Insert, Update, and Delete Data in a Database

Scenario

The database operations team has created a relational database called **world** containing three tables: **city**, **country**, and **countrylanguage**. You have to validate the configuration of the database by running **INSERT**, **UPDATE**, and **DELETE** statements on the **country** table.

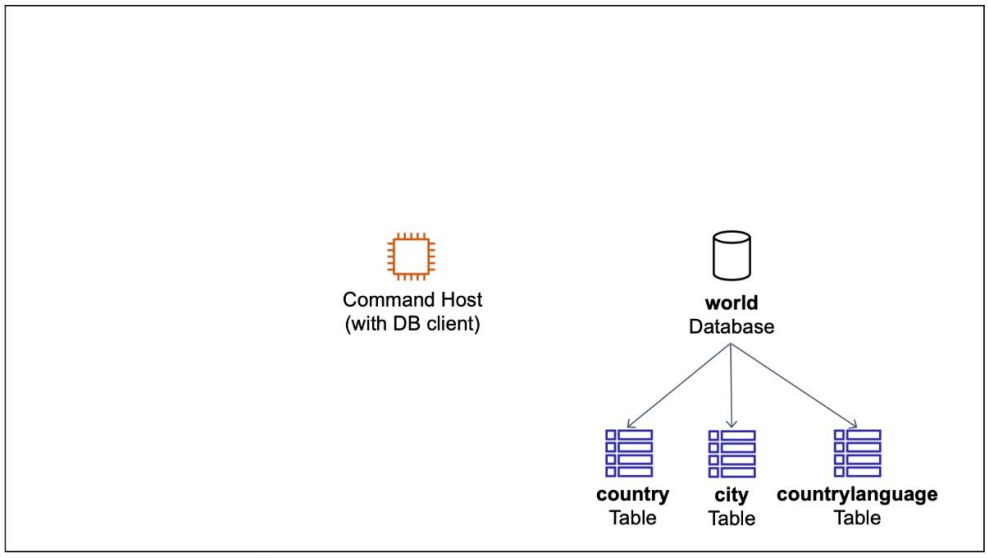
Lab overview and objectives

This lab demonstrates how to insert, update, delete, and import rows of data using structured query language (SQL).

After completing this lab, you will be able to:

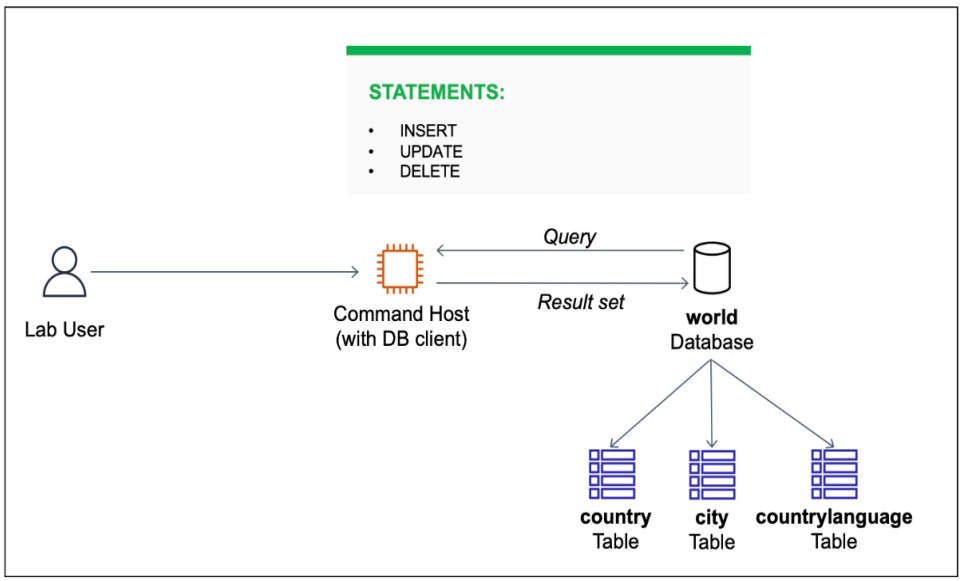
- Insert rows into a table
- Update rows in a table
- Delete rows from a table
- Import rows from a database backup file

When you start this lab, the following resources are already created for you:



A Command Host instance and world database containing three tables

At the end of this lab, your architecture will look like the following example:



A lab user is connected to a database instance. Insert, Update, and Delete operations are shown.

