

```
sh-4.2$ sudo su
[root@ip-10-1-11-11 bin]# cd /home/ec2-user/
[root@ip-10-1-11-11 ec2-user]# mysql -u root --password='re:St@rt!9'
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 14
Server version: 10.6.15-MariaDB MariaDB Server

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
MariaDB [(none)]> SHOW DATABASES;
```

```
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| world |
+-----+
5 rows in set (0.002 sec)
```

```
MariaDB [(none)]> SELECT * FROM world.country;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Code | Name | LocalName | Continent | Region | GovernmentForm | SurfaceArea | IndepYear | Population | LifeExpect |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ABW | Aruba | Aruba | North America | Caribbean | Nonmetropolitan Territory of The Netherlands | 193.00 | NULL | 103000 | 129 |
78.4 | 828.00 | 793.00 | Aruba | | | | | | | |
| AFG | Afghanistan | Afghanistan/Afghanistan | Asia | Southern and Central Asia | Islamic Emirate | 652090.00 | 1919 | 22720000 | 65 |
45.9 | 5976.00 | NULL | | | | | | | |
| AGO | Angola | Angola | Africa | Central Africa | Republic | 1246700.00 | 1975 | 12878000 | 53 |
38.3 | 6648.00 | 7984.00 | | | | | | | |
| AIA | Anguilla | Anguilla | North America | Caribbean | Dependent Territory of the UK | 96.00 | NULL | 8000 | 76 |
76.1 | 63.20 | NULL | | | | | | | |
| ALB | Albania | Shqipëria | Europe | Southern Europe | Republic | 28748.00 | 1912 | 3401200 | 72 |
71.6 | 3205.00 | 2500.00 | | | | | | | |
| AND | Andorra | Andorra | Europe | Southern Europe | Parliamentary Coprincipality | 468.00 | 1278 | 78000 | 83 |
83.5 | 1630.00 | NULL | | | | | | | |
| ANT | Netherlands Antilles | Nederlandse Antillen | North America | Caribbean | Nonmetropolitan Territory of The Netherlands | 800.00 | NULL | 217000 | 74 |
74.7 | 1941.00 | NULL | | | | | | | |
| ARE | United Arab Emirates | Al-Imarat al-'Arabiya al-Muttahida | Asia | Middle East | Emirate Federation | 83600.00 | 1971 | 2441000 | 74 |
74.1 | 37966.00 | 36846.00 | | | | | | | |
| ARG | Argentina | Argentina | South America | South America | Federal Republic | 2780400.00 | 1816 | 37032000 | 75 |
75.1 | 340238.00 | 323310.00 | | | | | | | |
| ARM | Armenia | Hajastan | Asia | Middle East | Republic | 29800.00 | 1991 | 3520000 | 66 |
66.4 | 1813.00 | 1627.00 | | | | | | | |
| ASM | American Samoa | Amerika Samoa | Oceania | Polynesia | US Territory | 199.00 | NULL | 68000 | 75 |
75.1 | 334.00 | NULL | | | | | | | |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| VCT | Saint Vincent and the Grenadines | Saint Vincent and the Grenadines | North America | Caribbean | Constitutional Monarchy | 388.00 | 1979 | 114000 | 72 |
72.3 | 285.00 | NULL | | | | | | | |
| VEN | Venezuela | Venezuela | South America | South America | Federal Republic | 912050.00 | 1811 | 24170000 | 73 |
73.1 | 95023.00 | 88434.00 | | | | | | | |
| VGB | Virgin Islands, British | British Virgin Islands | North America | Caribbean | Dependent Territory of the UK | 151.00 | NULL | 21000 | 75 |
75.4 | 612.00 | 573.00 | | | | | | | |
| VIR | Virgin Islands, U.S. | Virgin Islands of the United States | North America | Caribbean | US Territory | 347.00 | NULL | 93000 | 78 |
78.1 | 0.00 | NULL | | | | | | | |
| VNM | Vietnam | Việt Nam | Asia | Southeast Asia | Socialistic Republic | 331689.00 | 1945 | 79832000 | 69 |
69.3 | 21929.00 | 22834.00 | | | | | | | |
| VUT | Vanuatu | Vanuatu | Oceania | Melanesia | Republic | 12189.00 | 1980 | 190000 | 60 |
60.6 | 261.00 | 246.00 | | | | | | | |
| WLF | Wallis and Futuna | Wallis-et-Futuna | Oceania | Polynesia | Nonmetropolitan Territory of France | 200.00 | NULL | 15000 | 71 |
71.1 | 0.00 | NULL | | | | | | | |
| WSM | Samoa | Samoa | Oceania | Polynesia | Parliamentary Monarchy | 2831.00 | 1962 | 180000 | 69 |
69.2 | 141.00 | 157.00 | | | | | | | |
| YEM | Yemen | Al-Yaman | Asia | Middle East | Republic | 527968.00 | 1918 | 18112000 | 59 |
59.8 | 6041.00 | 5729.00 | | | | | | | |
| YUG | Yugoslavia | Jugoslavija | Europe | Southern Europe | Federal Republic | 102173.00 | 1918 | 10640000 | 72 |
72.4 | 17000.00 | NULL | | | | | | | |
| ZAF | South Africa | South Africa | Africa | Southern Africa | Republic | 1221037.00 | 1910 | 40377000 | 51 |
51.1 | 116729.00 | 129092.00 | | | | | | | |
| ZMB | Zambia | Zambia | Africa | Eastern Africa | Republic | 752618.00 | 1964 | 9169000 | 37 |
37.2 | 3377.00 | 3922.00 | | | | | | | |
| ZWE | Zimbabwe | Zimbabwe | Africa | Eastern Africa | Republic | 390757.00 | 1980 | 11669000 | 37 |
37.8 | 5951.00 | 8670.00 | | | | | | | |
```

```
239 rows in set (0.002 sec)
```

```
MariaDB [(none)]> SELECT Region, Name, Population FROM world.country WHERE Region = 'Australia and New Zealand' ORDER By Population desc;
```

