Data Warehousing with IBM Cloud Db2 Warehouse

Cloud Computing

Nalaya Thiran Project

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Phase 4

The IBM DB2 lite version, as of phase 2, only allows us to import data, perform ETL procedures, and query datasets. With these constraints, we are unable to perform additional operations such as adding users and granting database rights so that they can explore and analyze our data for business insights.

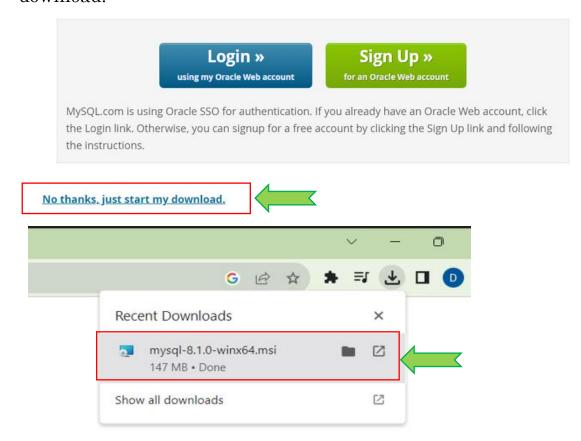
So we downloaded and installed MySQL Community Server to create a server and generate a database, as well as DBeaver to run SQL queries on the datasets and create new users for the data architects.

➤ The first step is search mysql community server in google and choose the correct website.

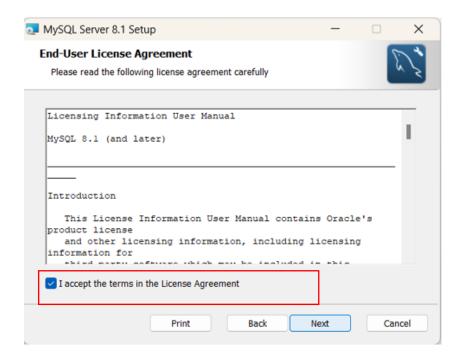


• After entering into the website click the download button of windows MSI Installer.

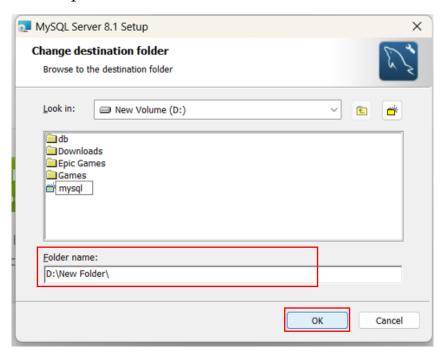
• Avoid logging in and click the no thanks button and start the download.

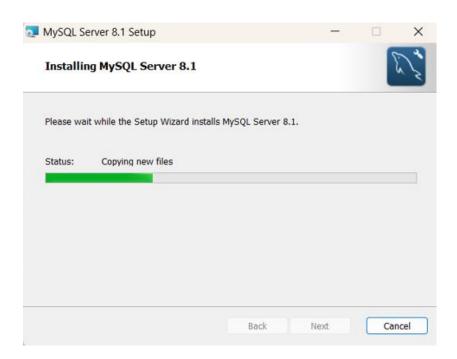


• Accept the agreement and click next.

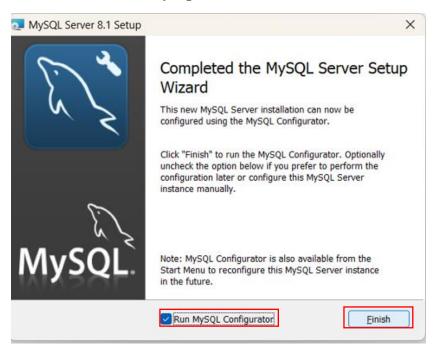


• Edit the path.

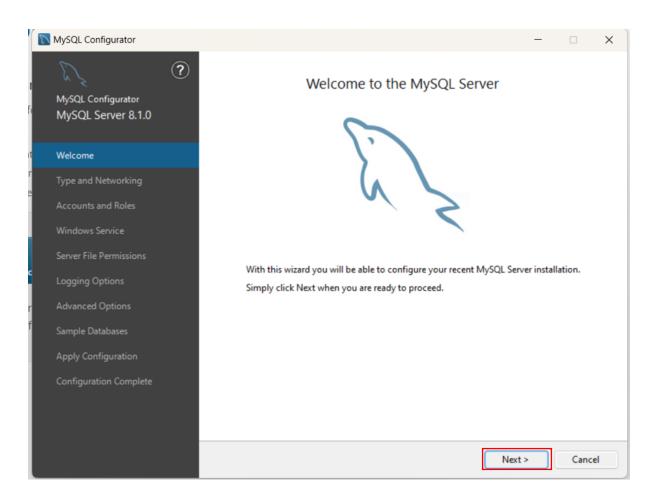




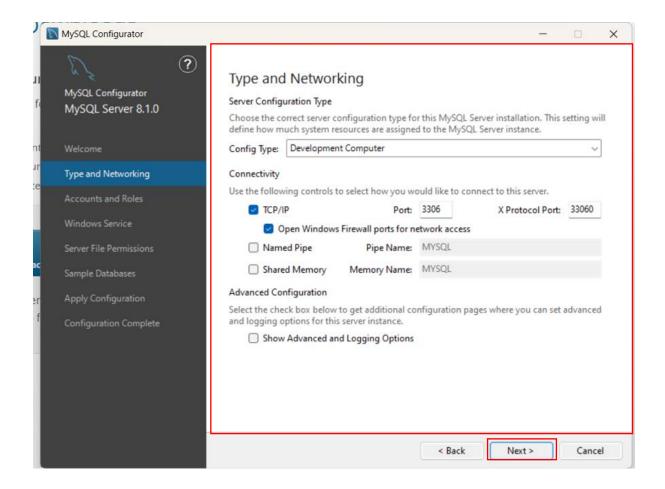
• Finish and run mysql.



