Codetech IT solutions task-4

# Objective

Demonstrate how to back up a MySQL database and restore it in case of failure.

# Deliverables

• Backup Script  
• Recovery Script  
• Step-by-Step Documentation

# 1. Backup Script

**mysqldump -u root -p mysql\_python > "C:\Users\madhu\OneDrive\Desktop\task4\your\_backup.sql"**

Description:  
- mysqldump is the utility used to create a backup.  
- -u root -p: Specifies MySQL username and prompts for password.  
- mysql\_python: The name of the database to be backed up.  
- The output is saved to the specified path.

# 2. Restore Script

**mysql -u root -p mysql\_python < "C:\Users\madhu\OneDrive\Desktop\task4\your\_backup.sql"**

Description:  
- mysql: The MySQL command-line tool used to restore the database.  
- mysql\_python: The name of the target database to restore into (must exist beforehand).  
- The SQL dump file is used to import all data back into the database.

# 3. Step-by-Step Documentation

## A. Backup Process

1. Open CMD and navigate to the MySQL bin directory:  
 cd "C:\Program Files\MySQL\MySQL Server 8.0\bin"  
  
2. Run the backup command:  
 mysqldump -u root -p mysql\_python > "C:\Users\madhu\OneDrive\Desktop\task4\your\_backup.sql"  
  
3. Enter your MySQL password when prompted.  
  
4. If successful, the file your\_backup.sql will be created in the specified folder.

## B. Recovery Process

1. Ensure the database mysql\_python exists. If not, create it:  
 CREATE DATABASE mysql\_python;  
  
2. Run the restore command:  
 mysql -u root -p mysql\_python < "C:\Users\madhu\OneDrive\Desktop\task4\your\_backup.sql"  
  
3. Enter your MySQL password when prompted.  
  
4. Once done, your database will be restored with all previous data and schema.

## Verification

To verify restoration:  
- Log into MySQL and run:  
 USE mysql\_python;  
 SHOW TABLES;  
 SELECT \* FROM your\_table\_name;

# Output After Migration

After restoring the database, you can check whether the data has been successfully restored by running:  
  
 USE mysql\_python;  
 SHOW TABLES;  
 SELECT \* FROM your\_table\_name;  
  
