

# PRACTICAL -08

## Database Back up and Restore

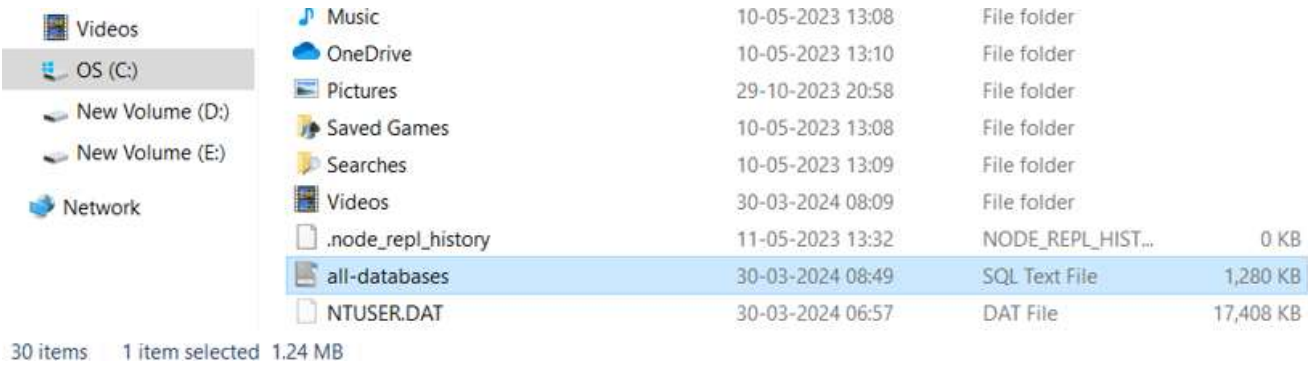
create a backup of all MySQL server databases using following commands:

### RECOVER

```
mysqldump --user root --password --all-databases > all-databases.sql
```



```
mysql --user root --password mysql < all-databases.sql
```