Sample data in this course is taken from Statistics Finland, general regional statistics, February 4, 2022.

1. Connect to a database

```
sh-4.2$ sudo su
[root@ip-10-1-11-78 bin]# cd /home/ec2-user/
[root@ip-10-1-11-78 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 15
Server version: 10.5.29-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| world              |
+--------------------+
4 rows in set (0.003 sec)

MariaDB [(none)]>
```

I connected to a database

Here's what happened:

1. Accessed the Command Host: I went to the AWS Management Console and chose the EC2 instance labeled "Command Host".
2. Connected to the instance: I used the Session Manager tab to connect to the instance and opened a terminal window.
3. Configured the terminal: I ran commands to set up the terminal and access the required tools.
4. Connected to the database: I used the mysql command with a username (root) and password (re:St@rt!9) to connect to the database instance.
5. Viewed existing databases: Ran the SHOW DATABASES; command to see the currently available databases.

What this means:

- I'm now connected to a database instance and can interact with it using SQL commands.
- I've seen the existing databases and can work with them as needed.

---

2. Insert data into a table

```
| information_schema |
| mysql              |
| performance_schema |
| world              |
+--------------------+
4 rows in set (0.003 sec)

MariaDB [(none)]> SELECT * FROM world.country;
Empty set (0.001 sec)

MariaDB [(none)]> INSERT INTO world.country VALUES ('IRL','Ireland','Europe','British Islands',70273.00,1921,3775100,76.8,75921.00,73132.00,'Ireland/ire','Republic',1447,'
IE');
Query OK, 1 row affected (0.003 sec)

MariaDB [(none)]>
MariaDB [(none)]> INSERT INTO world.country VALUES ('AUS','Australia','Oceania','Australia and New Zealand',7741220.00,1901,18886000,79.8,351182.00,392911.00,'Australia','
Constitutional Monarchy, Federation',135,'AU');
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]>
MariaDB [(none)]> SELECT * FROM world.country WHERE Code IN ('IRL', 'AUS');
+------+-----------+-----------+--------------------------+-------------+------------+------------+----------------+-----------+-----------+-------------+----------------
--------------------+---------+-------+
| Code | Name      | Continent | Region                   | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP       | GNPOld    | LocalName   | GovernmentForm
                   | Capital | Code2 |
+------+-----------+-----------+--------------------------+-------------+------------+------------+----------------+-----------+-----------+-------------+----------------
--------------------+---------+-------+
| AUS  | Australia | Oceania   | Australia and New Zealand |  7741220.00 |      1901 |   18886000 |           79.8 | 351182.00 | 392911.00 | Australia   | Constitutional M
onarchy, Federation |     135 | AU    |
| IRL  | Ireland   | Europe    | British Islands          |    70273.00 |      1921 |    3775100 |           76.8 |  75921.00 |  73132.00 | Ireland/ire | Republic
                   |    1447 | IE    |
+------+-----------+-----------+--------------------------+-------------+------------+------------+----------------+-----------+-----------+-------------+----------------
--------------------+---------+-------+
2 rows in set (0.000 sec)

MariaDB [(none)]>
```

I added data to a table

Here's what happened:

1. Checked if the table exists: Ran a command SELECT * FROM world.country; to see if the country table is there and what data it contains.
2. Inserted new data: Used the INSERT INTO command to add two new countries to the country table:
   - Ireland (IRL)
   - Australia (AUS)
3. Verified the data: Ran another command (SELECT * FROM world.country WHERE Code IN ('IRL', 'AUS')); to check if the two new rows were successfully added.

What this means:

- The country table now has two new rows with data about Ireland and Australia.
- The data includes information like: country code, name, continent, region, population, lifeexpectancy, gnp, gnpold, localname, government, capital and code2.

The table above on how it looks like now:

Everything looks good!

