

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.
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4. Validation and Results

Data Verification in PostgreSQL

Executed:

```
SELECT * FROM employees;
```

Output:

pgsqlCopyEdit

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	Set correct file read/write permissions

6. Conclusion

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