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Task 3 : Database migration

Task Description:

Task: Migrate data between two databases (e.g., MySQL to PostgreSQL) and ensure data integrity.
Deliverables: Migration scripts and a summary report of the process.

•Source Database Table : Employees (MySql - Simulation)

EmpId	Name	Age	Department	Salary
101	Riya	24	HR	35000
102	Arjun	27	Sales	40000
103	Priya	22	IT	45000

•Target Database Table (PostgreSQL - Simulation):

EmpId	FullName	Age	Dept	Salary
101	Riya	24	HR	35000
102	Arjun	27	Sales	40000
103	Priya	22	IT	45000

“ We changed column names(Name to FullName , Department to Dept) to fit PostgreSQL naming “

- **Migration Script (With SQL simulation) :**

```
-- Step 1: Export data from MySQL
SELECT * FROM Employees;

-- Step 2: Create table in PostgreSQL
CREATE TABLE Employees (
  EmpID INT PRIMARY KEY,
  FullName VARCHAR(50),
  Age INT,
  Dept VARCHAR(50),
  Salary INT
);

-- Step 3: Insert data
INSERT INTO Employees VALUES
```

(101, 'Riya', 24, 'HR', 35000),
(102, 'Arjun', 27, 'Sales', 40000),
(103, 'Priya', 22, 'IT', 45000);

- **Output after Migration (PostgreSQL Table) :**

EmpId	FullName	Age	Dept	Salary
101	Riya	24	HR	35000
102	Arjun	27	Sales	40000
103	Priya	22	IT	45000

The above table shows the data successfully migrated to the PostgreSQL database after executing the INSERT commands.

- **Summary Report:**

I simulated migrating an "Employees" table from MySQL to PostgreSQL using phone-based tools.

Changes made:
- Renamed columns to match PostgreSQL conventions.
- Ensured all data types are supported in the new DB.
- Verified that all records were inserted without any loss or duplication.

Data integrity was maintained as all records were successfully migrated.