---

3. Update rows in a table

```
MariaDB [(none)]> UPDATE world.country SET Population = 0;
Query OK, 2 rows affected (0.001 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [(none)]> SELECT * FROM world.country;
+------+-----------+----------+-------------------------------+-------------+------------+----------------+----------+----------+-------------+----------------
--------------------+---------+-------+
| Code | Name      | Continent | Region                        | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP      | GNPOld   | LocalName   | GovernmentForm
                   | Capital | Code2 |
+------+-----------+----------+-------------------------------+-------------+------------+----------------+----------+----------+-------------+----------------
--------------------+---------+-------+
| AUS  | Australia | Oceania  | Australia and New Zealand |  7741220.00 |      1901 |          0 |           79.8 | 351182.00 | 392911.00 | Australia   | Constitutional M
onarchy, Federation |     135 | AU    |
| IRL  | Ireland   | Europe   | British Islands           |    70273.00 |      1921 |          0 |           76.8 |  75921.00 |  73132.00 | Ireland/ire | Republic
                   |    1447 | IE    |
+------+-----------+----------+-------------------------------+-------------+------------+----------------+----------+----------+-------------+----------------
--------------------+---------+-------+
2 rows in set (0.000 sec)

MariaDB [(none)]> UPDATE world.country SET Population = 100, SurfaceArea = 100;
Query OK, 2 rows affected (0.001 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [(none)]> SELECT * FROM world.country;
+------+-----------+----------+-------------------------------+-------------+------------+----------------+----------+----------+-------------+----------------
--------------------+---------+-------+
| Code | Name      | Continent | Region                        | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP      | GNPOld   | LocalName   | GovernmentForm
                   | Capital | Code2 |
+------+-----------+----------+-------------------------------+-------------+------------+----------------+----------+----------+-------------+----------------
--------------------+---------+-------+
| AUS  | Australia | Oceania  | Australia and New Zealand |      100.00 |      1901 |        100 |           79.8 | 351182.00 | 392911.00 | Australia   | Constitutional M
onarchy, Federation |     135 | AU    |
| IRL  | Ireland   | Europe   | British Islands           |      100.00 |      1921 |        100 |           76.8 |  75921.00 |  73132.00 | Ireland/ire | Republic
                   |    1447 | IE    |
+------+-----------+----------+-------------------------------+-------------+------------+----------------+----------+----------+-------------+----------------
--------------------+---------+-------+
2 rows in set (0.000 sec)

MariaDB [(none)]>
```

I updated data in a table

Here's what happened:

1. I updated the population of all countries: Ran an UPDATE statement to set the Population column to 0 for all rows in the country table.
2. Verified the update: Ran a SELECT statement to see the updated data, and indeed, the Population column for both countries (Australia and Ireland) was set to 0.
3. Updated multiple columns: Ran another UPDATE statement to set both the Population and SurfaceArea columns to 100 for all rows in the country table.
4. Verified the update again: Ran another SELECT statement to see the updated data, and indeed, both the Population and SurfaceArea columns for both countries were updated to 100.

What this means is:

- The data in the country table was modified using UPDATE statements.
- Without a WHERE clause, the UPDATE statement affects all rows in the table.
- I can used SELECT statements to verify that the data was updated correctly.

The table now looks like the one above:

---

4. Delete rows from a table

```
+---------------------+---------+-------+
2 rows in set (0.000 sec)

MariaDB [(none)]> SET FOREIGN_KEY_CHECKS = 0;
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> DELETE FROM world.country;
Query OK, 2 rows affected (0.001 sec)

MariaDB [(none)]> SELECT * FROM world.country;
Empty set (0.000 sec)

MariaDB [(none)]>
```

Deleted rows from a table

Here's what happened:

1. Foreign key checks were disabled using SET FOREIGN_KEY_CHECKS = 0; to temporarily bypass data consistency checks between tables.
2. All rows were deleted from the country table using DELETE FROM world.country;. Without a WHERE clause, all rows were affected.
3. The deletion was verified using SELECT * FROM world.country; to confirm all rows were deleted.

What this means:

- All data in the country table is gone.
- The table is now empty, with no rows.

Important note:

- Using DELETE statements without a WHERE clause can be risky, as it deletes all rows in the table.
- Backing up data before making large changes is a good practice.

The table is now empty, and the SELECT statement should return no results.