Region	Name	Population
Australia and New Zealand	Australia	18886000
Australia and New Zealand	New Zealand	3862000
Australia and New Zealand	Christmas Island	2500
Australia and New Zealand	Norfolk Island	2000
Australia and New Zealand	Cocos (Keeling) Islands	600

5 rows in set (0.000 sec)

```
MariaDB [(none)]> SELECT Region, SUM(Population) FROM world.country WHERE Region = 'Australia and New Zealand' GROUP By Region ORDER By SUM(Population) desc;
```

Region	SUM(Population)
Australia and New Zealand	22753100

1 row in set (0.001 sec)

```
MariaDB [(none)]> SELECT Region, Name, Population, SUM(Population) OVER(partition by Region ORDER BY Population) as 'Running Total' FROM world.country WHERE Region = 'Australia and New Zealand';
```

Region	Name	Population	Running Total
Australia and New Zealand	Cocos (Keeling) Islands	600	600
Australia and New Zealand	Norfolk Island	2000	2600
Australia and New Zealand	Christmas Island	2500	5100
Australia and New Zealand	New Zealand	3862000	3867100
Australia and New Zealand	Australia	18886000	22753100

5 rows in set (0.001 sec)

```
MariaDB [(none)]> SELECT Region, Name, Population, SUM(Population) OVER(partition by Region ORDER BY Population) as 'Running Total', RANK() over(partition by region ORDER BY population) as 'Ranked' FROM world.country WHERE region = 'Australia and New Zealand';
```

Region	Name	Population	Running Total	Ranked
Australia and New Zealand	Cocos (Keeling) Islands	600	600	1
Australia and New Zealand	Norfolk Island	2000	2600	2
Australia and New Zealand	Christmas Island	2500	5100	3
Australia and New Zealand	New Zealand	3862000	3867100	4
Australia and New Zealand	Australia	18886000	22753100	5

5 rows in set (0.001 sec)

```
MariaDB [(none)]> select Region, Population, rank() over(partition by Region order by Population desc) as 'Ranked' from world.country;
```

