

CODTECH Internship

TASK 3

Database Migration From MYSQL To PostgreSQL

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OBJECTIVE:

To Migration data from MYSQL to PostgreSQL While Ensure Data Integrity

TOOL USED:

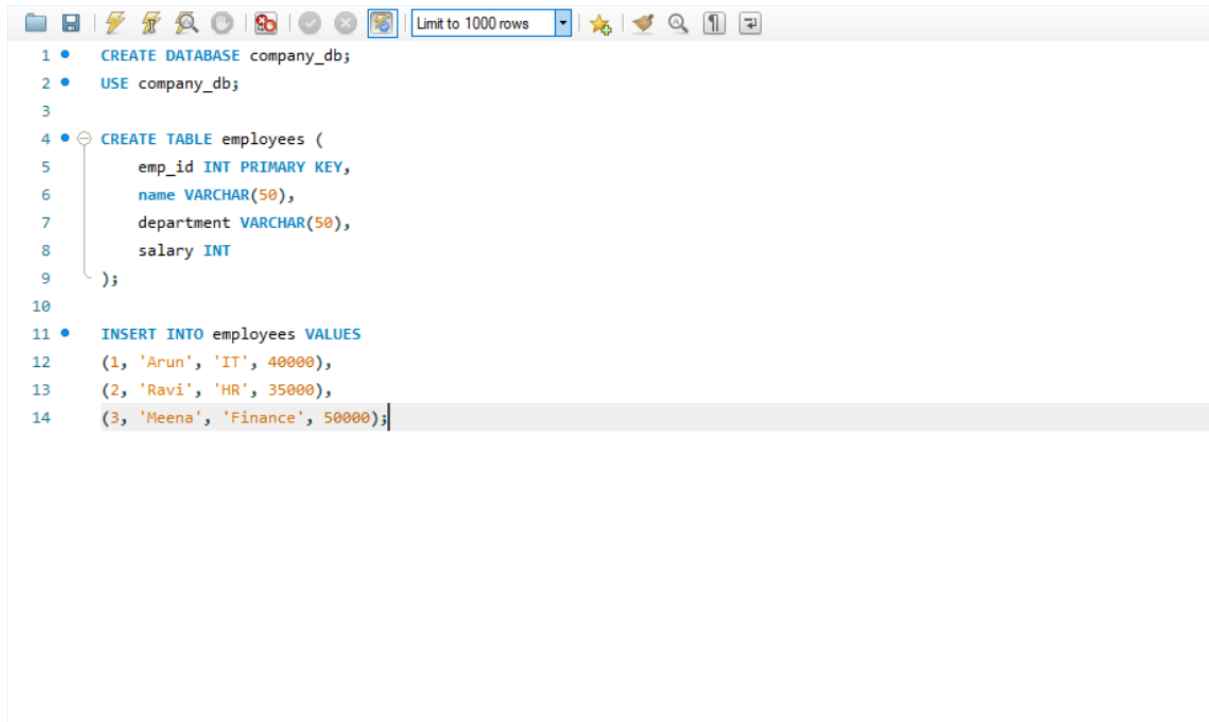
- . MYSQL Workbench

- . PostgreSQL

- . Pgloader

Migration Process:

1. Create database and tables and insert values in MYSQL:



```
1 • CREATE DATABASE company_db;
2 • USE company_db;
3
4 • CREATE TABLE employees (
5     emp_id INT PRIMARY KEY,
6     name VARCHAR(50),
7     department VARCHAR(50),
8     salary INT
9 );
10
11 • INSERT INTO employees VALUES
12 (1, 'Arun', 'IT', 40000),
13 (2, 'Ravi', 'HR', 35000),
14 (3, 'Meena', 'Finance', 50000);
```

The screenshot shows a MySQL command-line interface with a toolbar at the top. The toolbar includes icons for file operations (new, open, save, print), editing (undo, redo, find, replace), and execution (run, limit to 1000 rows, refresh, search, and other utility icons). The SQL code is displayed in a monospaced font with syntax highlighting: keywords are in blue, identifiers in black, and string literals in orange. The code consists of three main parts: creating a database named 'company_db', using that database, creating a table named 'employees' with four columns (emp_id as a primary key, name, department, and salary), and inserting three rows of employee data into the table.