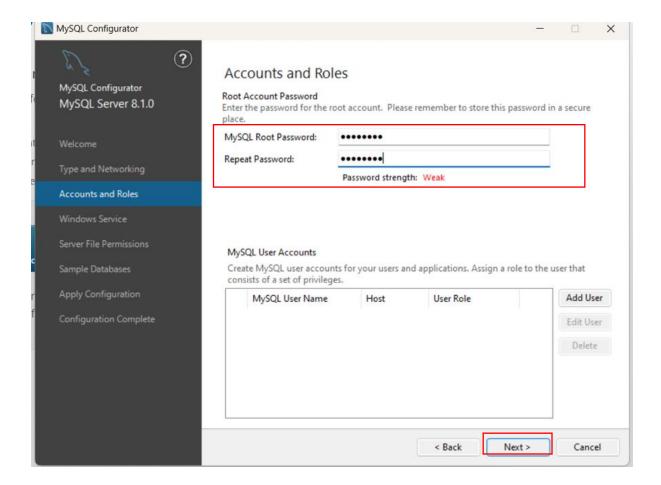
> The second step is to run the MySQL configurtor.



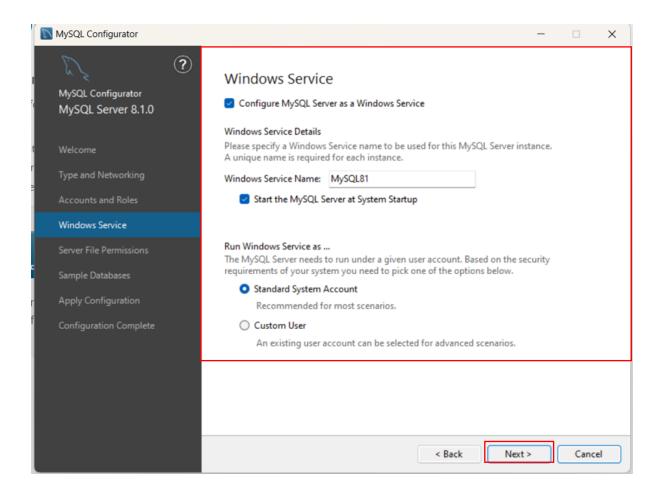
• Fill the correct details and click next.



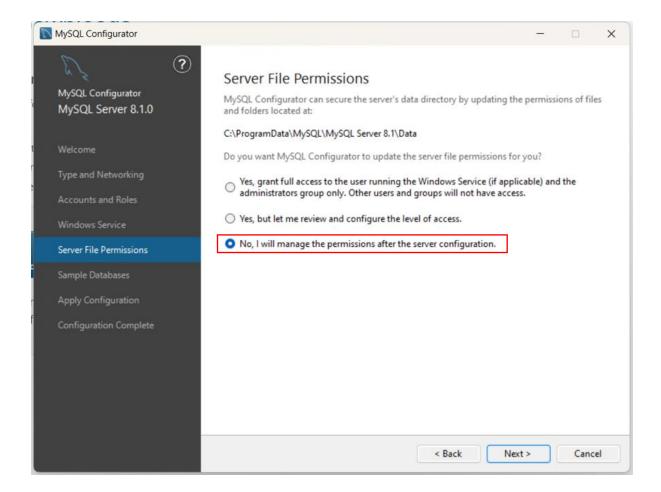
• Create a password for the database and root is the default username for the database.



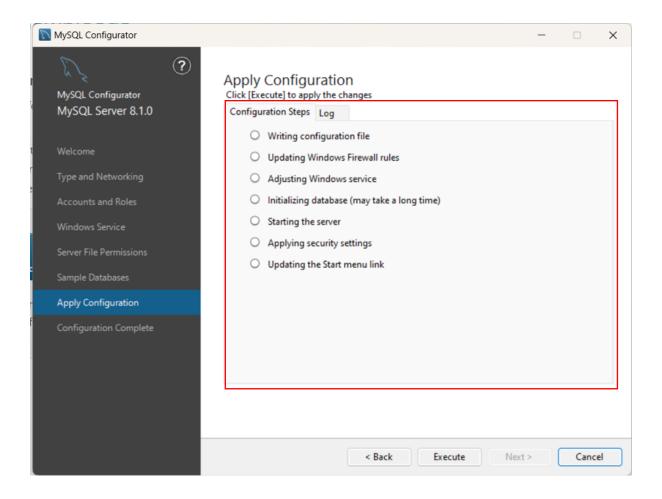
• Choose Standard System Account and click next.



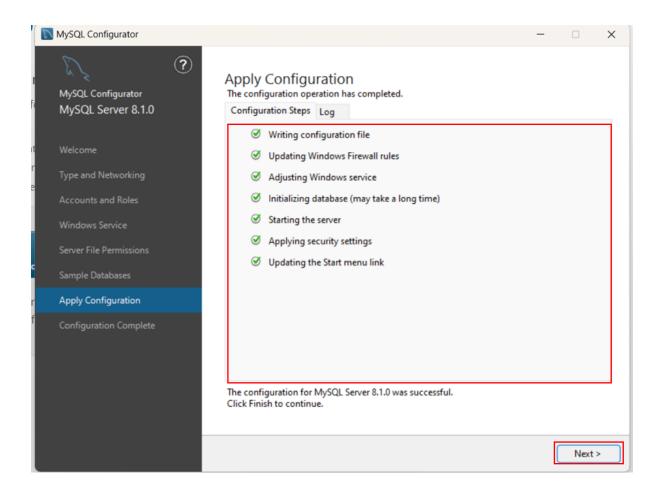
• Choose the last option so that we can manage the permissions of the users and click next.



