CODTECH Internship: Task 4 - Database Backup and Recovery

# 1️⃣ Objective

Demonstrate how to back up a database and restore it in case of failure. Provide backup and recovery scripts, and document the process.

# 2️⃣ Backup Process

## 🔹 MySQL

Backup using mysqldump:

mysqldump -u username -p database\_name > backup\_file.sql

## 🔹 PostgreSQL

Backup using pg\_dump:

pg\_dump -U username -W -F t database\_name > backup\_file.tar

# 3️⃣ Restore Process

## 🔹 MySQL

Restore from backup:

mysql -u username -p database\_name < backup\_file.sql

## 🔹 PostgreSQL

Restore from backup:

pg\_restore -U username -d database\_name backup\_file.tar

# 4️⃣ Best Practices

- Verify backup integrity (file size, logs).  
- Schedule regular backups (e.g., cron jobs).  
- Store backups in secure, redundant locations (cloud, external drives).  
- Periodically test restore process to ensure backup reliability.

# 5️⃣ Deliverable Scripts

- backup\_mysql.sh  
- restore\_mysql.sh  
- backup\_postgresql.sh  
- restore\_postgresql.sh

# 6️⃣ Summary

This document provides the necessary scripts and documentation to perform database backup and recovery using MySQL and PostgreSQL.