**mysql> show databases;**

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

+--------------------+

6 rows in set (0.00 sec)

**mysql> use world;**

Database changed

**mysql> show tables;**

+-----------------+

| Tables\_in\_world |

+-----------------+

| city |

| country |

| countrylanguage |

+-----------------+

3 rows in set (0.00 sec)

**mysql> describe city;**

+-------------+----------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-------------+----------+------+-----+---------+----------------+

| ID | int | NO | PRI | NULL | auto\_increment |

| Name | char(35) | NO | | | |

| CountryCode | char(3) | NO | MUL | | |

| District | char(20) | NO | | | |

| Population | int | NO | | 0 | |

+-------------+----------+------+-----+---------+----------------+

5 rows in set (0.04 sec)

**mysql> desc country;**

+----------------+---------------------------------------------------------------------------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------------+---------------------------------------------------------------------------------------+------+-----+---------+-------+

| Code | char(3) | NO | PRI | | |

| Name | char(52) | NO | | | |

| Continent | enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') | NO | | Asia | |

| Region | char(26) | NO | | | |

| SurfaceArea | float(10,2) | NO | | 0.00 | |

| IndepYear | smallint | YES | | NULL | |

| Population | int | NO | | 0 | |

| LifeExpectancy | float(3,1) | YES | | NULL | |

| GNP | float(10,2) | YES | | NULL | |

| GNPOld | float(10,2) | YES | | NULL | |

| LocalName | char(45) | NO | | | |

| GovernmentForm | char(45) | NO | | | |

| HeadOfState | char(60) | YES | | NULL | |

| Capital | int | YES | | NULL | |

| Code2 | char(2) | NO | | | |

+----------------+---------------------------------------------------------------------------------------+------+-----+---------+-------+

15 rows in set (0.07 sec)

**mysql> desc countrylanguage;**

+-------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+---------------+------+-----+---------+-------+

| CountryCode | char(3) | NO | PRI | | |

| Language | char(30) | NO | PRI | | |

| IsOfficial | enum('T','F') | NO | | F | |

| Percentage | float(4,1) | NO | | 0.0 | |

+-------------+---------------+------+-----+---------+-------+

4 rows in set (0.01 sec)

**mysql> Select \* from city limit 10;**

+----+----------------+-------------+---------------+------------+

| ID | Name | CountryCode | District | Population |

+----+----------------+-------------+---------------+------------+

| 1 | Kabul | AFG | Kabol | 1780000 |

| 2 | Qandahar | AFG | Qandahar | 237500 |

| 3 | Herat | AFG | Herat | 186800 |

| 4 | Mazar-e-Sharif | AFG | Balkh | 127800 |

| 5 | Amsterdam | NLD | Noord-Holland | 731200 |

| 6 | Rotterdam | NLD | Zuid-Holland | 593321 |

| 7 | Haag | NLD | Zuid-Holland | 440900 |

| 8 | Utrecht | NLD | Utrecht | 234323 |

| 9 | Eindhoven | NLD | Noord-Brabant | 201843 |

| 10 | Tilburg | NLD | Noord-Brabant | 193238 |

+----+----------------+-------------+---------------+------------+

10 rows in set (0.00 sec)

**mysql> Select \* from city order by name limit 10;**

+------+------------------------+-------------+---------------------+------------+

| ID | Name | CountryCode | District | Population |

+------+------------------------+-------------+---------------------+------------+

| 670 | A CoruÇña (La CoruÇña) | ESP | Galicia | 243402 |

| 3097 | Aachen | DEU | Nordrhein-Westfalen | 243825 |

| 3318 | Aalborg | DNK | Nordjylland | 161161 |

| 2760 | Aba | NGA | Imo & Abia | 298900 |

| 1404 | Abadan | IRN | Khuzestan | 206073 |

| 395 | Abaetetuba | BRA | ParÇ­ | 111258 |

| 3683 | Abakan | RUS | Hakassia | 169200 |

| 1849 | Abbotsford | CAN | British Colombia | 105403 |

| 2747 | Abeokuta | NGA | Ogun | 427400 |

| 478 | Aberdeen | GBR | Scotland | 213070 |

+------+------------------------+-------------+---------------------+------------+