---

5. Import data using an SQL file

```
MariaDB [(none)]> QUIT;
Bye
[root@ip-10-1-11-180 ec2-user]# ls /home/ec2-user/world.sql
/home/ec2-user/world.sql
[root@ip-10-1-11-180 ec2-user]# ls
logs  world.sql
[root@ip-10-1-11-180 ec2-user]# mysql -u root --password='re:St@rt!9' < /home/ec2-user/world.sql
[root@ip-10-1-11-180 ec2-user]# USE world;
bash: USE: command not found
[root@ip-10-1-11-180 ec2-user]# SHOW TABLES;
bash: SHOW: command not found
[root@ip-10-1-11-180 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 16
Server version: 10.5.29-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> USE world;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [world]> SHOW TABLES;
+-----------------+
| Tables_in_world |
+-----------------+
| city            |
| country         |
| countrylanguage |
+-----------------+
3 rows in set (0.000 sec)

MariaDB [world]>
```

```
MariaDB [world]> SELECT * FROM country;
+------+----------------------------------------------+---------------+---------------------------+-------------+-----------+------------+----------------+-----------+---
---------+--------------------------------------------+------------------------------------------+---------+-------+
| Code | Name                                         | Continent     | Region                    | SurfaceArea | IndepYear | Population | LifeExpectancy | GNP       | GN
POld     | LocalName                                    | GovernmentForm                            | Capital | Code2 |
+------+----------------------------------------------+---------------+---------------------------+-------------+-----------+------------+----------------+-----------+---
---------+--------------------------------------------+------------------------------------------+---------+-------+
| ABW  | Aruba                                        | North America | Caribbean                 |      193.00 |      NULL |     103000 |           78.4 |    828.00 |
  793.00 | Aruba                                        | Nonmetropolitan Territory of The Netherlands |     129 | AW    |
| AFG  | Afghanistan                                  | Asia          | Southern and Central Asia |   652090.00 |      1919 |   22720000 |           45.9 |   5976.00 |
    NULL | Afganistan/Afqanestan                        | Islamic Emirate                           |       1 | AF    |
| AGO  | Angola                                       | Africa        | Central Africa            |  1246700.00 |      1975 |   12878000 |           38.3 |   6648.00 |
 7984.00 | Angola                                       | Republic                                  |      56 | AO    |
| AIA  | Anguilla                                     | North America | Caribbean                 |       96.00 |      NULL |       8000 |           76.1 |     63.20 |
    NULL | Anguilla                                     | Dependent Territory of the UK             |      62 | AI    |
| ALB  | Albania                                      | Europe        | Southern Europe           |    28748.00 |      1912 |    3401200 |           71.6 |   3205.00 |
 2500.00 | Shqipëria                                    | Republic                                  |      34 | AL    |
| AND  | Andorra                                      | Europe        | Southern Europe           |      468.00 |      1278 |      78000 |           83.5 |   1630.00 |
    NULL | Andorra                                      | Parliamentary Coprincipality              |      55 | AD    |
| ANT  | Netherlands Antilles                         | North America | Caribbean                 |      800.00 |      NULL |     217000 |           74.7 |   1941.00 |
    NULL | Nederlandse Antillen                         | Nonmetropolitan Territory of The Netherlands |      33 | AN    |
| ARE  | United Arab Emirates                         | Asia          | Middle East               |    83600.00 |      1971 |    2441000 |           74.1 |  37966.00 |
36846.00 | Al-Imarat al-´Arabiya al-Muttahida           | Emirate Federation                        |      65 | AE    |
| ARG  | Argentina                                    | South America | South America             |  2780400.00 |      1816 |   37032000 |           75.1 | 340238.00 | 3
23310.00 | Argentina                                    | Federal Republic                          |      69 | AR    |
| ARM  | Armenia                                      | Asia          | Middle East               |    29800.00 |      1991 |    3520000 |           66.4 |   1813.00 |
 1627.00 | Hajastan                                     | Republic                                  |     126 | AM    |
| ASM  | American Samoa                               | Oceania       | Polynesia                 |      199.00 |      NULL |      68000 |           75.1 |    334.00 |
    NULL | Amerika Samoa                                | US Territory                              |      54 | AS    |
| ATA  | Antarctica                                   | Antarctica    | Antarctica                | 13120000.00 |      NULL |          0 |           NULL |      0.00 |