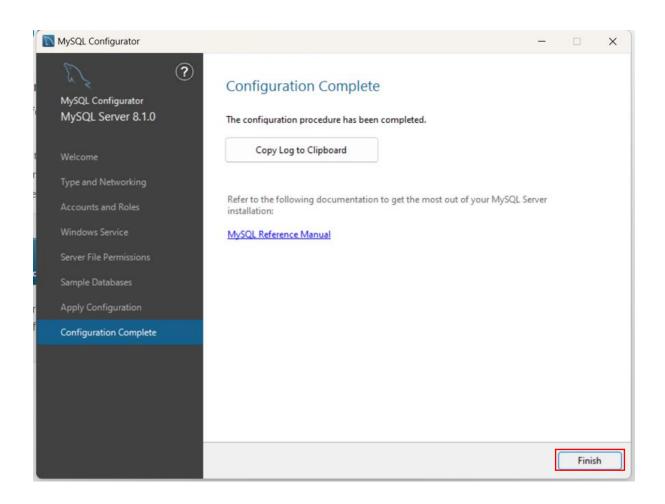
• Now apply configuration.

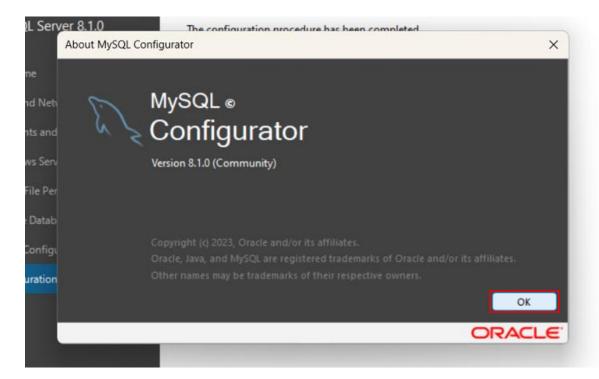


• After the configuration is finished click next.

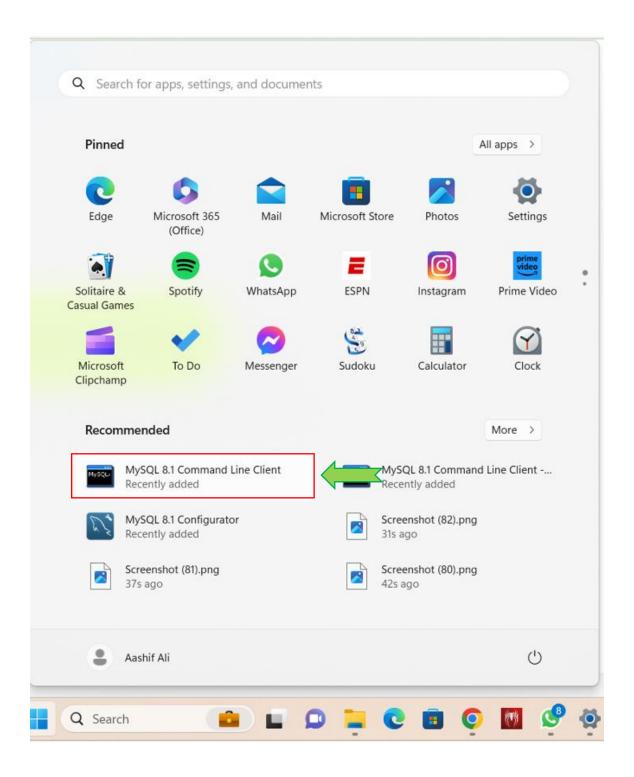


• Now click the finish and ok buttons.



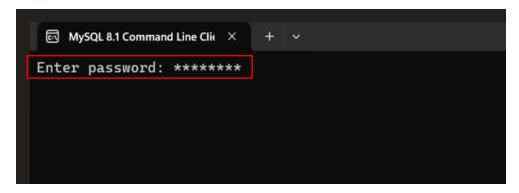


> The thirdstep is to work with the MySQL Command Line Client.



• Open the MySQL 8.1 Command Line Client.

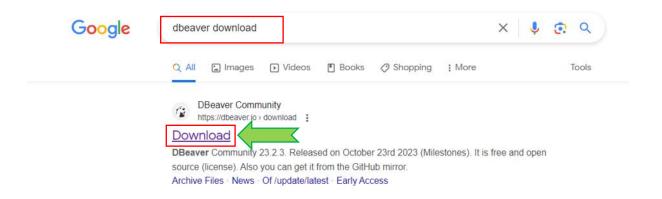
• Enter the password



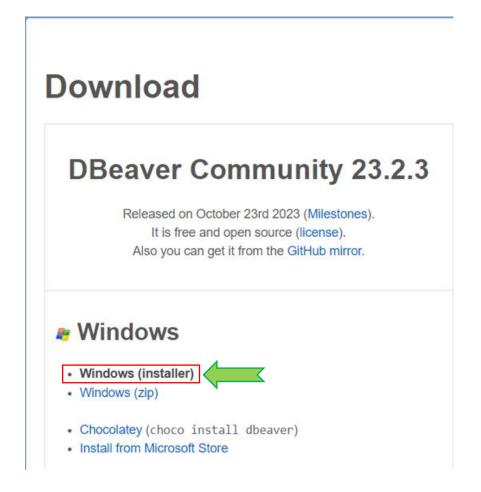
• Now create a database called dash using queries.

```
MySQL 8.1 Command Line Cliϵ × + ∨
Enter password: ******
Welcome to the MySQL monitor. Commands end with ; or \gray{g}.
Your MySQL connection id is 10
Server version: 8.1.0 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database dash;
MySQL 8.1 Command Line Clie ×
Enter password: ******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.1.0 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database dash;
Query OK, 1 row affected (0.01 sec)
mysql>
```

