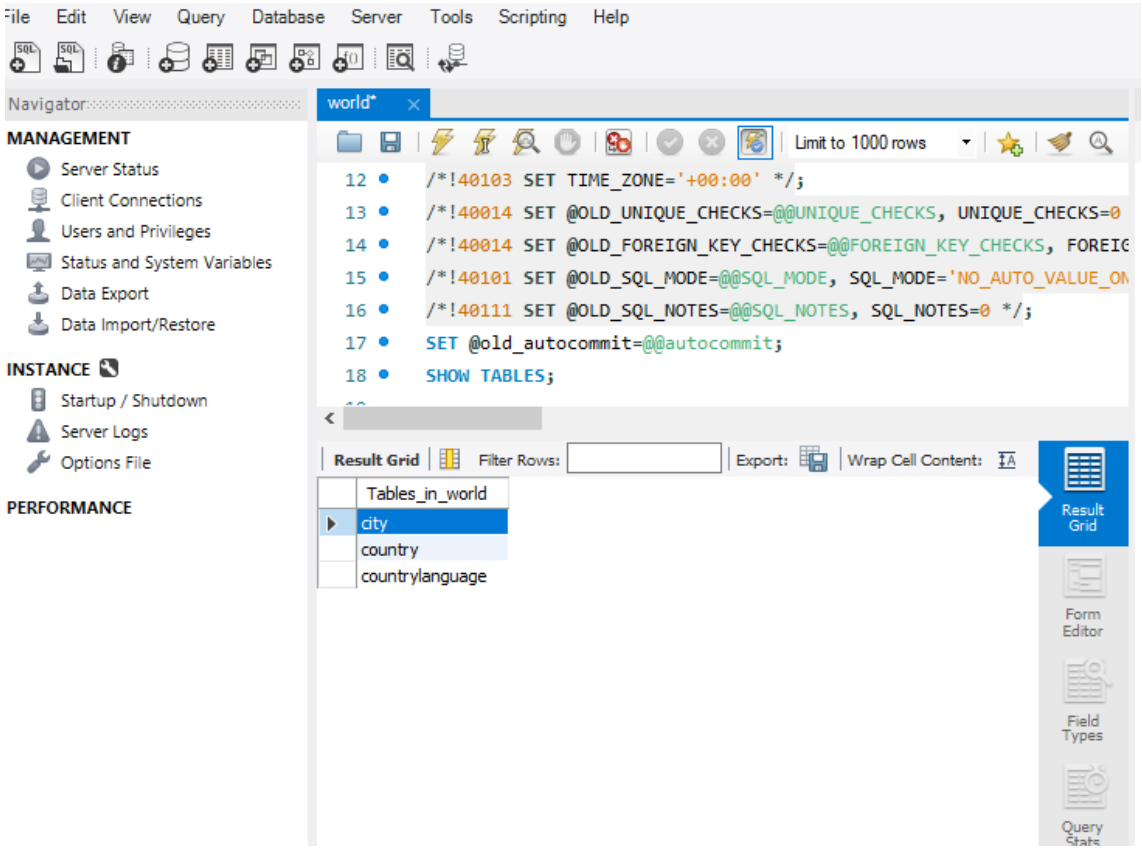
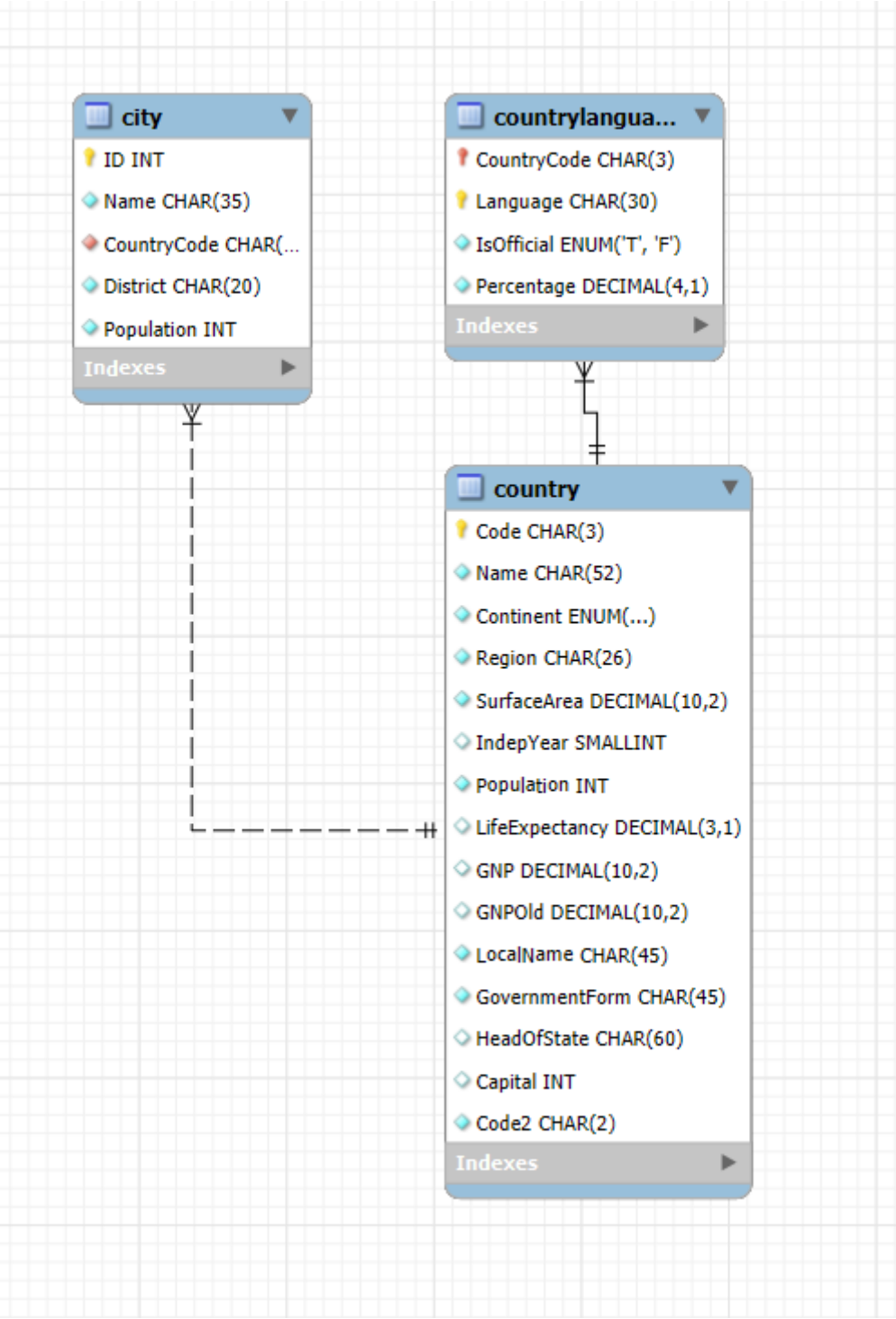



```
mysql> SHOW TABLES;
+-----------------+
| Tables_in_world |
+-----------------+
| city            |
| country         |
| countrylanguage |
+-----------------+
3 rows in set (0.00 sec)
```


city
ID INT
Name CHAR(35)
CountryCode CHAR(...
District CHAR(20)
Population INT
Indexes
countrylangua...
CountryCode CHAR(3)
Language CHAR(30)
IsOfficial ENUM('T', 'F')
Percentage DECIMAL(4,1)
Indexes
country
Code CHAR(3)
Name CHAR(52)
Continent ENUM(...)