### BACKUP

```
mysql --user root --password [db_name] < [db_name].sql
```

```
C:\Users\tanmay>mysql --user=root --password=kashinath > kashibackup.sql
Enter password: *****

C:\Users\tanmay>mysqldump -u root -p kashinath > k.sql
Enter password: *****

C:\Users\tanmay>mysql --user=root --password=backup < k.sql
Enter password: *****

C:\Users\tanmay>
```

```
:\Users\Tanmay>mysql --user=root --password=mysql < all-databases.sql
Enter password: *****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)

Select MySQL 8.0 Command Line Client

-----+-----
:\Users\Tanmay>mysql
6 rows in set (0.00 sec)

Enter password: *****

mysql> use backup;
Database changed
he system cannot find the file specified
mysql> show tables;
Empty set (0.00 sec)

:\Users\Tanmay>mysql
he system cannot find the file specified
mysql> show tables;

-----+-----
:\Users\Tanmay>mysql
Tables_in_backup |
he system cannot find the file specified |
-----+-----
actor |
advising |
courses |
customer |
director |
grades |
highsalesman |
instructions |
movie_cast |
movies |
orders |
rating |
salesman |
students |
-----+-----

:\Users\Tanmay>
:\Users\Tanmay>mysql
id rows in set (0.00 sec)

Enter password: *****

mysql>

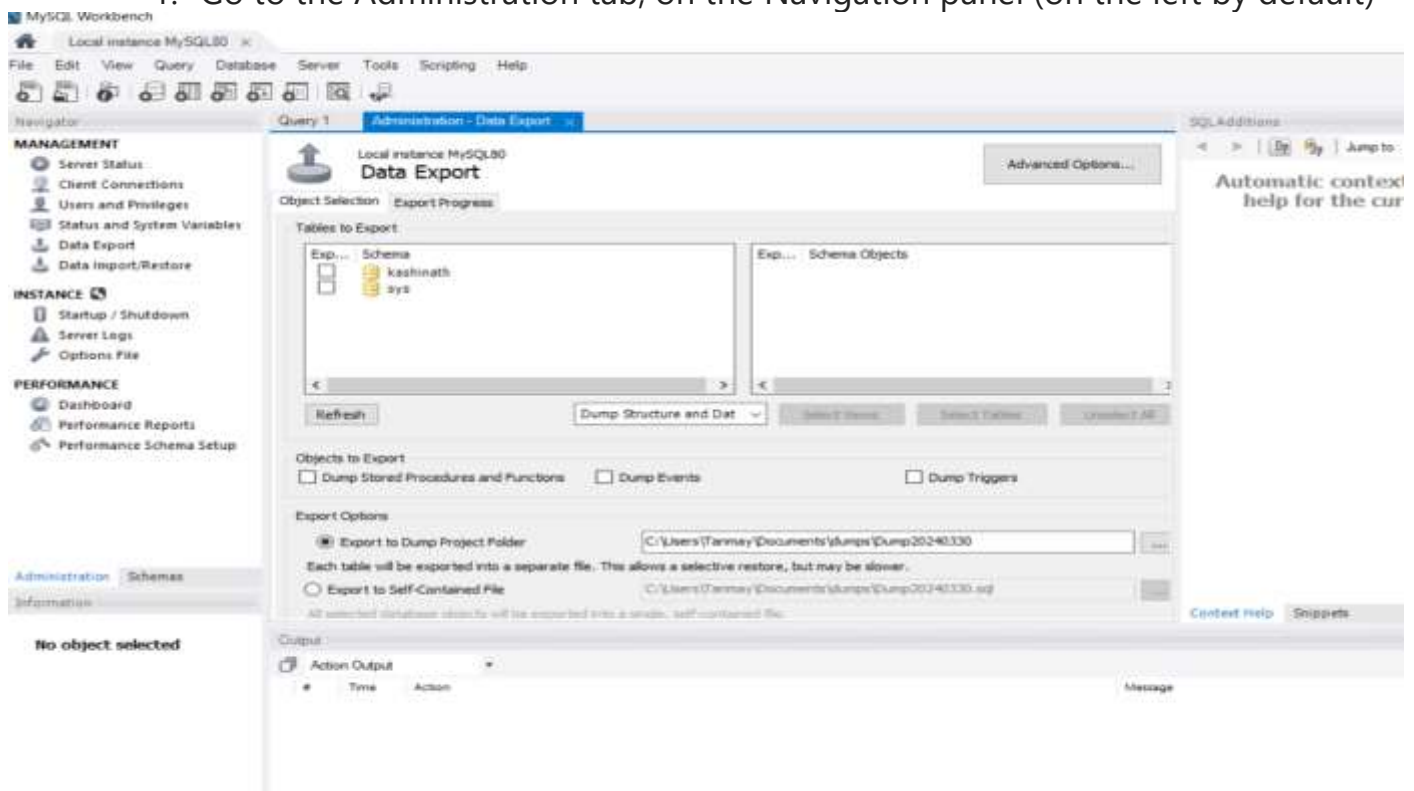
:\Users\Tanmay>mysql --user=root --password=kashinath > kashibackup.sql
Enter password: *****

:\Users\Tanmay>mysqldump -u root -p kashinath > k.sql
Enter password: *****
```

