

Database Migration Summary Report

Internship Task - 3: Database Migration (MySQL to PostgreSQL)

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1. Overview

This report summarizes the migration of data from a MySQL database (source_db) to a PostgreSQL database (target_db). The process ensures data integrity and successful transfer.

2. Migration Details

Parameter	Details
Source Database	MySQL (source_db)
Target Database	PostgreSQL (target_db)
Table Migrated	employees
Total Rows Migrated	3
Data Export Method	SELECT INTO OUTFILE
Data Import Method	COPY FROM CSV
Integrity Check	Row counts match

3. Migration Steps

1. Extracted Data from MySQL:

- Used SELECT INTO OUTFILE to export employees table data into a CSV file.

2. Created Target Table in PostgreSQL:

- Created the employees table structure matching the MySQL schema.

3. Imported Data into PostgreSQL:

- Used COPY command to insert data from the CSV file into PostgreSQL.

4. Data Validation:

- Verified data integrity by checking row counts.

4. Validation and Results Data

Verification in PostgreSQL

Executed:

```
SELECT * FROM employees;
```

Output:

```
pgsql Copy Edit
```

id	name	age	department
1	Alice	30	HR
2	Bob	25	Engineering
3	Charlie	35	Finance

(3 rows)

✓ Data Integrity Check: Passed (Row counts match)
✓ Data Consistency: Verified

5. Challenges & Resolutions

Challenge

Resolution

Data type compatibility issues

Ensured column types matched

Special characters in CSV import

Used proper delimiters and encodings

File permission issues permissions

Set correct file read/write

6. Conclusion

The migration was successfully completed with data integrity maintained. All records from the employees table were accurately transferred from MySQL to PostgreSQL.