Region CHAR(26)
SurfaceArea DECIMAL(10,2)
IndepYear SMALLINT
Population INT
LifeExpectancy DECIMAL(3,1)
GNP DECIMAL(10,2)
GNPOld DECIMAL(10,2)
LocalName CHAR(45)
GovernmentForm CHAR(45)
HeadOfState CHAR(60)
Capital INT
Code2 CHAR(2)
Indexes

```
mysql> SELECT country.Name, countrylanguage.Language
    -> FROM country
    -> JOIN countrylanguage ON country.Code = countrylanguage.CountryCo
    -> WHERE countrylanguage.IsOfficial = 'T';
+------------------------------------+-------------------+
| Name                               | Language          |
+------------------------------------+-------------------+
| Aruba                              | Dutch             |
| Afghanistan                        | Dari              |
| Afghanistan                        | Pashto            |
| Anguilla                           | English           |
| Albania                            | Albaniana         |
| Andorra                            | Catalan           |
| Netherlands Antilles               | Dutch             |
| Netherlands Antilles               | Papiamento        |
| United Arab Emirates               | Arabic            |
| Argentina                          | Spanish           |
| Armenia                            | Armenian          |
| American Samoa                     | English           |
| American Samoa                     | Samoan            |
| Antigua and Barbuda                | English           |
| Australia                          | English           |
| Austria                            | German            |
| Azerbaijan                         | Azerbaijani       |
| Burundi                            | French            |
| Burundi                            | Kirundi           |
| Belgium                            | Dutch             |
| Belgium                            | French            |
| Belgium                            | German            |
| Bangladesh                         | Bengali           |
| Bulgaria                           | Bulgariana        |
| Bahrain                            | Arabic            |
| Bosnia and Herzegovina             | Serbo-Croatian    |
| Belarus                            | Belorussian       |
| Belarus                            | Russian           |
| Belize                             | English           |
| Bermuda                            | English           |
| Bolivia                            | Aimará            |
| Bolivia                            | Ket?ua            |
| Bolivia                            | Spanish           |
| Brazil                             | Portuguese        |
| Barbados                           | English           |
| Brunei                             | Malay             |
| Bhutan                             | Dzongkha          |
| Canada                             | English           |
| Canada                             | French            |
| Cocos (Keeling) Islands            | English           |
| Switzerland                        | French            |
```

| name | population |
|---|---|
| Berlin | 3386667 |
| Hamburg | 1704735 |
| Munich [München] | 1194560 |
| Köln | 962507 |
| Frankfurt am Main | 643821 |
| Essen | 599515 |
| Dortmund | 590213 |
| Stuttgart | 582443 |
| Düsseldorf | 568855 |
| Bremen | 540330 |
| Duisburg | 519793 |
| Hannover | 514718 |
| Leipzig | 489532 |
| Nürnberg | 486628 |
| Dresden | 476668 |
| Bochum | 392830 |
| Wuppertal | 368993 |
| Bielefeld | 321125 |
| Mannheim | 307730 |
| Bonn | 301048 |
| Gelsenkirchen | 281979 |
| Karlsruhe | 277204 |
| Wiesbaden | 268716 |
| Münster | 264670 |
| Mönchengladbach | 263697 |
| Erfurt | 201267 |
| Kassel | 196211 |
| Saarbrücken | 183836 |
| Mainz | 183134 |
| Hamm | 181804 |
| Herne | 175661 |
| Mülheim an der Ruhr | 173895 |
| Solingen | 165583 |
| Osnabrück | 164539 |
| Ludwigshafen am Rhein | 163771 |
| Leverkusen | 160841 |
| Oldenburg | 154125 |
| Neuss | 149702 |
| Heidelberg | 139672 |
| Darmstadt | 137776 |
| Paderborn | 137647 |
| Potsdam | 128983 |
| Würzburg | 127350 |
| Regensburg | 125236 |
| Recklinghausen | 125022 |
| Göttingen | 124775 |
| Bremerhaven | 122735 |
| Wolfsburg | 121954 |
| Bottrop | 121097 |
| Remscheid | 120125 |
| Heilbronn | 119526 |
| Pforzheim | 117227 |
| Offenbach am Main | 116627 |
| Ulm | 116103 |
| Ingolstadt | 114826 |
| Gera | 114718 |
| Salzgitter | 112934 |
| Cottbus | 110894 |
| Reutlingen | 110343 |
| Fürth | 109771 |
| Siegen | 109225 |
| Koblenz | 108003 |

```
mysql> SELECT Continent,AVG(LifeExpectancy) AS Average_Life_Expect FROM country GROUP BY Conti
nent;