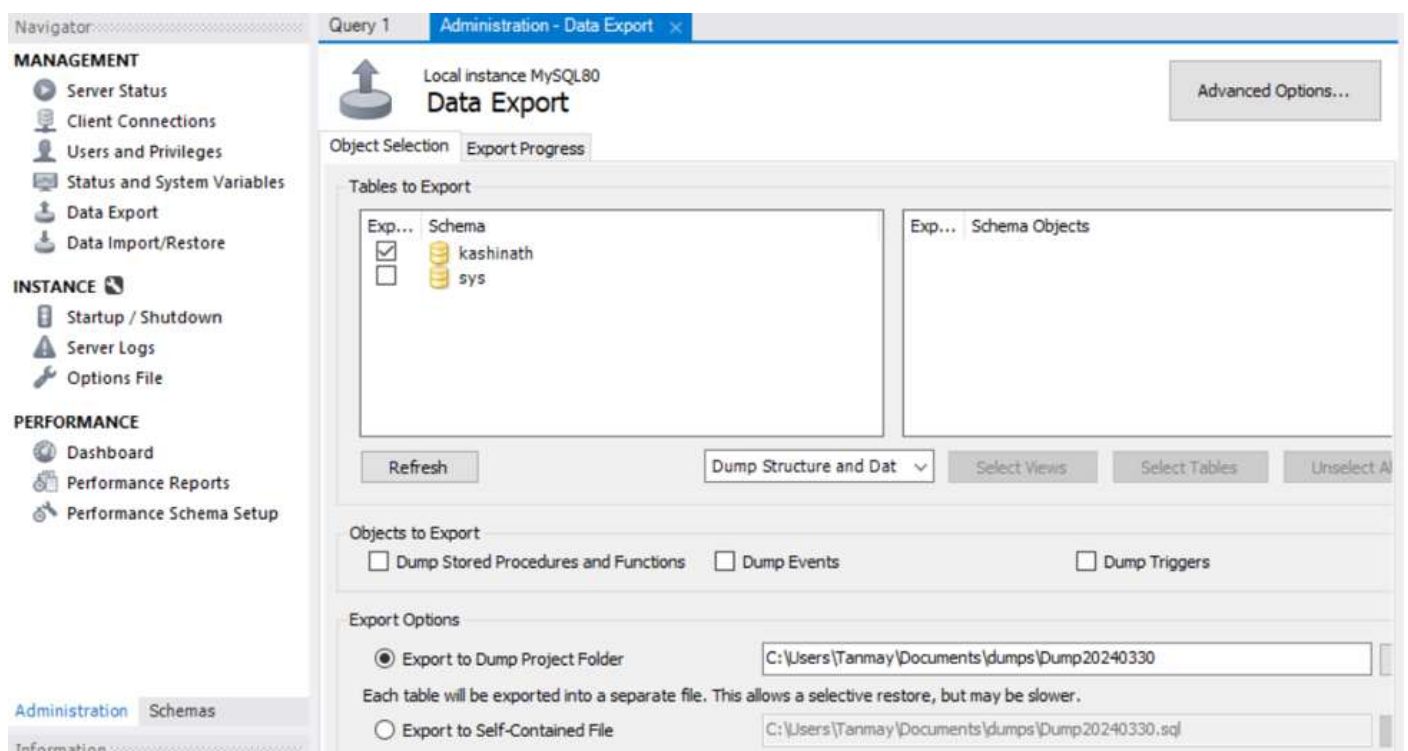
## USING MYSQL WORKBENCH

## STEPS

1. Go to the Administration tab, on the Navigation panel (on the left by default)



2. From the Data Export tab in the Tables To Export section, select the databases and tables that will be added to the backup file



3. From the Export Option section, select the format for the exported data. Either each table will be exported to a separate .sql file, or one common .sql file will be created.

The screenshot shows the 'Export Options' tab of the MySQL Data Export Wizard. At the top, there are buttons for 'Refresh', 'Dump Structure and Data', 'Select Rows', 'Select Tables', and 'Unselect All'. Below these, the 'Objects to Export' section has three checkboxes: 'Dump Stored Procedures and Functions', 'Dump Events', and 'Dump Triggers', all of which are currently unchecked. The 'Export Options' section has two radio buttons: 'Export to Dump Project Folder' (selected) and 'Export to Self-Contained File'. The 'Export to Dump Project Folder' option has a text box showing the path 'C:\Users\Tanmay\Documents\dumps\Dump20240330.sql'. Below this, a note states: 'Each table will be exported into a separate file. This allows a selective restore, but may be slower.' The 'Export to Self-Contained File' option has a text box showing the path 'C:\Users\Tanmay\Documents\dumps\Dump20240330.sql'. Below this, a note states: 'All selected database objects will be exported into a single, self-contained file.' There are two checkboxes: 'Create Dump in a Single Transaction (self-contained file only)' and 'Include Create Schema', both of which are currently unchecked. At the bottom left, it says 'Press [Start Export] to start...'. At the bottom right, there is a 'Start Export' button.

