Practical-8: Database Back up and Restore

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Step 1: Navigate to the MySQL bin directory

```
C:\Windows\System32>cd C:\Program Files\MySQL\MySQL Server 8.0\bin
```

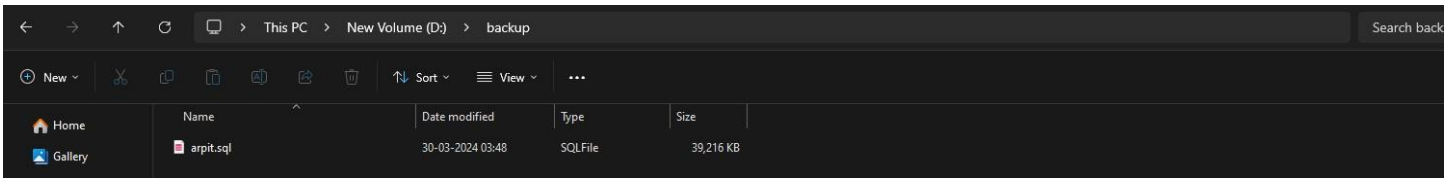
Step 2: Backup the MySQL Database

- Use the mysqldump command to create a backup of your database.
- Replace your_database_name with the name of the database you want to backup, and your_backup_file.sql with the desired name for your backup file:

```
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysqldump -u root -p arpit > arpit.sql
Enter password: ********
```

- If you want to specify a particular directory where you want to save the backup file, you can provide the full path to the directory when specifying the backup file name. Here's how you can do it:

```
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysqldump -u root -p arpit > D:\backup\arpit.sql
Enter password: ********
```



Database Backup Completed

Step 3: Drop the MySQL Database, Recreate an Empty Database, and Restore from Backup

```
mysql> drop database arpit;
Query OK, 19 rows affected (0.08 sec)
```

```
mysql> create database arpit;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SHOW TABLES from arpit;
Empty set (0.00 sec)
```

Step 4 : Now, you can restore the database from the backup file using the following command. Make sure you're in the same directory where the backup file is located, or provide the full path to the backup file:

```
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p arpit < arpit.sql
Enter password: ********
```

```
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p arpit < D:\backup\arpit.sql
Enter password: ********
```

Step 5: Verify Database Restoration

- After restoring the database from the backup file, you can verify if the 'arpit' database exists in MySQL. Follow these steps:

```
mysql> SHOW TABLES from arpit;
+----------------+
| Tables_in_arpit |
+----------------+
| actor          |
| advising       |
| city           |
| courses        |
| customer       |
| dd             |
| director       |
| emp            |
| grades         |
| iindex         |
| instructors    |
| movie_cast     |
| movies         |
| nn             |
| orders         |
| rating         |
| salesman       |
| students       |
| virat          |
+----------------+
```

```
mysql> select * from orders;
+--------+-----------+------------+-------------+-------------+
| ord_no | purch_amt | ord_date   | customer_id | salesman_id |
+--------+-----------+------------+-------------+-------------+
|  70001 |     150.5 | 2012-10-05 |        3005 |        5002 |
|  70002 |     65.26 | 2012-10-05 |        3002 |        5001 |
|  70003 |    2480.4 | 2012-10-10 |        3009 |        NULL |
|  70004 |     110.5 | 2012-08-17 |        3009 |        NULL |
|  70005 |    2400.6 | 2012-07-27 |        3007 |        5001 |
|  70007 |     948.5 | 2012-09-10 |        3005 |        5002 |
|  70008 |      5760 | 2012-09-10 |        3002 |        5001 |
|  70009 |    270.65 | 2012-09-10 |        3001 |        NULL |
|  70010 |   1983.43 | 2012-10-10 |        3004 |        5006 |
|  70011 |     75.29 | 2012-08-17 |        3003 |        5007 |
|  70012 |    250.45 | 2012-06-27 |        3008 |        5002 |
+--------+-----------+------------+-------------+-------------+
11 rows in set (0.00 sec)
```