroda) | India | 1031346 |  | 1924 | Tangshan | China | 1040000 |  | 1923 | Jilin | China | 1040000 |  | 1039 | Ludhiana | India | 1042740 |  | 3429 | Donetsk | Ukraine | 1050000 |  | 1384 | Shiraz | Iran | 1053025 |  | 218 | GoiÃ¢nia | Brazil | 1056330 |  | 946 | Ujung Pandang | Indonesia | 1060257 |  | 1038 | Bhopal | India | 1062771 |  | 1922 | Qiqihar | China | 1070000 |  +------+-------------------+--------------------+------------+  20 rows in set (0.00 sec)  mysql> SELECT  -> ct.\*, (100 \* ct.Population / cy.Population) AS '% Population of Country'  -> FROM city ct, country cy  -> WHERE  -> ct.Country = cy.Name  -> ORDER BY  -> -(ct.Population / cy.Population)  -> LIMIT 20;  +------+-------------------------+----------------------+------------+-------------------------+  | ID | Name | Country | Population | % Population of Country |  +------+-------------------------+----------------------+------------+-------------------------+  | 554 | Santiago de Chile | Chile | 4703954 | 30.9247 |  | 2890 | Lima | Peru | 6464693 | 25.1917 |  | 2331 | Seoul | South Korea | 9981619 | 21.3082 |  | 2413 | La Habana | Cuba | 2256000 | 20.1411 |  | 1365 | Baghdad | Iraq | 4336000 | 18.7584 |  | 3483 | Budapest | Hungary | 1811552 | 18.0376 |  | 130 | Sydney | Australia | 3276207 | 17.3473 |  | 2812 | Abidjan | CÃ´te dÂ’Ivoire | 2500000 | 16.9079 |  | 593 | Guayaquil | Ecuador | 2070040 | 16.3691 |  | 3520 | Minsk | Belarus | 1674000 | 16.3540 |  | 56 | Luanda | Angola | 2022000 | 15.7012 |  | 3173 | Riyadh | Saudi Arabia | 3324000 | 15.3839 |  | 131 | Melbourne | Australia | 2865329 | 15.1717 |  | 2257 | SantafÃ© de BogotÃ¡ | Colombia | 6260862 | 14.7937 |  | 3357 | Istanbul | Turkey | 8787958 | 13.1969 |  | 594 | Quito | Ecuador | 1573458 | 12.4423 |  | 456 | London | United Kingdom | 7285000 | 12.2184 |  | 4068 | Harare | Zimbabwe | 1410000 | 12.0833 |  | 3263 | Taipei | Taiwan | 2641312 | 11.8679 |  | 3339 | Praha | Czech Republic | 1181126 | 11.4917 |  +------+-------------------------+----------------------+------------+-------------------------+  20 rows in set (0.02 sec)  mysql> SELECT  -> ct.\*, (100 \* ct.Population / cy.Population) AS '% Population of Country'  -> FROM city ct, country cy  -> WHERE  -> ct.Country = cy.Name  -> ORDER BY  -> (ct.Population / cy.Population)  -> LIMIT 20;  +------+---------------------------+---------+------------+-------------------------+  | ID | Name | Country | Population | % Population of Country |  +------+---------------------------+---------+------------+-------------------------+  | 1924 | Tangshan | China | 1040000 | 0.0814 |  | 1922 | Qiqihar | China | 1070000 | 0.0838 |  | 1923 | Jilin | China | 1040000 | 0.0814 |  | 1918 | Anshan | China | 1200000 | 0.0939 |  | 1919 | Fushun | China | 1200000 | 0.0939 |  | 1921 | Zibo | China | 1140000 | 0.0892 |  | 1920 | Nanning | China | 1161800 | 0.0909 |  | 1917 | UrumtÂši [ÃœrÃ¼mqi] | China | 1310100 | 0.1025 |  | 1040 | Vadodara (Baroda) | India | 1031346 | 0.1017 |  | 1038 | Bhopal | India | 1062771 | 0.1048 |  | 1039 | Ludhiana | India | 1042740 | 0.1029 |  | 1041 | Kalyan | India | 1014557 | 0.1001 |  | 1037 | Indore | India | 1091674 | 0.1077 |  | 1916 | Hefei | China | 1369100 | 0.1072 |  | 1914 | Guiyang | China | 1465200 | 0.1147 |  | 1915 | Ningbo | China | 1371200 | 0.1073 |  | 1912 | Fuzhou | China | 1593800 | 0.1248 |  | 1913 | Lanzhou | China | 1565800 | 0.1226 |  | 1911 | Nanchang | China | 1691600 | 0.1324 |  | 1910 | Changsha | China | 1809800 | 0.1417 |  +------+---------------------------+---------+------------+-------------------------+  20 rows in set (0.00 sec)  mysql> SELECT  -> ct.ID, ct.Name, ct.Country, ct.Population,  -> (cy.GDP \* ct.Population / cy.Population) AS 'Approx. GDP of City (in million $ USD)',  -> cy.GDP, cl.Language  -> FROM city ct, country cy, countrylanguage cl  -> WHERE  -> ct.Country = cy.Name  -> AND  -> cy.Code = cl.CountryCode  -> AND  -> cl.Language = 'English'  -> ORDER BY  -> -(cy.GDP \* ct.Population / cy.Population)  -> LIMIT 20;  +------+--------------+----------------+------------+-----------------------------------------+------------+----------+  | ID | Name | Country | Population | Approx. GDP of City (in million $ USD) | GDP | Language |  +------+--------------+----------------+------------+-----------------------------------------+------------+----------+  | 3793 | New York | United States | 8008278 | 244851.221901 | 8510700.00 | English |  | 456 | London | United Kingdom | 7285000 | 168409.283100 | 1378330.00 | English |  | 3794 | Los Angeles | United States | 3694820 | 112968.255061 | 8510700.00 | English |  | 3795 | Chicago | United States | 2896016 | 88545.010081 | 8510700.00 | English |  | 130 | Sydney | Australia | 3276207 | 60920.519256 | 351182.00 | English |  | 3796 | Houston | United States | 1953631 | 59731.809697 | 8510700.00 | English |  | 131 | Melbourne | Australia | 2865329 | 53280.311812 | 351182.00 | English |  | 3797 | Philadelphia | United States | 1517550 | 46398.735383 | 8510700.00 | English |  | 3798 | Phoenix | United States | 1321045 | 40390.641089 | 8510700.00 | English |  | 3799 | San Diego | United States | 1223400 | 37405.168111 | 8510700.00 | English |  | 3800 | Dallas | United States | 1188580 | 36340.554777 | 8510700.00 | English |  | 3801 | San Antonio | United States | 1144646 | 34997.283029 | 8510700.00 | English |  | 132 | Brisbane | Australia | 1291117 | 24008.103902 | 351182.00 | English |  | 457 | Birmingham | United Kingdom | 1013000 | 23417.790498 | 1378330.00 | English |  | 133 | Perth | Australia | 1096829 | 20395.351153 | 351182.00 | English |  | 1810 | MontrÃ©al | Canada | 1016376 | 19541.816679 | 598862.00 | English |  | 712 | Cape Town | South Africa | 2352121 | 6799.928975 | 116729.00 | English |  | 4068 | Harare | Zimbabwe | 1410000 | 719.077042 | 5951.00 | English |  +------+--------------+----------------+------------+-----------------------------------------+------------+----------+  18 rows in set (0.02 sec)  mysql> SELECT  -> ct.ID, ct.Name, ct.Country, ct.Population,  -> (cy.GDP \* ct.Population / cy.Population) AS 'Approx. GDP of City (in million $ USD)',  -> cy.GDP  -> FROM city ct, country cy  -> WHERE  -> ct.Country = cy.Name  -> AND  -> cy.Continent = 'Africa'  -> ORDER BY  -> -(cy.GDP \* ct.Population / cy.Population)  -> LIMIT 20;  +------+---------------+----------------------+------------+----------------------------------------+-----------+  | ID | Name | Country | Population | Approx. GDP of City (in million $ USD) | GDP |  +------+---------------+----------------------+------------+----------------------------------------+-----------+  | 608 | Cairo | Egypt | 6789479 | 8201.516111 | 82710.00 |  | 712 | Cape Town | South Africa | 2352121 | 6799.928975 | 116729.00 |  | 609 | Alexandria | Egypt | 3328196 | 4020.375218 | 82710.00 |  | 2485 | Casablanca | Morocco | 2940623 | 3746.854264 | 36124.00 |  | 35 | Alger | Algeria | 2168000 | 3443.200915 | 49982.00 |  | 610 | Giza | Egypt | 2221868 | 2683.959432 | 82710.00 |  | 2812 | Abidjan | CÃ´te dÂ’Ivoire | 2500000 | 1918.199648 | 11345.00 |  | 56 | Luanda | Angola | 2022000 | 1043.815499 | 6648.00 |  | 2741 | Lagos | Nigeria | 1518000 | 894.509946 | 65707.00 |  | 1803 | Douala | Cameroon | 1448300 | 880.789142 | 9174.00 |  | 2742 | Ibadan | Nigeria | 1432000 | 843.832834 | 65707.00 |  | 1804 | YaoundÃ© | Cameroon | 1372800 | 834.873530 | 9174.00 |  | 4068 | Harare | Zimbabwe | 1410000 | 719.077042 | 5951.00 |  | 1881 | Nairobi | Kenya | 2290000 | 701.693152 | 9217.00 |  | 3224 | Omdurman | Sudan | 1271403 | 438.114523 | 10162.00 |  | 3305 | Dar es Salaam | Tanzania | 1747000 | 417.243041 | 8005.00 |  | 910 | Accra | Ghana | 1070000 | 377.824560 | 7137.00 |  | 756 | Addis Abeba | Ethiopia | 2495000 | 253.348278 | 6353.00 |  | 2698 | Maputo | Mozambique | 1018938 | 149.682406 | 2891.00 |  +------+---------------+----------------------+------------+----------------------------------------+-----------+  19 rows in set (0.02 sec)  mysql> SELECT  -> ct.\*, cy.Population, cy.Continent, cl.Language  -> FROM city ct, country cy, countrylanguage cl  -> WHERE  -> ct.Country = cy.Name  -> AND  -> cy.Code = cl.CountryCode  -> AND  -> cl.Language IN (  -> SELECT  -> cl.Language  -> FROM country cy, countrylanguage cl  -> WHERE  -> cy.Code = cl.CountryCode  -> AND  -> cy.Continent = 'Europe'  -> )  -> ORDER BY  -> -ct.Population;  +------+-------------------------+--------------------+------------+------------+---------------+----------------+  | ID | Name | Country | Population | Population | Continent | Language |  +------+-------------------------+--------------------+------------+------------+---------------+----------------+  | 2515 | Ciudad de MÃ©xico | Mexico | 8591309 | 98881000 | North America | Spanish |  | 3580 | Moscow | Russian Federation | 8389200 | 146934000 | Europe | Russian |  | 3793 | New York | United States | 8008278 | 278357000 | North America | English |  | 456 | London | United Kingdom | 7285000 | 59623400 | Europe | English |  | 2890 | Lima | Peru | 6464693 | 25662000 | South America | Spanish |  | 2257 | SantafÃ© de BogotÃ¡ | Colombia | 6260862 | 42321000 | South America | Spanish |  | 554 | Santiago de Chile | Chile | 4703954 | 15211000 | South America | Spanish |  | 3581 | St Petersburg | Russian Federation | 4694000 | 146934000 | Europe | Russian |  | 3794 | Los Angeles | United States | 3694820 | 278357000 | North