The screenshot shows the 'Export Progress' tab of the MySQL Data Export Wizard. At the top, there is a 'Data Export' section with a 'Local instance MySQL80' label and an 'Advanced Options...' button. Below this, the 'Object Selection' and 'Export Progress' tabs are visible. The 'Export Progress' tab shows a green progress bar at the top, indicating 'Export Completed'. Below the progress bar, the status is 'Status: 14 of 14 exported.' and a 'Log:' section shows the following log entries:

```
Running: mysqldump.exe --defaults-file="C:\Users\Tanmay\AppData\Local\Temp\trplncvruj.cnf" --host=localhost --port=3306 --default-character-set=utf8 --user=root --protocol=tcp --skip-triggers "kashinath" "actor"
08:29:51 Dumping kashinath (orders)
Running: mysqldump.exe --defaults-file="C:\Users\Tanmay\AppData\Local\Temp\trplrz_j3nl.cnf" --host=localhost --port=3306 --default-character-set=utf8 --user=root --protocol=tcp --skip-triggers "kashinath" "orders"
08:29:51 Dumping kashinath (grades)
Running: mysqldump.exe --defaults-file="C:\Users\Tanmay\AppData\Local\Temp\trp8ode9f9s.cnf" --host=localhost --port=3306 --default-character-set=utf8 --user=root --protocol=tcp --skip-triggers "kashinath" "grades"
08:29:51 Dumping kashinath (director)
Running: mysqldump.exe --defaults-file="C:\Users\Tanmay\AppData\Local\Temp\trphzjam0u.cnf" --host=localhost --port=3306 --default-character-set=utf8 --user=root --protocol=tcp --skip-triggers "kashinath" "director"
08:29:51 Dumping kashinath (advising)
```

The screenshot shows a Windows File Explorer window with the address bar displaying the path: 'This PC > OS (C:) > Users > Tanmay > Documents > dumps > Dump20240330.sql'. The main area shows a list of files and folders. The 'Quick access' sidebar on the left includes Desktop, Downloads, Documents, Pictures, MSc, New Volume (D:), prodigy\_internship, Screenshots, OneDrive, This PC, 3D Objects, Desktop, and Documents. The main list has columns for Name, Date modified, Type, and Size.

Name	Date modified	Type	Size
kashinath_actor	30-03-2024 08:29	SQL Text File	3 KB
kashinath_advising	30-03-2024 08:29	SQL Text File	3 KB
kashinath_courses	30-03-2024 08:29	SQL Text File	3 KB
kashinath_customer	30-03-2024 08:29	SQL Text File	3 KB
kashinath_director	30-03-2024 08:29	SQL Text File	3 KB
kashinath_grades	30-03-2024 08:29	SQL Text File	4 KB
kashinath_instructions	30-03-2024 08:29	SQL Text File	3 KB
kashinath_movie_cast	30-03-2024 08:29	SQL Text File	3 KB
kashinath_movies	30-03-2024 08:29	SQL Text File	3 KB
kashinath_orders	30-03-2024 08:29	SQL Text File	3 KB
kashinath_rating	30-03-2024 08:29	SQL Text File	3 KB
kashinath_routines	30-03-2024 08:29	SQL Text File	3 KB
kashinath_salesman	30-03-2024 08:29	SQL Text File	3 KB
kashinath_students	30-03-2024 08:29	SQL Text File	3 KB