+---------------+--------------------+
| Continent     | Average_Life_Expect |
+---------------+--------------------+
| North America |           72.99189 |
| Asia          |           67.44118 |
| Africa        |           52.57193 |
| Europe        |           75.14773 |
| South America |           70.94615 |
| Oceania       |           69.71500 |
| Antarctica    |               NULL |
+---------------+--------------------+
7 rows in set (0.00 sec)
```

```
mysql> SELECT Name,SurfaceArea FROM country ORDER BY SurfaceArea ASC LIMIT 5;
+-------------------------------+-------------+
| Name                          | SurfaceArea |
+-------------------------------+-------------+
| Holy See (Vatican City State) |        0.40 |
| Monaco                        |        1.50 |
| Gibraltar                     |        6.00 |
| Tokelau                       |       12.00 |
| Cocos (Keeling) Islands       |       14.00 |
+-------------------------------+-------------+
```

```
mysql> SELECT Name, Population
    -> FROM country
    -> WHERE Population > 50000000
    -> ORDER BY Population DESC;
+----------------------------------------+------------+
| Name                                   | Population |
+----------------------------------------+------------+
| China                                  | 1277558000 |
| India                                  | 1013662000 |
| United States                          |  278357000 |
| Indonesia                              |  212107000 |
| Brazil                                 |  170115000 |
| Pakistan                               |  156483000 |
| Russian Federation                     |  146934000 |
| Bangladesh                             |  129155000 |
| Japan                                  |  126714000 |
| Nigeria                                |  111506000 |
| Mexico                                 |   98881000 |
| Germany                                |   82164700 |
| Vietnam                                |   79832000 |
| Philippines                            |   75967000 |
| Egypt                                  |   68470000 |
| Iran                                   |   67702000 |
| Turkey                                 |   66591000 |
| Ethiopia                               |   62565000 |
| Thailand                               |   61399000 |
| United Kingdom                         |   59623400 |
| France                                 |   59225700 |
| Italy                                  |   57680000 |
| Congo, The Democratic Republic of the  |   51654000 |
| Ukraine                                |   50456000 |
+----------------------------------------+------------+
```

```
mysql> SELECT Continent,AVG(LifeExpectancy) AS Average_Life_Expect FROM country GROUP BY Conti
nent;
+---------------+--------------------+
| Continent     | Average_Life_Expect |
+---------------+--------------------+
| North America |           72.99189 |
| Asia          |           67.44118 |
| Africa        |           52.57193 |
| Europe        |           75.14773 |
| South America |           70.94615 |
| Oceania       |           69.71500 |
| Antarctica    |               NULL |
+---------------+--------------------+
7 rows in set (0.00 sec)
```

```
mysql> SELECT region,SUM(population) AS Poblacion_total FROM country GROUP BY region;
+--------------------------+-----------------+
| region                   | Poblacion_total |
+--------------------------+-----------------+
| Caribbean                |        38140000 |
| Southern and Central Asia |      1490776000 |
| Central Africa           |        95652000 |
| Southern Europe          |       144674200 |
| Middle East              |       188380700 |
| South America            |       345780000 |
| Polynesia                |          633050 |
| Antarctica               |               0 |
| Australia and New Zealand |       22753100 |
| Western Europe           |       183247600 |
| Eastern Africa           |       246999000 |
| Western Africa           |       221672000 |
| Eastern Europe           |       307026000 |
| Central America          |       135221000 |
| North America            |       309632000 |
| Southeast Asia           |       518541000 |
| Southern Africa          |        46886000 |
| Eastern Asia             |      1507328000 |
| Nordic Countries         |        24166400 |
| Northern Africa          |       173266000 |
| Baltic Countries         |         7561900 |
| Melanesia                |         6472000 |
| Micronesia               |          543000 |
| British Islands          |        63398500 |