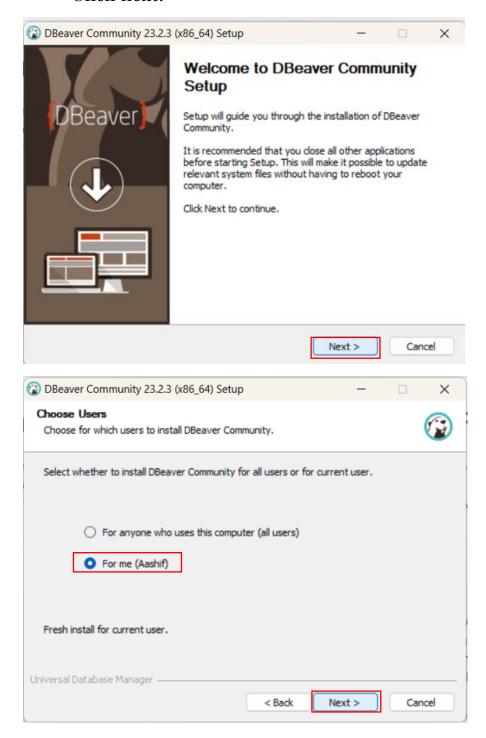
> The fourth step is to download the dbeaver community for querying and user related processes.

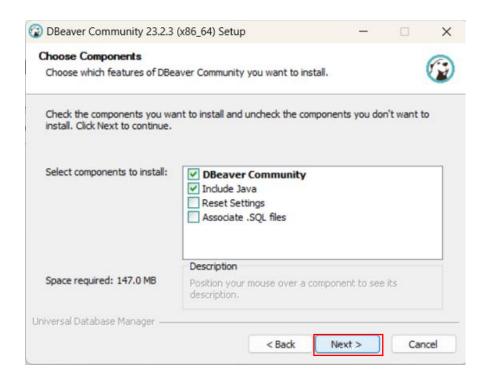


• Click Windows (installer)

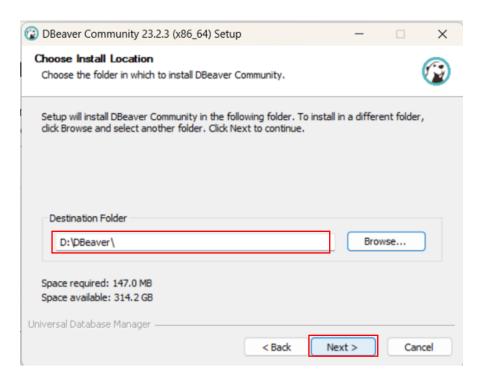


• Click next.

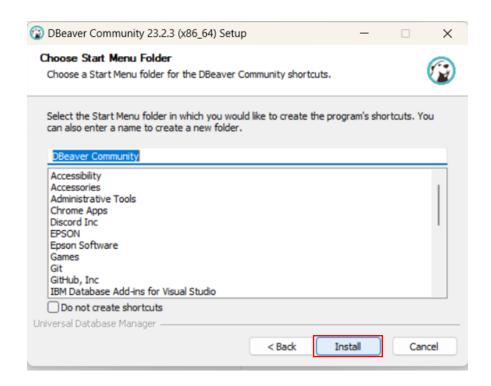




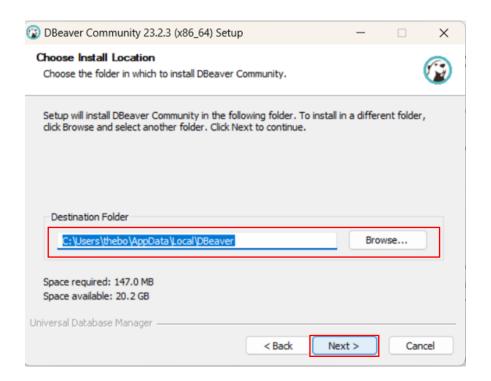
• Select the path and click next.

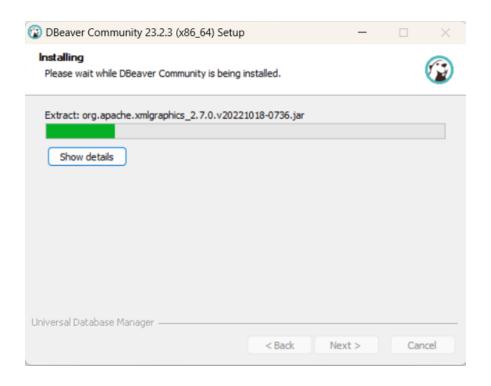


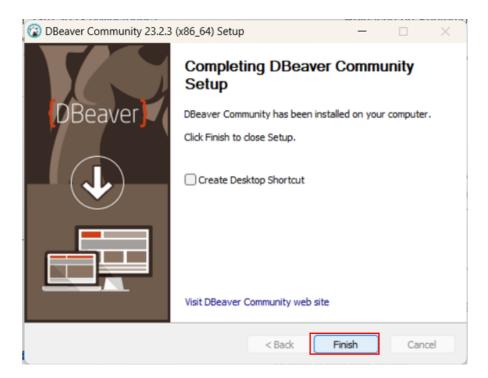
• Now install DBeaver.



• Choose install location.