10 rows in set (0.05 sec)

**mysql> Select \* from city order by name desc limit 10;**

+------+-------------------------------+-------------+----------------+------------+

| ID | Name | CountryCode | District | Population |

+------+-------------------------------+-------------+----------------+------------+

| 698 | [San CristÇübal de] la Laguna | ESP | Canary Islands | 127945 |

| 3446 | Zytomyr | UKR | Zytomyr | 297000 |

| 28 | Zwolle | NLD | Overijssel | 105819 |

| 3145 | Zwickau | DEU | Saksi | 104146 |

| 2025 | Zunyi | CHN | Guizhou | 261862 |

| 2669 | Zumpango | MEX | MÇ¸xico | 99781 |

| 3756 | Zukovski | RUS | Moskova | 96500 |

| 3404 | Zonguldak | TUR | Zonguldak | 111542 |

| 26 | Zoetermeer | NLD | Zuid-Holland | 110214 |

| 3671 | Zlatoust | RUS | T¶?eljabinsk | 196900 |

+------+-------------------------------+-------------+----------------+------------+

10 rows in set (0.00 sec)

**mysql> select ID,name as City from city limit 10;**

+----+----------------+

| ID | City |

+----+----------------+

| 1 | Kabul |

| 2 | Qandahar |

| 3 | Herat |

| 4 | Mazar-e-Sharif |

| 5 | Amsterdam |

| 6 | Rotterdam |

| 7 | Haag |

| 8 | Utrecht |

| 9 | Eindhoven |

| 10 | Tilburg |

+----+----------------+

10 rows in set (0.00 sec)

**mysql> select population,name as City from city limit 10;**

+------------+----------------+

| population | City |

+------------+----------------+

| 1780000 | Kabul |

| 237500 | Qandahar |

| 186800 | Herat |

| 127800 | Mazar-e-Sharif |

| 731200 | Amsterdam |

| 593321 | Rotterdam |

| 440900 | Haag |

| 234323 | Utrecht |

| 201843 | Eindhoven |

| 193238 | Tilburg |

+------------+----------------+

10 rows in set (0.00 sec)

**mysql> select population,name as City from city order by population desc limit 10;**

+------------+-------------------+

| population | City |

+------------+-------------------+

| 10500000 | Mumbai (Bombay) |

| 9981619 | Seoul |

| 9968485 | SÇœo Paulo |

| 9696300 | Shanghai |

| 9604900 | Jakarta |

| 9269265 | Karachi |

| 8787958 | Istanbul |

| 8591309 | Ciudad de MÇ¸xico |

| 8389200 | Moscow |

| 8008278 | New York |

+------------+-------------------+

10 rows in set (0.00 sec)

**mysql> select population,name as City from city order by population asc limit 10;**

+------------+---------------------+

| population | City |

+------------+---------------------+

| 42 | Adamstown |

| 167 | West Island |

| 300 | Fakaofo |

| 455 | CittÇÿ del Vaticano |

| 503 | Bantam |

| 559 | Yaren |

| 595 | The Valley |

| 682 | Alofi |

| 700 | Flying Fish Cove |

| 800 | Kingston |

+------------+---------------------+

10 rows in set (0.00 sec)

mysql> Select \* from city where countrycode=IND ;

ERROR 1054 (42S22): Unknown column 'IND' in 'where clause'