Region	Population	Ranked
Antarctica	0	1
Antarctica	0	1
Antarctica	0	1
Antarctica	0	1
Antarctica	0	1
Australia and New Zealand	18886000	1
Australia and New Zealand	3862000	2
Australia and New Zealand	2500	3
Australia and New Zealand	2000	4
Australia and New Zealand	600	5
Baltic Countries	3698500	1
Baltic Countries	2424200	2
Baltic Countries	1439200	3
British Islands	59623400	1
British Islands	3775100	2
Caribbean	11201000	1
Caribbean	8495000	2
Caribbean	8222000	3
Caribbean	3869000	4
Caribbean	2583000	5
Caribbean	1295000	6
Caribbean	456000	7
Caribbean	395000	8
Caribbean	307000	9
Caribbean	270000	10

Western Europe	32300	1
Western Europe	34000	1
Caribbean	38000	1
Caribbean	38000	1
Nordic Countries	43000	1
North America	56000	1
Micronesia	64000	1
North America	65000	1
Polynesia	68000	1
Caribbean	68000	1
Caribbean	71000	1
Eastern Africa	77000	1
Micronesia	78000	1
Southern Europe	78000	1
Micronesia	83000	1
Caribbean	93000	1
Caribbean	94000	1
Polynesia	99000	1
Caribbean	103000	1
Caribbean	114000	1
Micronesia	119000	1
Central Africa	147000	1
Eastern Africa	149000	1
Caribbean	154000	1
Micronesia	168000	1
Polynesia	180000	1
South America	181000	1

```
MariaDB [(none)]> SELECT Region, Name, Population, RANK() OVER(partition by Region ORDER BY Population desc) as 'Ranked' FROM world.country order by Region, Ranked;
```

Region	Name	Population	Ranked
Antarctica	Antarctica	0	1
Antarctica	Heard Island and McDonald Islands	0	1
Antarctica	French Southern territories	0	1
Antarctica	Bouvet Island	0	1
Antarctica	South Georgia and the South Sandwich Islands	0	1
Australia and New Zealand	Australia	18886000	1
Australia and New Zealand	New Zealand	3862000	2
Australia and New Zealand	Christmas Island	2500	3
Australia and New Zealand	Norfolk Island	2000	4
Australia and New Zealand	Cocos (Keeling) Islands	600	5
Baltic Countries	Lithuania	3698500	1
Baltic Countries	Latvia	2424200	2
Baltic Countries	Estonia	1439200	3
British Islands	United Kingdom	59623400	1
British Islands	Ireland	3775100	2
Caribbean	Cuba	11201000	1
Caribbean	Dominican Republic	8495000	2
Caribbean	Haiti	8222000	3
Caribbean	Puerto Rico	3869000	4
Caribbean	Jamaica	2583000	5
Caribbean	Trinidad and Tobago	1295000	6
Caribbean	Guadeloupe	456000	7
Caribbean	Martinique	395000	8
Caribbean	Bahamas	307000	9
Caribbean	Barbados	270000	10
Caribbean	Netherlands Antilles	217000	11

Caribbean	Saint Lucia	154000	12
Caribbean	Saint Vincent and the Grenadines	114000	13
Caribbean	Aruba	103000	14
Caribbean	Grenada	94000	15
Caribbean	Virgin Islands, U.S.	93000	16
Caribbean	Dominica	71000	17
Caribbean	Antigua and Barbuda	68000	18
Caribbean	Saint Kitts and Nevis	38000	19
Caribbean	Cayman Islands	38000	19
Caribbean	Virgin Islands, British	21000	21
Caribbean	Turks and Caicos Islands	17000	22
Caribbean	Montserrat	11000	23
Caribbean	Anguilla	8000	24
Central Africa	Congo, The Democratic Republic of the	51654000	1
Central Africa	Cameroon	15085000	2
Central Africa	Angola	12878000	3
Central Africa	Chad	7651000	4
Central Africa	Central African Republic	3615000	5
Central Africa	Congo	2943000	6
Central Africa	Gabon	1226000	7
Central Africa	Equatorial Guinea	453000	8
Central Africa	Sao Tome and Principe	147000	9
Central America	Mexico	98881000	1
Central America	Guatemala	11385000	2
Central America	Honduras	6485000	3
Central America	El Salvador	6276000	4
Central America	Nicaragua	5074000	5
Central America	Costa Rica	4023000	6
Central America	Panama	2856000	7