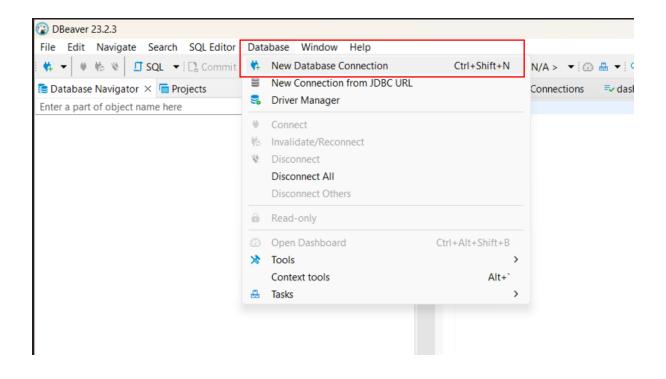


• Now the setup is finished.

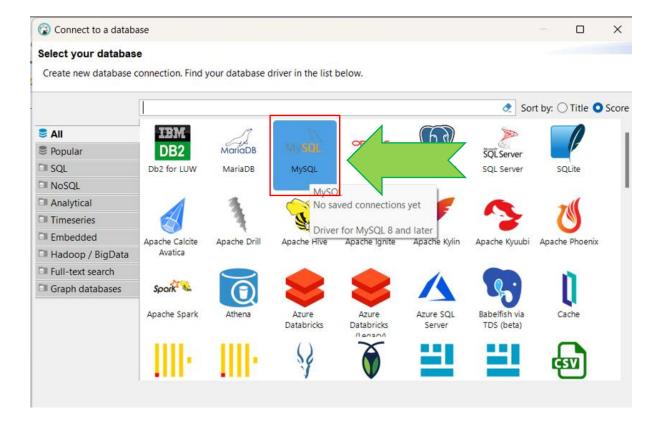
- ➤ The fifth step is to connect the database with the DBeaver community.
- Open the DBeaver community.



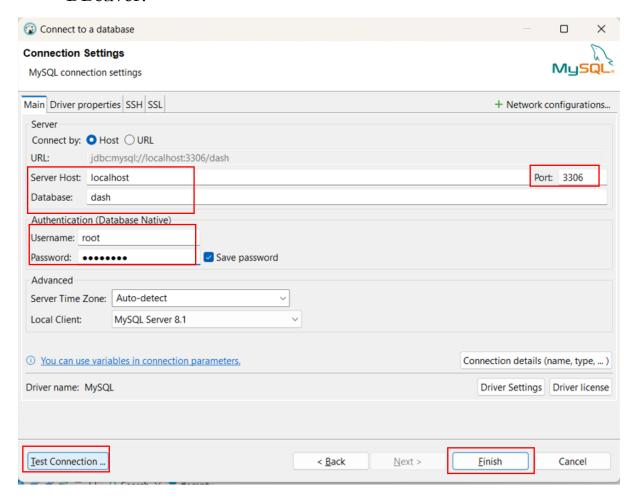
- Click database
- In that click New Database Connection.



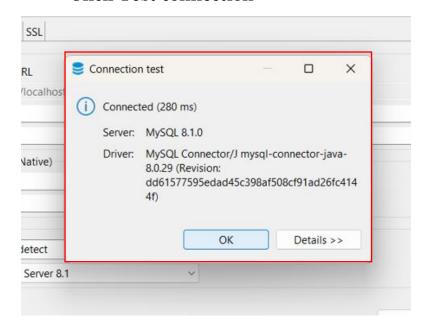
• Choose MySQL



• Fill the correct MySQL server details to connect with the DBeaver.

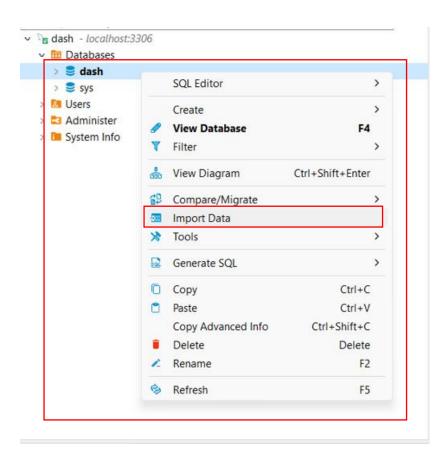


Click Test connection



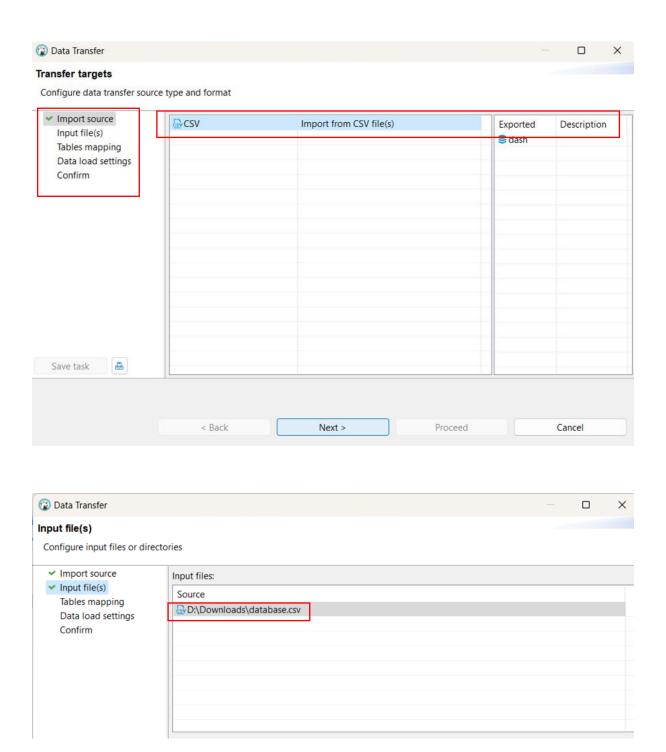
• Now the Database is successfully connected.