**mysql> Select \* from city where countrycode='IND' limit 10 ;**

+------+--------------------+-------------+----------------+------------+

| ID | Name | CountryCode | District | Population |

+------+--------------------+-------------+----------------+------------+

| 1024 | Mumbai (Bombay) | IND | Maharashtra | 10500000 |

| 1025 | Delhi | IND | Delhi | 7206704 |

| 1026 | Calcutta [Kolkata] | IND | West Bengali | 4399819 |

| 1027 | Chennai (Madras) | IND | Tamil Nadu | 3841396 |

| 1028 | Hyderabad | IND | Andhra Pradesh | 2964638 |

| 1029 | Ahmedabad | IND | Gujarat | 2876710 |

| 1030 | Bangalore | IND | Karnataka | 2660088 |

| 1031 | Kanpur | IND | Uttar Pradesh | 1874409 |

| 1032 | Nagpur | IND | Maharashtra | 1624752 |

| 1033 | Lucknow | IND | Uttar Pradesh | 1619115 |

+------+--------------------+-------------+----------------+------------+

10 rows in set (0.00 sec)

mysql> Select \* from city where countrycode='Karnataka' limit 10 ;

Empty set (0.00 sec)

**mysql> Select \* from city where District='Karnataka' limit 10 ;**

+------+---------------+-------------+-----------+------------+

| ID | Name | CountryCode | District | Population |

+------+---------------+-------------+-----------+------------+

| 1030 | Bangalore | IND | Karnataka | 2660088 |

| 1060 | Hubli-Dharwad | IND | Karnataka | 648298 |

| 1074 | Mysore | IND | Karnataka | 480692 |

| 1102 | Belgaum | IND | Karnataka | 326399 |

| 1108 | Gulbarga | IND | Karnataka | 304099 |

| 1116 | Mangalore | IND | Karnataka | 273304 |

| 1119 | Davangere | IND | Karnataka | 266082 |

| 1122 | Bellary | IND | Karnataka | 245391 |

| 1161 | Bijapur | IND | Karnataka | 186939 |

| 1170 | Shimoga | IND | Karnataka | 179258 |

+------+---------------+-------------+-----------+------------+

10 rows in set (0.00 sec)

**mysql> Select \* from city where not countrycode='IND' order by District limit 10 ;**

+------+---------------+-------------+--------------------+------------+

| ID | Name | CountryCode | District | Population |

+------+---------------+-------------+--------------------+------------+

| 3563 | Ciudad Losada | VEN | | 134501 |

| 3294 | Kueishan | TWN | | 112195 |

| 3285 | Taiping | TWN | | 165524 |

| 3293 | Taliao | TWN | | 115897 |

| 909 | Sohumi | GEO | Abhasia [Aphazeti] | 111700 |

| 2812 | Abidjan | CIV | Abidjan | 2500000 |

| 1498 | Pescara | ITA | Abruzzit | 115698 |

| 65 | Abu Dhabi | ARE | Abu Dhabi | 398695 |

| 67 | al-Ayn | ARE | Abu Dhabi | 225970 |

| 982 | Banda Aceh | IDN | Aceh | 143409 |

+------+---------------+-------------+--------------------+------------+

10 rows in set (0.04 sec)

mysql> select count(name as City) from city group by Countrycode limit 20;

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 'as City) from city group by Countrycode limit 20' at line 1

**mysql> select count(name) from city group by Countrycode limit 20;**

+-------------+

| count(name) |

+-------------+

| 1 |

| 4 |

| 5 |

| 2 |

| 1 |

| 1 |

| 1 |

| 5 |

| 57 |

| 3 |

| 2 |

| 1 |

| 14 |

| 6 |

| 4 |

| 1 |

| 9 |

| 4 |

| 3 |

| 24 |

+-------------+

20 rows in set (0.02 sec)

**mysql> select count(name), CountryCode from city group by Countrycode limit 20;**

+-------------+-------------+

| count(name) | CountryCode |

+-------------+-------------+

| 1 | ABW |

| 4 | AFG |

| 5 | AGO |

| 2 | AIA |

| 1 | ALB |

| 1 | AND |

| 1 | ANT |

| 5 | ARE |

| 57 | ARG |

| 3 | ARM |

| 2 | ASM |

| 1 | ATG |

| 14 | AUS |

| 6 | AUT |

| 4 | AZE |

| 1 | BDI |

| 9 | BEL |

| 4 | BEN |

| 3 | BFA |

| 24 | BGD |

+-------------+-------------+

20 rows in set (0.00 sec)