| Micronesia/Caribbean     |               0 |
+--------------------------+-----------------+
25 rows in set (0.00 sec)
```

```
mysql> SELECT country.Name, COUNT(city.ID) AS CityCount
    -> FROM city
    -> JOIN country ON city.CountryCode = country.Code
    -> GROUP BY country.Name
    -> ORDER BY CityCount DESC;
+--------------------------------------+-----------+
| Name                                 | CityCount |
+--------------------------------------+-----------+
| China                                |       363 |
| India                                |       341 |
| United States                        |       274 |
| Brazil                               |       250 |
| Japan                                |       248 |
| Russian Federation                   |       189 |
| Mexico                               |       173 |
| Philippines                          |       136 |
| Germany                              |        93 |
| Indonesia                            |        85 |
| United Kingdom                       |        81 |
| South Korea                          |        70 |
| Iran                                 |        67 |
| Nigeria                              |        64 |
| Turkey                               |        62 |
| Spain                                |        59 |
| Pakistan                             |        59 |
| Italy                                |        58 |
| Argentina                            |        57 |
| Ukraine                              |        57 |
| Canada                               |        49 |
| Poland                               |        44 |
| South Africa                         |        44 |
| Taiwan                               |        42 |
| Venezuela                            |        41 |
| France                               |        40 |
| Colombia                             |        38 |
| Egypt                                |        37 |
| Chile                                |        29 |
| Romania                              |        29 |
| Netherlands                          |        28 |
| Bangladesh                           |        24 |
```

```
mysql> SELECT city.name AS city_name,city.population,country.name AS country FRO
M city JOIN country ON city.countrycode = country.code ORDER BY city.population
DESC LIMIT 10;
+------------------+------------+--------------------+
| city_name        | population | country            |
+------------------+------------+--------------------+
| Mumbai (Bombay)  |   10500000 | India              |
| Seoul            |    9981619 | South Korea        |
| São Paulo        |    9968485 | Brazil             |
| Shanghai         |    9696300 | China              |
| Jakarta          |    9604900 | Indonesia          |
| Karachi          |    9269265 | Pakistan           |
| Istanbul         |    8787958 | Turkey             |
| Ciudad de México |    8591309 | Mexico             |
| Moscow           |    8389200 | Russian Federation |
| New York         |    8008278 | United States      |
+------------------+------------+--------------------+
10 rows in set (0.00 sec)
```

```
mysql> SELECT country.name AS french_speaking_countries FROM country JOIN countr
ylanguage ON country.code = countrylanguage.countrycode WHERE countrylanguage.la
nguage = 'french' && countrylanguage.isofficial = 'T';
+--------------------------+
| french_speaking_countries |
+--------------------------+
| Burundi                  |
| Belgium                  |
| Canada                   |
| Switzerland              |
| France                   |
| Guadeloupe               |
| Haiti                    |
| Luxembourg               |
| Monaco                   |
| Madagascar               |
| Martinique               |
| Mayotte                  |
| New Caledonia            |
| French Polynesia         |
| Rwanda                   |
| Saint Pierre and Miquelon |
```

```
mysql> SELECT DISTINCT country.name FROM country JOIN countrylanguage ON country
languAge.countrycode = country.code WHERE countrylanguage.language = 'english' &
& countrylanguage.isofficial = 'F';
+----------------------+
| name                 |
+----------------------+
| Aruba                |
| Netherlands Antilles |
| Bahrain              |
| Brunei               |
| Cook Islands         |
| Denmark              |
| Iceland              |
| Japan                |
| Kuwait               |
| Macao                |
| Monaco               |
| Maldives             |
| Malaysia             |
| Norway               |
| Puerto Rico          |