America | English |  | 3068 | Berlin | Germany | 3386667 | 82164700 | Europe | German |  | 130 | Sydney | Australia | 3276207 | 18886000 | Oceania | English |  | 69 | Buenos Aires | Argentina | 2982146 | 37032000 | South America | Spanish |  | 3795 | Chicago | United States | 2896016 | 278357000 | North America | English |  | 653 | Madrid | Spain | 2879052 | 39441700 | Europe | Spanish |  | 653 | Madrid | Spain | 2879052 | 39441700 | Europe | Catalan |  | 131 | Melbourne | Australia | 2865329 | 18886000 | Oceania | English |  | 1464 | Roma | Italy | 2643581 | 57680000 | Europe | Italian |  | 3426 | Kyiv | Ukraine | 2624000 | 50456000 | Europe | Ukrainian |  | 3426 | Kyiv | Ukraine | 2624000 | 50456000 | Europe | Russian |  | 712 | Cape Town | South Africa | 2352121 | 40377000 | Africa | English |  | 2413 | La Habana | Cuba | 2256000 | 11201000 | North America | Spanish |  | 2974 | Paris | France | 2125246 | 59225700 | Europe | French |  | 3503 | Toskent | Uzbekistan | 2117500 | 24318000 | Asia | Russian |  | 2258 | Cali | Colombia | 2077386 | 42321000 | South America | Spanish |  | 593 | Guayaquil | Ecuador | 2070040 | 12646000 | South America | Spanish |  | 3018 | Bucuresti | Romania | 2016131 | 22455500 | Europe | Romani |  | 3018 | Bucuresti | Romania | 2016131 | 22455500 | Europe | Romanian |  | 3539 | Caracas | Venezuela | 1975294 | 24170000 | South America | Spanish |  | 3796 | Houston | United States | 1953631 | 278357000 | North America | English |  | 2259 | MedellÃ­n | Colombia | 1861265 | 42321000 | South America | Spanish |  | 3483 | Budapest | Hungary | 1811552 | 10043200 | Europe | Hungarian |  | 3069 | Hamburg | Germany | 1704735 | 82164700 | Europe | German |  | 3520 | Minsk | Belarus | 1674000 | 10236000 | Europe | Belorussian |  | 3520 | Minsk | Belarus | 1674000 | 10236000 | Europe | Russian |  | 2516 | Guadalajara | Mexico | 1647720 | 98881000 | North America | Spanish |  | 2517 | Ecatepec de Morelos | Mexico | 1620303 | 98881000 | North America | Spanish |  | 2928 | Warszawa | Poland | 1615369 | 38653600 | Europe | Polish |  | 594 | Quito | Ecuador | 1573458 | 12646000 | South America | Spanish |  | 3797 | Philadelphia | United States | 1517550 | 278357000 | North America | English |  | 654 | Barcelona | Spain | 1503451 | 39441700 | Europe | Spanish |  | 654 | Barcelona | Spain | 1503451 | 39441700 | Europe | Catalan |  | 3427 | Harkova [Harkiv] | Ukraine | 1500000 | 50456000 | Europe | Russian |  | 3427 | Harkova [Harkiv] | Ukraine | 1500000 | 50456000 | Europe | Ukrainian |  | 4068 | Harare | Zimbabwe | 1410000 | 11669000 | Africa | English |  | 3582 | Novosibirsk | Russian Federation | 1398800 | 146934000 | Europe | Russian |  | 3583 | Nizni Novgorod | Russian Federation | 1357000 | 146934000 | Europe | Russian |  | 2518 | Puebla | Mexico | 1346176 | 98881000 | North America | Spanish |  | 3798 | Phoenix | United States | 1321045 | 278357000 | North America | English |  | 3540 | MaracaÃ­bo | Venezuela | 1304776 | 24170000 | South America | Spanish |  | 1465 | Milano | Italy | 1300977 | 57680000 | Europe | Italian |  | 132 | Brisbane | Australia | 1291117 | 18886000 | Oceania | English |  | 70 | La Matanza | Argentina | 1266461 | 37032000 | South America | Spanish |  | 3584 | Jekaterinburg | Russian Federation | 1266300 | 146934000 | Europe | Russian |  | 2519 | NezahualcÃ³yotl | Mexico | 1224924 | 98881000 | North America | Spanish |  | 3799 | San Diego | United States | 1223400 | 278357000 | North America | English |  | 2260 | Barranquilla | Colombia | 1223260 | 42321000 | South America | Spanish |  | 2520 | JuÃ¡rez | Mexico | 1217818 | 98881000 | North America | Spanish |  | 2521 | Tijuana | Mexico | 1212232 | 98881000 | North America | Spanish |  | 1792 | Beograd | Yugoslavia | 1204000 | 10640000 | Europe | Albaniana |  | 1792 | Beograd | Yugoslavia | 1204000 | 10640000 | Europe | Serbo-Croatian |  | 3070 | Munich [MÃ¼nchen] | Germany | 1194560 | 82164700 | Europe | German |  | 3800 | Dallas | United States | 1188580 | 278357000 | North America | English |  | 3339 | Praha | Czech Republic | 1181126 | 10278100 | Europe | Moravian |  | 3339 | Praha | Czech Republic | 1181126 | 10278100 | Europe | Czech |  | 71 | CÃ³rdoba | Argentina | 1157507 | 37032000 | South America | Spanish |  | 3585 | Samara | Russian Federation | 1156100 | 146934000 | Europe | Russian |  | 3586 | Omsk | Russian Federation | 1148900 | 146934000 | Europe | Russian |  | 3801 | San Antonio | United States | 1144646 | 278357000 | North America | English |  | 2522 | LeÃ³n | Mexico | 1133576 | 98881000 | North America | Spanish |  | 1860 | Almaty | Kazakstan | 1129400 | 16223000 | Asia | Russian |  | 2523 | Monterrey | Mexico | 1108499 | 98881000 | North America | Spanish |  | 3428 | Dnipropetrovsk | Ukraine | 1103000 | 50456000 | Europe | Russian |  | 3428 | Dnipropetrovsk | Ukraine | 1103000 | 50456000 | Europe | Ukrainian |  | 3587 | Kazan | Russian Federation | 1101000 | 146934000 | Europe | Russian |  | 133 | Perth | Australia | 1096829 | 18886000 | Oceania | English |  | 3588 | Ufa | Russian Federation | 1091200 | 146934000 | Europe | Russian |  | 3589 | TÂšeljabinsk | Russian Federation | 1083200 | 146934000 | Europe | Russian |  | 3429 | Donetsk | Ukraine | 1050000 | 50456000 | Europe | Russian |  | 3429 | Donetsk | Ukraine | 1050000 | 50456000 | Europe | Ukrainian |  | 1810 | MontrÃ©al | Canada | 1016376 | 31147000 | North America | French |  | 1810 | MontrÃ©al | Canada | 1016376 | 31147000 | North America | English |  | 457 | Birmingham | United Kingdom | 1013000 | 59623400 | Europe | English |  | 3590 | Rostov-na-Donu | Russian Federation | 1012700 | 146934000 | Europe | Russian |  | 3430 | Odesa | Ukraine | 1011000 | 50456000 | Europe | Ukrainian |  | 3430 | Odesa | Ukraine | 1011000 | 50456000 | Europe | Russian |  | 3591 | Perm | Russian Federation | 1009700 | 146934000 | Europe | Russian |  | 1466 | Napoli | Italy | 1002619 | 57680000 | Europe | Italian |  | 2524 | Zapopan | Mexico | 1002239 | 98881000 | North America | Spanish |  +------+-------------------------+--------------------+------------+------------+---------------+----------------+  88 rows in set (0.08 sec)  mysql> SELECT  -> ct.