**mysql> select count(name), CountryCode from city group by Countrycode order by count(name) desc limit 20;**

+-------------+-------------+

| count(name) | CountryCode |

+-------------+-------------+

| 363 | CHN |

| 341 | IND |

| 274 | USA |

| 250 | BRA |

| 248 | JPN |

| 189 | RUS |

| 173 | MEX |

| 136 | PHL |

| 93 | DEU |

| 85 | IDN |

| 81 | GBR |

| 70 | KOR |

| 67 | IRN |

| 64 | NGA |

| 62 | TUR |

| 59 | ESP |

| 59 | PAK |

| 58 | ITA |

| 57 | ARG |

| 57 | UKR |

+-------------+-------------+

20 rows in set (0.04 sec)

**mysql> select distinct countrycode,district,population from city order by population limit 10;**

+-------------+-------------+------------+

| countrycode | district | population |

+-------------+-------------+------------+

| PCN | ¶? | 42 |

| CCK | West Island | 167 |

| TKL | Fakaofo | 300 |

| VAT | ¶? | 455 |

| CCK | Home Island | 503 |

| NRU | ¶? | 559 |

| AIA | ¶? | 595 |

| NIU | ¶? | 682 |

| CXR | ¶? | 700 |

| NFK | ¶? | 800 |

+-------------+-------------+------------+

10 rows in set (0.00 sec)

**mysql> select distinct countrycode,district,population from city limit 10;**

+-------------+---------------+------------+

| countrycode | district | population |

+-------------+---------------+------------+

| AFG | Kabol | 1780000 |

| AFG | Qandahar | 237500 |

| AFG | Herat | 186800 |

| AFG | Balkh | 127800 |

| NLD | Noord-Holland | 731200 |

| NLD | Zuid-Holland | 593321 |

| NLD | Zuid-Holland | 440900 |

| NLD | Utrecht | 234323 |

| NLD | Noord-Brabant | 201843 |

| NLD | Noord-Brabant | 193238 |

+-------------+---------------+------------+

10 rows in set (0.00 sec)

mysql> select count(distinct country code) from city;

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 'code) from city' at line 1

**mysql> select count(distinct countrycode) from city;**

+-----------------------------+

| count(distinct countrycode) |

+-----------------------------+

| 232 |

+-----------------------------+

1 row in set (0.00 sec)

**mysql> select count(distinct id) from city;**

+--------------------+

| count(distinct id) |

+--------------------+

| 4079 |

+--------------------+

1 row in set (0.00 sec)

mysql> select population,name as city order by population desc limit 20;

ERROR 1054 (42S22): Unknown column 'population' in 'field list'

**mysql> select population,name as city from city order by population desc limit 20;**

+------------+---------------------+

| population | city |

+------------+---------------------+

| 10500000 | Mumbai (Bombay) |

| 9981619 | Seoul |

| 9968485 | SÇœo Paulo |

| 9696300 | Shanghai |

| 9604900 | Jakarta |

| 9269265 | Karachi |

| 8787958 | Istanbul |

| 8591309 | Ciudad de MÇ¸xico |

| 8389200 | Moscow |

| 8008278 | New York |

| 7980230 | Tokyo |

| 7472000 | Peking |

| 7285000 | London |

| 7206704 | Delhi |

| 6789479 | Cairo |

| 6758845 | Teheran |

| 6464693 | Lima |

| 6351600 | Chongqing |

| 6320174 | Bangkok |

| 6260862 | SantafÇ¸ de BogotÇ­ |

+------------+---------------------+

20 rows in set (0.00 sec)

**mysql> notee;**