SQL Internship - Task 3 Report

# 1. Task Title: Database Migration

This task involves migrating data between two different database systems — MySQL and PostgreSQL. The objective is to ensure data consistency and integrity during the migration process while gaining hands-on experience in working with cross-platform database operations.

# 2. Tools and Technologies Used

- MySQL Workbench

- PostgreSQL (pgAdmin)

- SQL Scripting

- CSV File Format for Data Transfer

# 3. Step-by-Step Migration Process

Step 1: Export Data from MySQL

• Using MySQL Workbench, the database named 'sql\_internship' was selected.  
• Tables were exported using the 'Export to Self-Contained File' option.  
• A .sql dump file was generated and saved locally.

Step 2: Convert/Prepare Data for Import

• The exported data was converted to a CSV format to simplify the import process into PostgreSQL.  
• Data was manually reviewed and cleaned if necessary.

Step 3: Import Data into PostgreSQL

• A new database 'Task3db' was created in PostgreSQL using pgAdmin.  
• A table named 'Sales' was created with the appropriate schema.  
• The cleaned CSV file was imported using the \copy command from pgAdmin's query tool.

# 4. SQL Code Snippets

Table Creation in PostgreSQL:

CREATE TABLE Sales (  
 SaleID INTEGER PRIMARY KEY,  
 CustomerName VARCHAR(50),  
 Place VARCHAR(50),  
 Amount INTEGER,  
 SaleDate DATE  
);

Importing CSV File in PostgreSQL:

\copy Sales(SaleID, CustomerName, Place, Amount, SaleDate)  
FROM 'C:/Users/sneha/Documents/sales\_data.csv'  
DELIMITER ','  
CSV HEADER;

# 5. Conclusion

The migration process was successfully completed by exporting data from MySQL, transforming it into a CSV format, and importing it into PostgreSQL. This task helped understand the practical challenges of cross-platform data handling, and reinforced the importance of maintaining data integrity during database operations.