

Project Title : Data Migration From MySQL to PostgreSQL

Objective :-

The main goal of this project is to transfer data from a MySQL database to a PostgreSQL database using a CSV file, while ensuring the accuracy and integrity of the data. This project demonstrates how data can be migrated between two different relational database systems using simple and effective methods.

Steps followed :

1. Create database and table in MySQL workbench.
2. Insert sample data.
3. Exported data as CSV using MySQL workbench.
4. Create similar table in PostgreSQL.
5. Import CSV file.
6. Verify data integrity and structure.

Tools & Technologies Used:

MySQL Workbench – to create tables and export data

PostgreSQL with pgAdmin – to recreate tables and import data

CSV (Comma-Separated Values) – as the format for transferring data

Data Integrity Check:

The number of rows in both databases was the same.

Column names and data types were matched properly.

All values were transferred without any loss, duplication, or corruption.

Challenges Faced :

Permission issues when importing CSV into PostgreSQL.

Adjusting path and file permissions.

Learnings from the Project:

Understood how relational databases can interact using standard data formats like CSV.

Learned practical SQL for both MySQL and PostgreSQL.

Improved problem-solving skills with file system permissions and tool configuration.

Conclusion :

The migration was successfully completed. Data from MySQL was exported, formatted, and imported into PostgreSQL without any loss. This project demonstrates a simple, reliable method of data migration using tools that are commonly available and user-friendly.