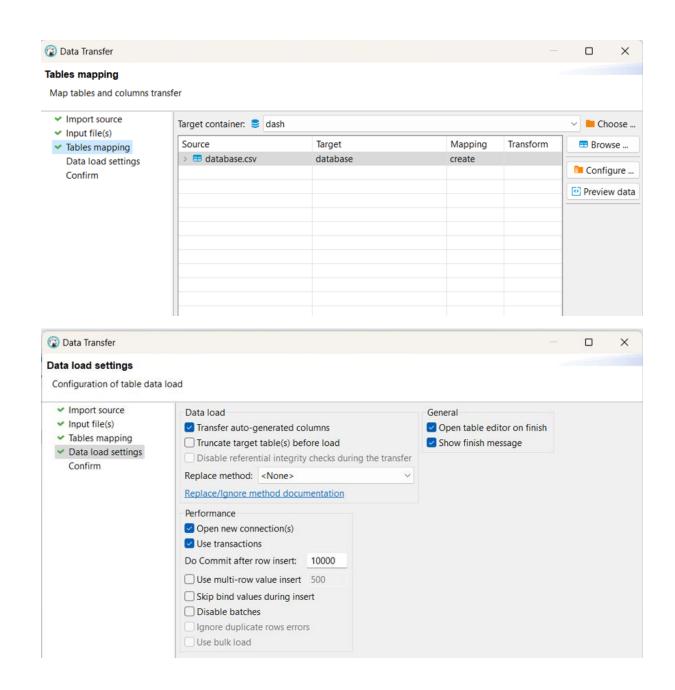
- > The sixth step is the ETL process.
- We can import the necessary datasets.

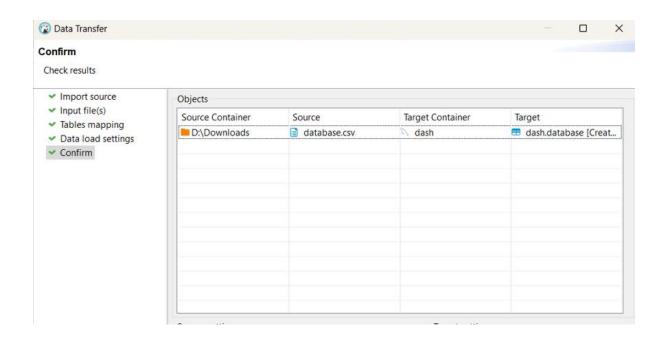


• Right click the database and click the import data.

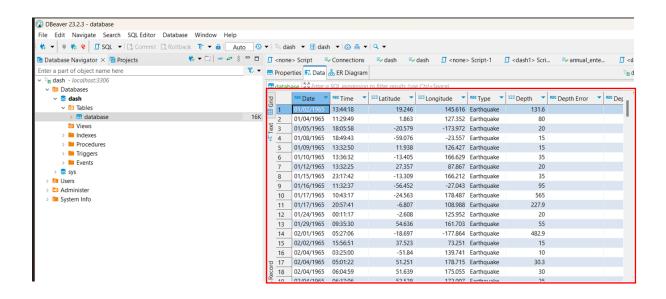
Click next and choose the dataset.



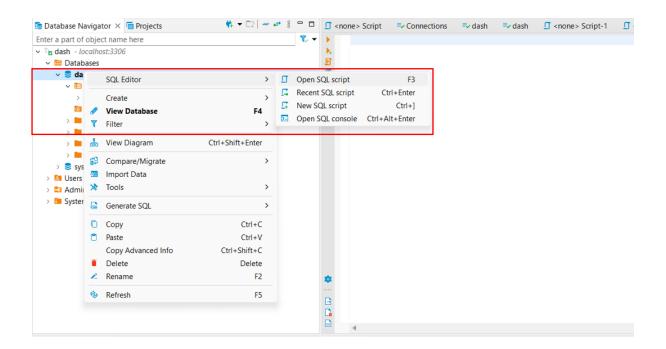




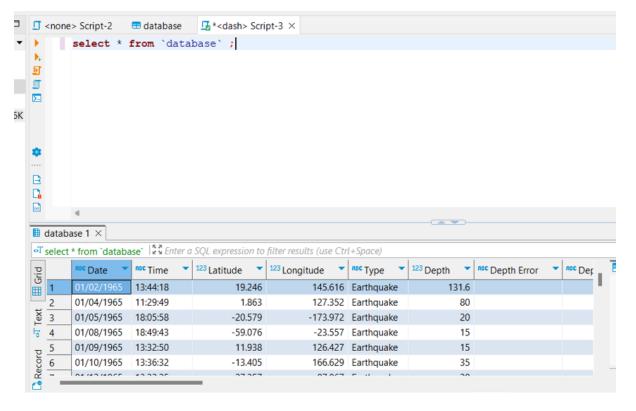
• Click F4 to view the imported data in a table form.

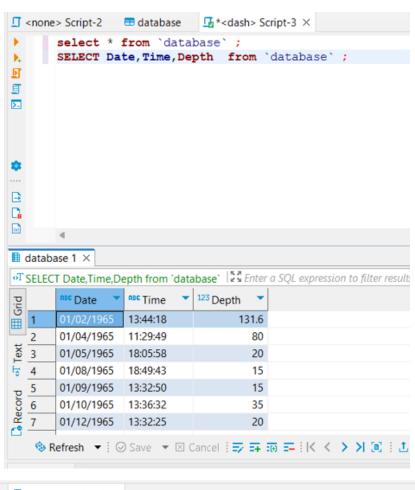


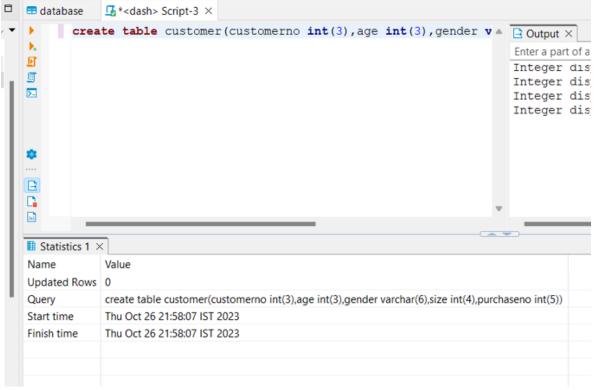
• Now right click on the dataset and click SQL editor to start the querying.