\*, cy.Population, cy.Continent, cl.Language  -> FROM city ct, country cy, countrylanguage cl  -> WHERE  -> ct.Country = cy.Name  -> AND  -> cy.Code = cl.CountryCode  -> AND  -> cl.Language IN (  -> SELECT  -> cl.Language  -> FROM country cy, countrylanguage cl  -> WHERE  -> cy.Code = cl.CountryCode  -> AND  -> cy.Name = 'China'  -> )  -> ORDER BY  -> -ct.Population;  +------+---------------------------+----------+------------+------------+-----------+----------+  | ID | Name | Country | Population | Population | Continent | Language |  +------+---------------------------+----------+------------+------------+-----------+----------+  | 1890 | Shanghai | China | 9696300 | 1277558000 | Asia | Chinese |  | 1891 | Peking | China | 7472000 | 1277558000 | Asia | Chinese |  | 1892 | Chongqing | China | 6351600 | 1277558000 | Asia | Chinese |  | 3320 | Bangkok | Thailand | 6320174 | 61399000 | Asia | Chinese |  | 1893 | Tianjin | China | 5286800 | 1277558000 | Asia | Chinese |  | 1894 | Wuhan | China | 4344600 | 1277558000 | Asia | Chinese |  | 1895 | Harbin | China | 4289800 | 1277558000 | Asia | Chinese |  | 1896 | Shenyang | China | 4265200 | 1277558000 | Asia | Chinese |  | 1897 | Kanton [Guangzhou] | China | 4256300 | 1277558000 | Asia | Chinese |  | 1898 | Chengdu | China | 3361500 | 1277558000 | Asia | Chinese |  | 1899 | Nanking [Nanjing] | China | 2870300 | 1277558000 | Asia | Chinese |  | 1900 | Changchun | China | 2812000 | 1277558000 | Asia | Chinese |  | 1901 | XiÂ´an | China | 2761400 | 1277558000 | Asia | Chinese |  | 1902 | Dalian | China | 2697000 | 1277558000 | Asia | Chinese |  | 1903 | Qingdao | China | 2596000 | 1277558000 | Asia | Chinese |  | 1904 | Jinan | China | 2278100 | 1277558000 | Asia | Chinese |  | 1905 | Hangzhou | China | 2190500 | 1277558000 | Asia | Chinese |  | 1906 | Zhengzhou | China | 2107200 | 1277558000 | Asia | Chinese |  | 1907 | Shijiazhuang | China | 2041500 | 1277558000 | Asia | Chinese |  | 1908 | Taiyuan | China | 1968400 | 1277558000 | Asia | Chinese |  | 1909 | Kunming | China | 1829500 | 1277558000 | Asia | Chinese |  | 1910 | Changsha | China | 1809800 | 1277558000 | Asia | Chinese |  | 1911 | Nanchang | China | 1691600 | 1277558000 | Asia | Chinese |  | 1912 | Fuzhou | China | 1593800 | 1277558000 | Asia | Chinese |  | 1913 | Lanzhou | China | 1565800 | 1277558000 | Asia | Chinese |  | 1914 | Guiyang | China | 1465200 | 1277558000 | Asia | Chinese |  | 1915 | Ningbo | China | 1371200 | 1277558000 | Asia | Chinese |  | 1916 | Hefei | China | 1369100 | 1277558000 | Asia | Chinese |  | 1917 | UrumtÂši [ÃœrÃ¼mqi] | China | 1310100 | 1277558000 | Asia | Chinese |  | 1918 | Anshan | China | 1200000 | 1277558000 | Asia | Chinese |  | 1919 | Fushun | China | 1200000 | 1277558000 | Asia | Chinese |  | 1920 | Nanning | China | 1161800 | 1277558000 | Asia | Chinese |  | 1921 | Zibo | China | 1140000 | 1277558000 | Asia | Chinese |  | 1922 | Qiqihar | China | 1070000 | 1277558000 | Asia | Chinese |  | 1923 | Jilin | China | 1040000 | 1277558000 | Asia | Chinese |  | 1924 | Tangshan | China | 1040000 | 1277558000 | Asia | Chinese |  +------+---------------------------+----------+------------+------------+-----------+----------+  36 rows in set (0.01 sec) |