



How is Data saved in *MySQL* (linux)



Data in MySQL

- This is based on Linux file system.
- Basically MySQL stores data in files in hard disk.
- It stores the files in a specific directory that has the system variable "datadir".
- Opening a mysql console and running the following command will tell you exactly where the folder is located.

mysql> SHOW VARIABLES LIKE 'datadir';

+-----+-----+	
Variable_name	Value
+-----+-----+	
datadir	/var/lib/mysql/
+-----+-----+	

- As you can see from the above command, my "datadir" was located in /var/lib/mysql/.
- The location of the "datadir" may vary in different systems.
- This directory contains folders and some configuration files.



Data in MySQL (contd..)

- Each folder represents a mysql database and contains files with data for that specific database.
- Each folder in the directory represents a MySQL database.
- Each database folder contains files that represent the tables in that database.
- There are two files for each table, one with a .frm (post MySQL 8.0) extension and the other with a .ibd extension.
- The .frm table file stores the table's format. (post MySQL 8.0)
- The .ibd file stores the table's data.
- In MySQL 8.0 Oracle have moved the FRM information—and more—to what is called Serialized Dictionary Information (SDI), The SDI is written INSIDE the ibd file.

Data in MySQL (contd..)



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