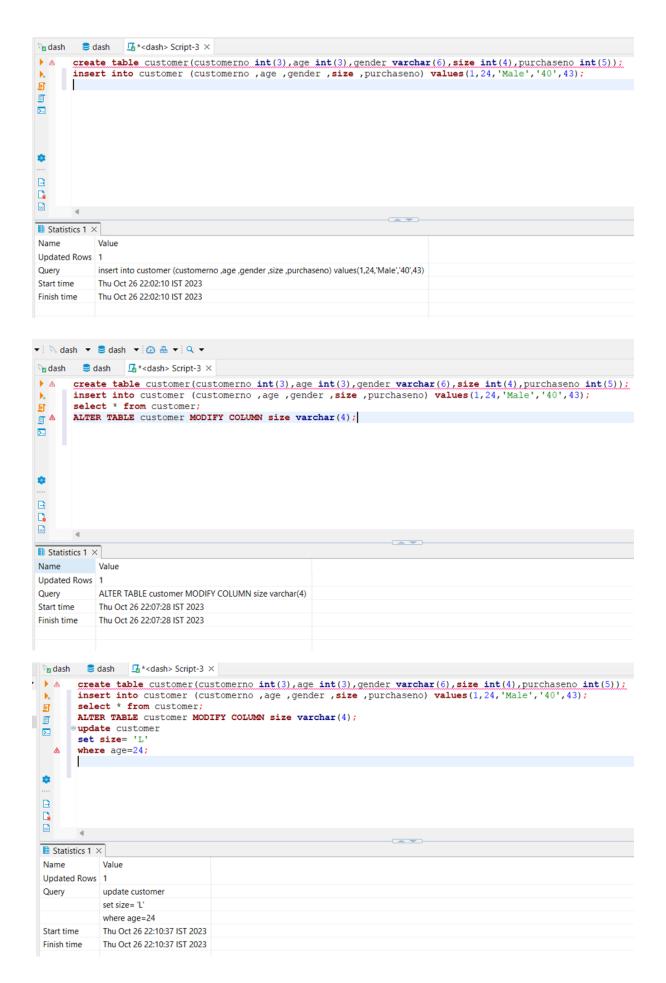


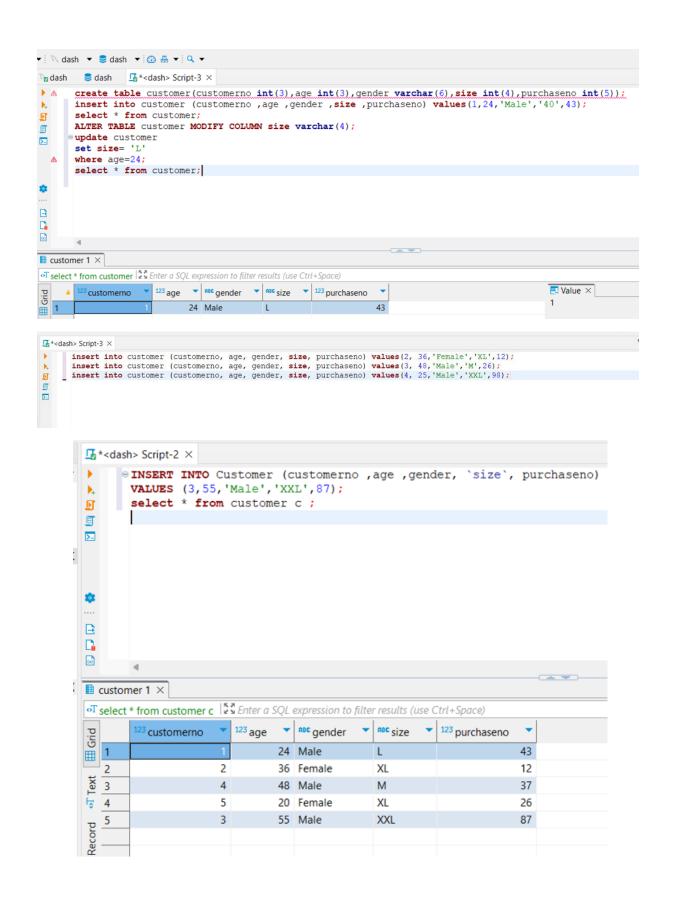
• Start doing the SQL queries.