    NULL | –                                            | Co-administrated                          |    NULL | AQ    |
| ATF  | French Southern territories                  | Antarctica    | Antarctica                |     7780.00 |      NULL |          0 |           NULL |      0.00 |
    NULL | Terres australes françaises                  | Nonmetropolitan Territory of France       |    NULL | TF    |
| ATG  | Antigua and Barbuda                          | North America | Caribbean                 |      442.00 |      1981 |      68000 |           70.5 |    612.00 |
  584.00 | Antigua and Barbuda                          | Constitutional Monarchy                   |      63 | AG    |
| AUT  | Austria                                      | Europe        | Western Europe            |    83859.00 |      1918 |    8091800 |           77.7 | 211860.00 | 2
```

```
| WSM  | Samoa                                        | Oceania       | Polynesia                 |     2831.00 |      1962 |     180000 |           69.2 |    141.00 |
  157.00 | Samoa                                        | Parlementary Monarchy                     |    3169 | WS    |
| YEM  | Yemen                                        | Asia          | Middle East               |   527968.00 |      1918 |   18112000 |           59.8 |   6041.00 |
 5729.00 | Al-Yaman                                     | Republic                                  |    1780 | YE    |
| YUG  | Yugoslavia                                   | Europe        | Southern Europe           |   102173.00 |      1918 |   10640000 |           72.4 |  17000.00 |
    NULL | Jugoslavija                                  | Federal Republic                          |    1792 | YU    |
| ZAF  | South Africa                                 | Africa        | Southern Africa           |  1221037.00 |      1910 |   40377000 |           51.1 | 116729.00 | 1
29092.00 | South Africa                                 | Republic                                  |     716 | ZA    |
| ZMB  | Zambia                                       | Africa        | Eastern Africa            |   752618.00 |      1964 |    9169000 |           37.2 |   3377.00 |
 3922.00 | Zambia                                       | Republic                                  |    3162 | ZM    |
| ZWE  | Zimbabwe                                     | Africa        | Eastern Africa            |   390757.00 |      1980 |   11669000 |           37.8 |   5951.00 |
 8670.00 | Zimbabwe                                     | Republic                                  |    4068 | ZW    |
+------+----------------------------------------------+---------------+---------------------------+-------------+-----------+------------+----------------+-----------+---
---------+--------------------------------------------+------------------------------------------+---------+-------+

237 rows in set (0.001 sec)

MariaDB [world]>
```

```
MariaDB [world]> SELECT * FROM city;
+------+-----------------------------------+-------------+----------------------+------------+
| 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 |
|   11 | Groningen                         | NLD         | Groningen            |     172701 |
|   12 | Breda                             | NLD         | Noord-Brabant        |     160398 |
|   13 | Apeldoorn                         | NLD         | Gelderland           |     153491 |
|   14 | Nijmegen                          | NLD         | Gelderland           |     152463 |
|   15 | Enschede                          | NLD         | Overijssel           |     149544 |
|   16 | Haarlem                           | NLD         | Noord-Holland        |     148772 |
|   17 | Almere                            | NLD         | Flevoland            |     142465 |
|   18 | Arnhem                            | NLD         | Gelderland           |     138020 |
|   19 | Zaanstad                          | NLD         | Noord-Holland        |     135621 |
|   20 | ´s-Hertogenbosch                  | NLD         | Noord-Brabant        |     129170 |
|   21 | Amersfoort                        | NLD         | Utrecht              |     126270 |
|   22 | Maastricht                        | NLD         | Limburg              |     122087 |
|   23 | Dordrecht                         | NLD         | Zuid-Holland         |     119811 |
|   24 | Leiden                            | NLD         | Zuid-Holland         |     117196 |
|   25 | Haarlemmermeer                    | NLD         | Noord-Holland        |     110722 |
|   26 | Zoetermeer                        | NLD         | Zuid-Holland         |     110214 |
|   27 | Emmen                             | NLD         | Drenthe              |     105853 |
|   28 | Zwolle                            | NLD         | Overijssel           |     105819 |
|   29 | Ede                               | NLD         | Gelderland           |     101574 |
|   30 | Delft                             | NLD         | Zuid-Holland         |      95268 |
|   31 | Heerlen                           | NLD         | Limburg              |      95052 |
```