Central America	Belize	241000	8
Eastern Africa	Ethiopia	62565000	1
Eastern Africa	Tanzania	33517000	2
Eastern Africa	Kenya	30080000	3
Eastern Africa	Uganda	21778000	4
Eastern Africa	Mozambique	19680000	5
Eastern Africa	Madagascar	15942000	6
Eastern Africa	Zimbabwe	11669000	7
Eastern Africa	Malawi	10925000	8
Eastern Africa	Somalia	10097000	9
Eastern Africa	Zambia	9169000	10
Eastern Africa	Rwanda	7733000	11
Eastern Africa	Burundi	6695000	12
Eastern Africa	Eritrea	3850000	13
Eastern Africa	Mauritius	1158000	14
Eastern Africa	Réunion	699000	15
Eastern Africa	Djibouti	638000	16
Eastern Africa	Comoros	578000	17
Eastern Africa	Mayotte	149000	18
Eastern Africa	Seychelles	77000	19
Eastern Africa	British Indian Ocean Territory	0	20
Eastern Asia	China	1277558000	1
Eastern Asia	Japan	126714000	2
Eastern Asia	South Korea	46844000	3
Eastern Asia	North Korea	24039000	4
Eastern Asia	Taiwan	22256000	5
Eastern Asia	Hong Kong	6782000	6
Eastern Asia	Mongolia	2662000	7
Eastern Asia	Macao	473000	8

Eastern Europe	Russian Federation	146934000	1
Eastern Europe	Ukraine	50456000	2
Eastern Europe	Poland	38653600	3
Eastern Europe	Romania	22455500	4
Eastern Europe	Czech Republic	10278100	5
Eastern Europe	Belarus	10236000	6
Eastern Europe	Hungary	10043200	7
Eastern Europe	Bulgaria	8190900	8
Eastern Europe	Slovakia	5398700	9
Eastern Europe	Moldova	4380000	10
Melanesia	Papua New Guinea	4807000	1
Melanesia	Fiji Islands	817000	2
Melanesia	Solomon Islands	444000	3
Melanesia	New Caledonia	214000	4
Melanesia	Vanuatu	190000	5
Micronesia	Guam	168000	1
Micronesia	Micronesia, Federated States of	119000	2
Micronesia	Kiribati	83000	3
Micronesia	Northern Mariana Islands	78000	4
Micronesia	Marshall Islands	64000	5
Micronesia	Palau	19000	6
Micronesia	Nauru	12000	7
Micronesia/Caribbean	United States Minor Outlying Islands	0	1
Middle East	Turkey	66591000	1
Middle East	Iraq	23115000	2
Middle East	Saudi Arabia	21607000	3
Middle East	Yemen	18112000	4
Middle East	Syria	16125000	5
Middle East	Azerbaijan	7734000	6

Middle East	Israel	6217000	7
Middle East	Jordan	5083000	8
Middle East	Georgia	4968000	9
Middle East	Armenia	3520000	10
Middle East	Lebanon	3282000	11
Middle East	Palestine	3101000	12
Middle East	Oman	2542000	13
Middle East	United Arab Emirates	2441000	14
Middle East	Kuwait	1972000	15
Middle East	Cyprus	754700	16
Middle East	Bahrain	617000	17
Middle East	Qatar	599000	18
Nordic Countries	Sweden	8861400	1
Nordic Countries	Denmark	5330000	2
Nordic Countries	Finland	5171300	3
Nordic Countries	Norway	4478500	4
Nordic Countries	Iceland	279000	5
Nordic Countries	Faroe Islands	43000	6
Nordic Countries	Svalbard and Jan Mayen	3200	7
North America	United States	278357000	1
North America	Canada	31147000	2
North America	Bermuda	65000	3
North America	Greenland	56000	4
North America	Saint Pierre and Miquelon	7000	5
Northern Africa	Egypt	68470000	1
Northern Africa	Algeria	31471000	2
Northern Africa	Sudan	29490000	3
Northern Africa	Morocco	28351000	4
Northern Africa	Tunisia	9586000	5
Northern Africa	Libyan Arab Jamahiriya	5605000	6