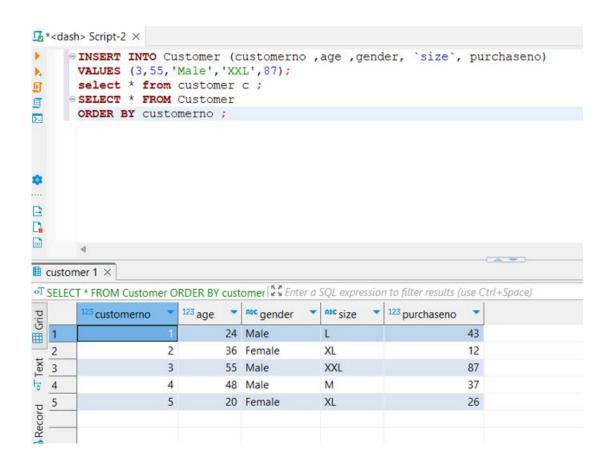


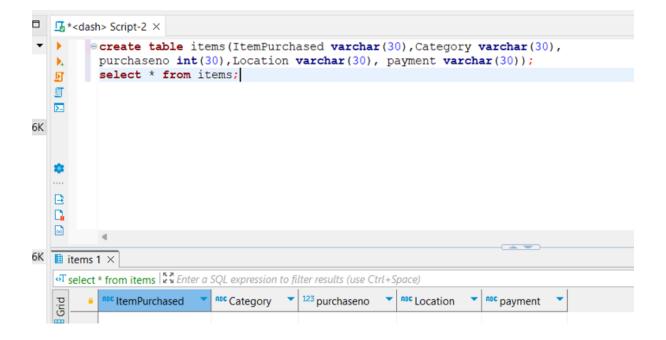


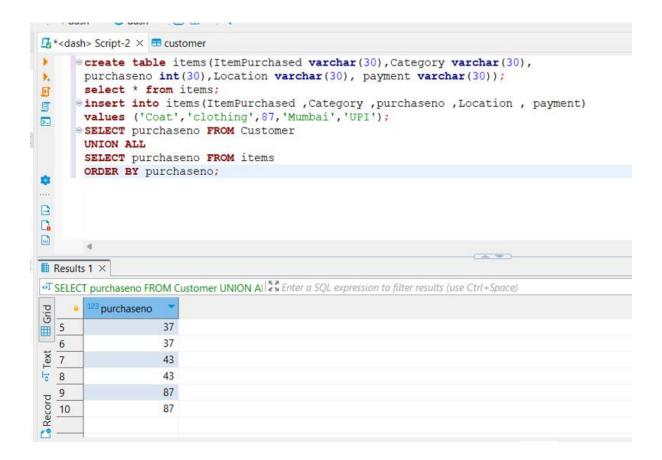






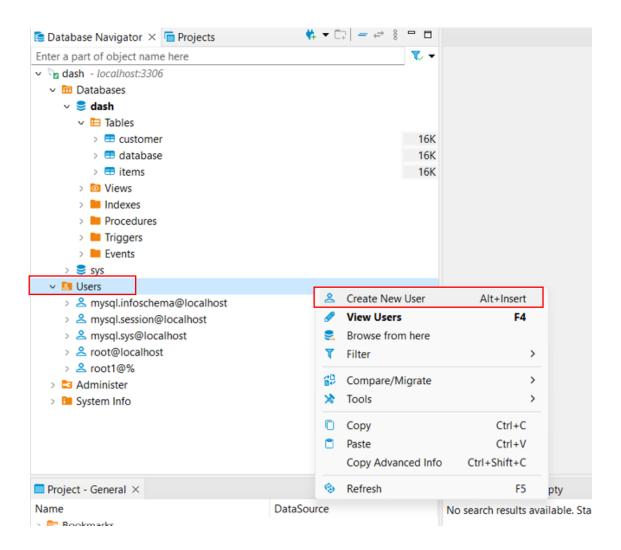






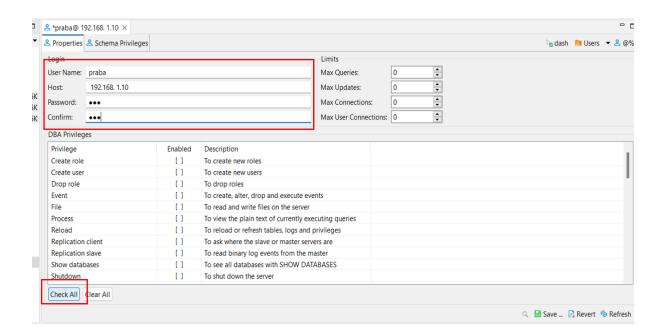
• Now the ETL process is finished.

➤ The seventh step is to enable data architects so that they can explore and analyze our data for better decision making.

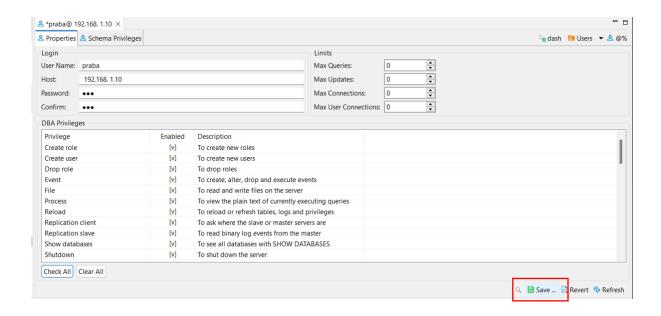


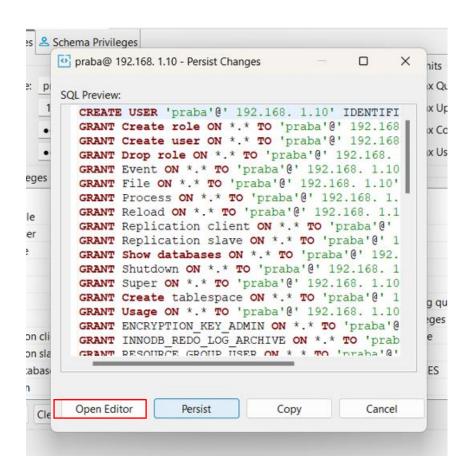
• Right click the users and click New user to create a new user.

• Fill the data architect details like username, password and architect's IP address.



- Click check all to grant all permissions of our database.
- Save the progress.





• Click persist button to confirm all the permissions.

• Now we can see that the new user is created for data exploration.

