

Pre-Joining Topics

Week 2: MYSQL ADVANCED

Backup/Recovery

Backup and recovery procedures are used to protect critical data against loss and ensure business continuity in the event of a disaster. A backup is a copy of data stored in a separate, secure location, while recovery is the process of restoring that data to its original or usable state after an incident.

How to back up a database

1. Open MySQL Workbench and connect to your MySQL server instance.
2. In the Navigator panel on the left, go to the **Administration** tab and click on **Data Export**.
3. In the "Tables to Export" section, select the schema (database) you want to back up by checking the box next to its name. You can also select specific tables.
4. Under "Export Options," select **Export to a Self-Contained File**. This will create a single .sql backup file. You can also choose **Export to a Dump Project Folder** to create a separate file for each table.
5. Specify the file path and name for your backup file.
6. For more control, click **Advanced Options** to specify things like a single transaction export, including the CREATE SCHEMA statement, or adding DROP TABLE statements.
7. Click **Start Export** to begin the backup process.

How to restore a database

1. Open MySQL Workbench and connect to your MySQL server instance.
2. In the Navigator panel, click **Data Import/Restore** under the **Administration** tab.
3. Choose your import method:
 - **Import from a Self-Contained File:** Select this option if your backup is a single .sql file. Click the three dots to locate the file.
 - **Import from a Dump Project Folder:** Use this if your backup consists of multiple files in a folder. Provide the folder path and click **Load Folder Contents** to see the tables available for import.
4. Specify the target schema:

- For a **Self-Contained File**, select the schema you want to restore to from the "Default Target Schema" drop-down. The wizard can either create a new schema or restore to an existing, empty one.
 - For a **Dump Project Folder**, select which tables you want to restore.
5. Click **Start Import**. The process will run, and you can view the progress on the "Import Progress" tab.
 6. Once the import is complete, refresh your Schemas list to see the restored database.