Northern Africa	Western Sahara	293000	7
Polynesia	French Polynesia	235000	1
Polynesia	Samoa	180000	2
Polynesia	Tonga	99000	3
Polynesia	American Samoa	68000	4
Polynesia	Cook Islands	20000	5
Polynesia	Wallis and Futuna	15000	6
Polynesia	Tuvalu	12000	7
Polynesia	Niue	2000	8
Polynesia	Tokelau	2000	8
Polynesia	Pitcairn	50	10
South America	Brazil	170115000	1
South America	Colombia	42321000	2
South America	Argentina	37032000	3
South America	Peru	25662000	4
South America	Venezuela	24170000	5
South America	Chile	15211000	6
South America	Ecuador	12646000	7
South America	Bolivia	8329000	8
South America	Paraguay	5496000	9
South America	Uruguay	3337000	10
South America	Guyana	861000	11
South America	Suriname	417000	12
South America	French Guiana	181000	13
South America	Falkland Islands	2000	14
Southeast Asia	Indonesia	212107000	1
Southeast Asia	Vietnam	79832000	2
Southeast Asia	Philippines	75967000	3
Southeast Asia	Thailand	61399000	4

Southeast Asia	Myanmar	45611000	5
Southeast Asia	Malaysia	22244000	6
Southeast Asia	Cambodia	11168000	7
Southeast Asia	Laos	5433000	8
Southeast Asia	Singapore	3567000	9
Southeast Asia	East Timor	885000	10
Southeast Asia	Brunei	328000	11
Southern Africa	South Africa	40377000	1
Southern Africa	Lesotho	2153000	2
Southern Africa	Namibia	1726000	3
Southern Africa	Botswana	1622000	4
Southern Africa	Swaziland	1008000	5
Southern and Central Asia	India	1013662000	1
Southern and Central Asia	Pakistan	156483000	2
Southern and Central Asia	Bangladesh	129155000	3
Southern and Central Asia	Iran	67702000	4
Southern and Central Asia	Uzbekistan	24318000	5
Southern and Central Asia	Nepal	23930000	6
Southern and Central Asia	Afghanistan	22720000	7
Southern and Central Asia	Sri Lanka	18827000	8
Southern and Central Asia	Kazakstan	16223000	9
Southern and Central Asia	Tajikistan	6188000	10
Southern and Central Asia	Kyrgyzstan	4699000	11
Southern and Central Asia	Turkmenistan	4459000	12
Southern and Central Asia	Bhutan	2124000	13
Southern and Central Asia	Maldives	286000	14
Southern Europe	Italy	57680000	1
Southern Europe	Spain	39441700	2
Southern Europe	Yugoslavia	10640000	3

Southern Europe	Greece	10545700	4
Southern Europe	Portugal	9997600	5
Southern Europe	Croatia	4473000	6
Southern Europe	Bosnia and Herzegovina	3972000	7
Southern Europe	Albania	3401200	8
Southern Europe	Macedonia	2024000	9
Southern Europe	Slovenia	1987800	10
Southern Europe	Malta	380200	11
Southern Europe	Andorra	78000	12
Southern Europe	San Marino	27000	13
Southern Europe	Gibraltar	25000	14
Southern Europe	Holy See (Vatican City State)	1000	15
Western Africa	Nigeria	111506000	1
Western Africa	Ghana	20212000	2
Western Africa	Côte d'Ivoire	14786000	3
Western Africa	Burkina Faso	11937000	4
Western Africa	Mali	11234000	5
Western Africa	Niger	10730000	6
Western Africa	Senegal	9481000	7
Western Africa	Guinea	7430000	8
Western Africa	Benin	6097000	9
Western Africa	Sierra Leone	4854000	10
Western Africa	Togo	4629000	11
Western Africa	Liberia	3154000	12
Western Africa	Mauritania	2670000	13
Western Africa	Gambia	1305000	14
Western Africa	Guinea-Bissau	1213000	15
Western Africa	Cape Verde	428000	16
Western Africa	Saint Helena	6000	17
Western Africa	Saint Helena	6000	17
Western Europe	Germany	82164700	1
Western Europe	France	59225700	2
Western Europe	Netherlands	15864000	3
Western Europe	Belgium	10239000	4
Western Europe	Austria	8091800	5
Western Europe	Switzerland	7160400	6
Western Europe	Luxembourg	435700	7
Western Europe	Monaco	34000	8
Western Europe	Liechtenstein	32300	9
+-----+-----+-----+-----+			
239 rows in set (0.001 sec)			