| Trinidad and Tobago  |
+----------------------+
```

```
mysql> SELECT name,population,gnp,gnpold FROM country WHERE gnp > 2 * gnpold;
+---------------------------------------+------------+---------+---------+
| name                                  | population | gnp     | gnpold  |
+---------------------------------------+------------+---------+---------+
| Congo, The Democratic Republic of the |   51654000 | 6964.00 | 2474.00 |
| Turkmenistan                          |    4459000 | 4397.00 | 2000.00 |
+---------------------------------------+------------+---------+---------+
```

```
mysql> SELECT c.continent,
    ->        MAX(c.gnp) AS richest_gnp,
    ->        MIN(c.gnp) AS poorest_gnp,
    ->        (SELECT name
    ->         FROM country
    ->         WHERE gnp = MAX(c.gnp) AND continent = c.continent
    ->         LIMIT 1) AS richest_country,
    ->        (SELECT name
    ->         FROM country
    ->         WHERE gnp = MIN(c.gnp) AND continent = c.continent
    ->         LIMIT 1) AS poorest_country
    -> FROM country c
    -> GROUP BY c.continent;
+---------------+-------------+-------------+-----------------+-------------------------------+
| continent     | richest_gnp | poorest_gnp | richest_country | poorest_country               |
+---------------+-------------+-------------+-----------------+-------------------------------+
| North America |  8510700.00 |        0.00 | United States   | Greenland                     |
| Asia          |  3787042.00 |        0.00 | Japan           | East Timor                    |
| Africa        |   116729.00 |        0.00 | South Africa    | British Indian Ocean Territory |
| Europe        |  2133367.00 |        0.00 | Germany         | Faroe Islands                 |
| South America |   776739.00 |        0.00 | Brazil          | Falkland Islands              |
| Oceania       |   351182.00 |        0.00 | Australia       | Cocos (Keeling) Islands       |
| Antarctica    |        0.00 |        0.00 | Antarctica      | Antarctica                    |
+---------------+-------------+-------------+-----------------+-------------------------------+
7 rows in set (0.00 sec)
```

```
mysql> SELECT name FROM country WHERE lifeexpectancy < (SELECT AVG(lifeexpectancy) FROM country)
    -> ;
+-------------------------------------+
| name                                |
+-------------------------------------+
| Afghanistan                         |
| Angola                              |
| Armenia                             |
| Azerbaijan                          |
| Burundi                             |
| Benin                               |
| Burkina Faso                        |
| Bangladesh                          |
| Bolivia                             |
| Brazil                              |
| Bhutan                              |
| Botswana                            |
| Central African Republic            |
| Côte d?Ivoire                       |
| Cameroon                            |
| Congo, The Democratic Republic of the |
| Congo                               |
| Comoros                             |
| Djibouti                            |
| Egypt                               |
| Eritrea                             |
| Western Sahara                      |
| Ethiopia                            |
| Gabon                               |
| Georgia                             |
| Ghana                               |
| Guinea                              |
| Gambia                              |
| Guinea-Bissau                       |
```

```
mysql> SELECT city.name, country.name FROM country JOIN city ON city.countrycode = country.code && co
untry.capital = city.id WHERE country.population > 100000000;
+------------+--------------------+
| name       | name               |
+------------+--------------------+
| Dhaka      | Bangladesh         |
| Brasília   | Brazil             |
| Peking     | China              |
| Jakarta    | Indonesia          |
| New Delhi  | India              |
| Tokyo      | Japan              |
| Abuja      | Nigeria            |
| Islamabad  | Pakistan           |
| Moscow     | Russian Federation |
| Washington | United States      |
+------------+--------------------+
10 rows in set, 1 warning (0.00 sec)
```

```
mysql> SELECT continent, COUNT(*) AS country_count FROM country GROUP BY continent ORDER BY country_c
ount DESC LIMIT 1;
+-----------+---------------+
| continent | country_count |
+-----------+---------------+
| Africa    |            58 |
+-----------+---------------+
1 row in set (0.00 sec)
```