

# 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
```

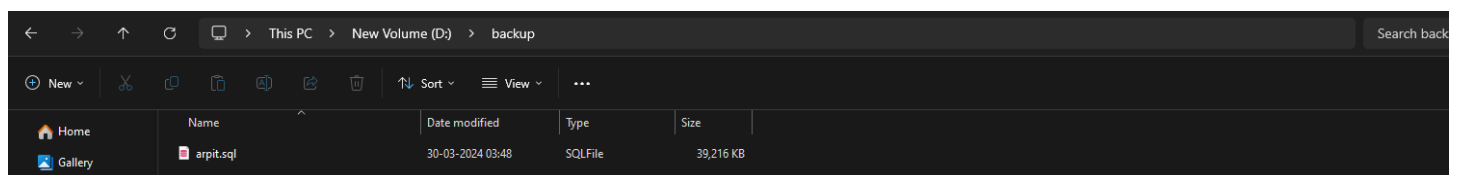
## Step 2: Backup the MySQL Database

- 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: *****
```



The screenshot shows a Windows File Explorer window with the address bar set to 'This PC > New Volume (D:) > backup'. The search bar on the right contains 'Search back'. The ribbon at the top includes 'New', 'Cut', 'Copy', 'Paste', 'Share', 'Delete', 'Sort', 'View', and 'More'. The main area displays a table of files:

	Name	Date modified	Type	Size
	arpit.sql	30-03-2024 03:48	SQLFile	39,216 KB

## 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)
```