2. Selecting sample data:



A screenshot of a 'Result Grid' displaying the first four rows of the 'employees' table. The grid has columns for 'emp_id', 'name', 'department', and 'salary'. The first three rows contain data for employees Arun, Ravi, and Meena. The fourth row shows 'NULL' values for all columns.

	emp_id	name	department	salary
▶	1	Arun	IT	40000
	2	Ravi	HR	35000
	3	Meena	Finance	50000
•	NULL	NULL	NULL	NULL

3. Created target PostgreSQL database:

Query	Query History
1	CREATE TABLE employees (
2	emp_id INT PRIMARY KEY,
3	name VARCHAR(100),
4	department VARCHAR(50),
5	salary INT
6);
7	
8	INSERT INTO employees VALUES
9	(1, 'Arun', 'HR', 30000),
10	(2, 'Bala', 'IT', 50000),
11	(3, 'Chitra', 'Finance', 45000);

Data Output	Messages	Notifications
INSERT 0 3		
Query returned successfully in 105 msec.		

Total rows:	Query complete 00:00:00.105
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4.Used pgloader for migration:



Local instance MySQL80

Data Export

Advanced Options...

Object Selection Export Progress

Export Completed

Status:

1 of 1 exported.

Log:

```
12:38:07 Dumping company_db (all tables)
Running: mysqldump.exe --defaults-file="C:\Users\GS4EF3~1\AppData\Local\Temp\tmpdaiww3zg.cnf" --host=localhost --port=3306 --default-character-set=utf8 --user=root
--protocol=tcp --skip-triggers "company_db"
12:38:08 Export of C:\Users\G.S.A\Documents\dumps\Dump20260119.sql has finished
```

Stop

Export Again

Query

Query History

1

`SELECT * FROM employees;`

Data Output

Messages

Notifications

SQL

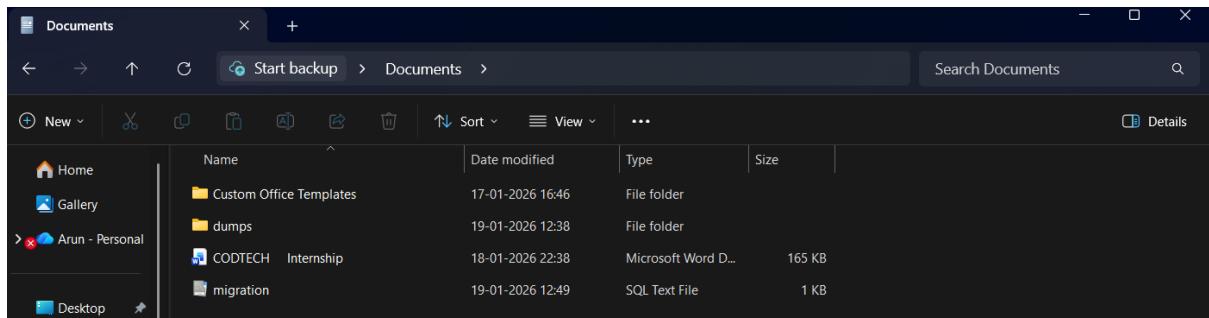
Showing rows: 1 to 3

	emp_id [PK] integer	name character varying (100)	department character varying (50)	salary integer
1	1	Arun	HR	30000
2	2	Bala	IT	50000
3	3	Chitra	Finance	45000

Total rows: 3

Query complete 00:00:00.351

5.Verified migration data:



```
migration.sql

File Edit View

CREATE TABLE employees (
    emp_id INT PRIMARY KEY,
    name VARCHAR(100),
    department VARCHAR(50),
    salary INT
);

INSERT INTO employees VALUES
(1, 'Arun', 'HR', 30000),
(2, 'Bala', 'IT', 50000),
(3, 'Chitra', 'Finance', 45000);

SELECT * FROM employees;
```

Result:

Data successfully migrated without data loss

Conculusion:

The migration process was completed
successfully ensure data integrity