Imported data from an SQL file

Here's what happened:

1. Exited the MySQL terminal: The MySQL terminal was closed using the QUIT; command.
2. Verified the SQL file: The world.sql file was confirmed to be present in the /home/ec2-user/ directory.
3. Imported data from the SQL file: The mysql command was used to execute the SQL statements in the world.sql file, which:
   - Added two new tables (city and countrylanguage) to the database.
   - Inserted data into all three tables (country, city, and countrylanguage).
4. Reconnected to the database: The MySQL terminal was reopened and connected to the database.
5. Verified the tables and data: The SHOW TABLES; command was used to confirm the presence of the three tables, and SELECT * FROM country; was used to verify that data was loaded successfully into the country table.

What this means:

- The database now has three tables with sample data.
- The country table has been populated with more entries.
- The city and countrylanguage tables have been created and populated with data.

The SQL file was used to quickly and efficiently load sample data into the database

I needed to view data in two tables. Here's what I did:

```
MariaDB [world]> SELECT * FROM city;
+------+-----------------------------------+-------------+-----------------------+------------+
| 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 |
|   11 | Groningen                         | NLD         | Groningen             |     172701 |
|   12 | Breda                             | NLD         | Noord-Brabant         |     160398 |
|   13 | Apeldoorn                         | NLD         | Gelderland            |     153491 |
|   14 | Nijmegen                          | NLD         | Gelderland            |     152463 |
|   15 | Enschede                          | NLD         | Overijssel            |     149544 |
|   16 | Haarlem                           | NLD         | Noord-Holland         |     148772 |
|   17 | Almere                            | NLD         | Flevoland             |     142465 |
|   18 | Arnhem                            | NLD         | Gelderland            |     138020 |
|   19 | Zaanstad                          | NLD         | Noord-Holland         |     135621 |
|   20 | 's-Hertogenbosch                  | NLD         | Noord-Brabant         |     129170 |
|   21 | Amersfoort                        | NLD         | Utrecht               |     126270 |
|   22 | Maastricht                        | NLD         | Limburg               |     122087 |
|   23 | Dordrecht                         | NLD         | Zuid-Holland          |     119811 |
|   24 | Leiden                            | NLD         | Zuid-Holland          |     117196 |
|   25 | Haarlemmermeer                    | NLD         | Noord-Holland         |     110722 |
|   26 | Zoetermeer                        | NLD         | Zuid-Holland          |     110214 |
|   27 | Emmen                             | NLD         | Drenthe               |     105853 |
|   28 | Zwolle                            | NLD         | Overijssel            |     105819 |
|   29 | Ede                               | NLD         | Gelderland            |     101574 |
|   30 | Delft                             | NLD         | Zuid-Holland          |      95268 |
|   31 | Heerlen                           | NLD         | Limburg               |      95052 |
| 4074 | Gaza                              | PSE         | Gaza                  |     353632 |
| 4075 | Khan Yunis                        | PSE         | Khan Yunis            |     123175 |
| 4076 | Hebron                            | PSE         | Hebron                |     119401 |
| 4077 | Jabaliya                          | PSE         | North Gaza            |     113901 |
| 4078 | Nablus                            | PSE         | Nablus                |     100231 |
| 4079 | Rafah                             | PSE         | Rafah                 |      92020 |
+------+-----------------------------------+-------------+-----------------------+------------+
4079 rows in set (0.003 sec)
```

Viewed city table data: I ran SELECT * FROM city; to see the data in the city table.

```
MariaDB [world]> SELECT * FROM countrylanguage;
+-------------+--------------------------+------------+------------+
| CountryCode | Language                 | IsOfficial | Percentage |
+-------------+--------------------------+------------+------------+
| ABW         | Dutch                    | T          |        5.3 |
| ABW         | English                  | F          |        9.5 |
| ABW         | Papiamento               | F          |       76.7 |
| ABW         | Spanish                  | F          |        7.4 |
| AFG         | Balochi                  | F          |        0.9 |
| AFG         | Dari                     | T          |       32.1 |
| AFG         | Pashto                   | T          |       52.4 |
| AFG         | Turkmenian               | F          |        1.9 |
| AFG         | Uzbek                    | F          |        8.8 |
| AGO         | Ambo                     | F          |        2.4 |
| AGO         | Chokwe                   | F          |        4.2 |
| AGO         | Kongo                    | F          |       13.2 |
| AGO         | Luchazi                  | F          |        2.4 |
| ZWE         | English                  | T          |        2.2 |
| ZWE         | Ndebele                  | F          |       16.2 |
| ZWE         | Nyanja                   | F          |        2.2 |
| ZWE         | Shona                    | F          |       72.1 |
+-------------+--------------------------+------------+------------+
984 rows in set (0.001 sec)

MariaDB [world]>
```

Viewed countrylanguage table data: I ran SELECT * FROM countrylanguage; to see the data in the countrylanguage table.

Why?
- To check if the data was imported correctly into these tables.

By running these commands, I'll be able to see the data in the city and countrylanguage tables.

Conclusion

I have completed database tasks successfully:
1. Inserted rows: Added new data to a table.
2. Updated rows: Changed existing data in a table.
3. Deleted rows: Removed data from a table.
4. Imported rows: Loaded data from a backup file into the database.

I completed these tasks and now have hands-on experience with basic database operations!
