

Assignment 1

Date of Completion :

Date of Submission :

Title: MYSQL

Problem Statement: Study of opensource relational database : MYSQL

Objective: To learn & understand the basic database Architecture & the various components of it.

S/W & H/W Requirements: MYSQL, windows 10, Mouse, keyboard, monitor

Theory:

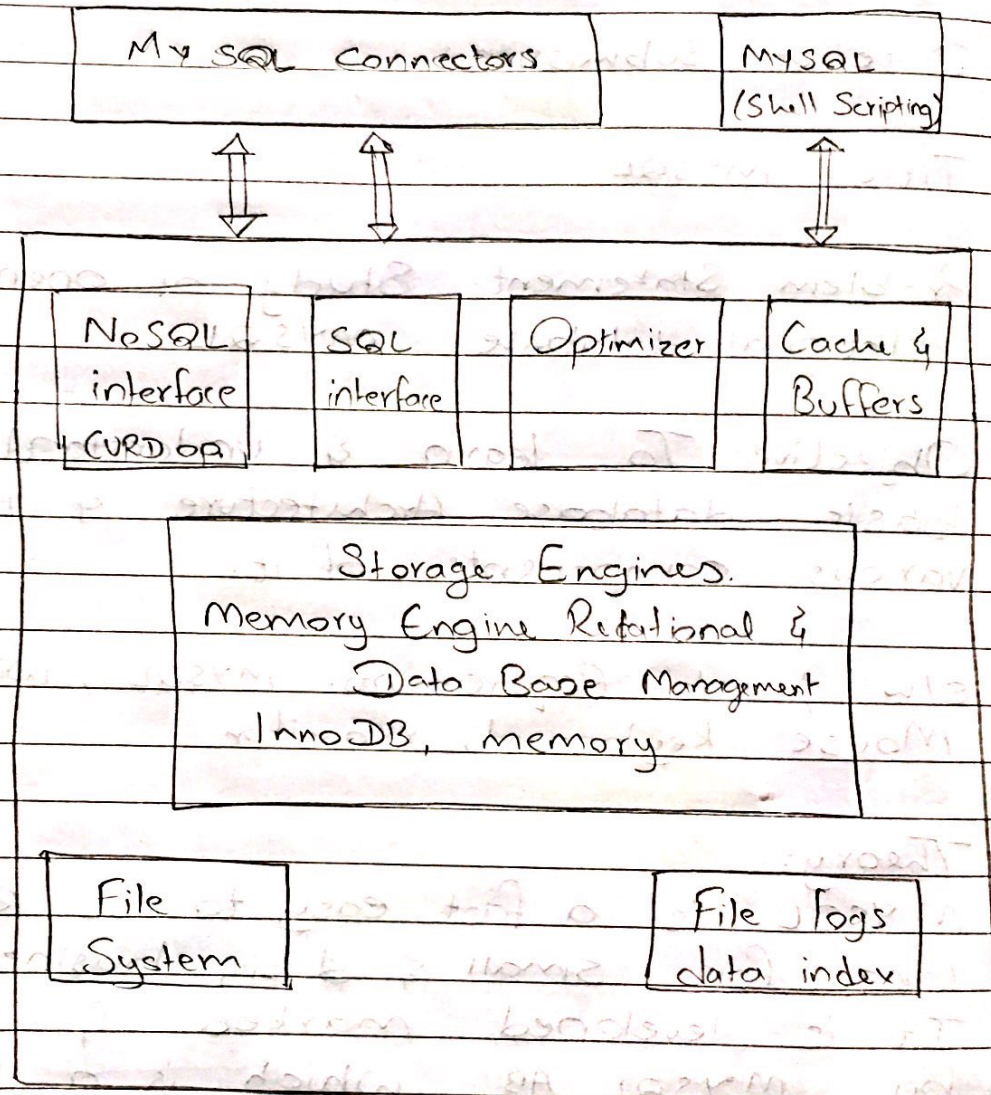
MYSQL is a fast easy to use RDBMS lang. for small & big businesses.

It is developed, marketed & supported by MYSQL AB, which is a Swedish company.

Features:

- 1) Client / Server Architecture.
- 2) Supports Views, stored procedures & triggers.
- 3) Supports many APIs & libraries for development.
- 4) Platform independent.

- 5) Pluggable storage engine architecture
 6) Connectors Eg:- NET, ODBC, JDBC, etc.



MySQL Architecture

1. Application layer & Interfaces / End users.

1. It is a layer where client & user interact with the MySQL DBMS.
2. There are different end users like naive users, programmers, sophisticated users, admins, etc.

2. Query Processor:

1. DDL interpreter
2. DML Compiler
3. Query Evaluation.

3. Storage Manager:

Interface between low level data & Applications.

- a) Authorization & integrity Manager
- b) Transaction Manager
- c) File manager
- d) Buffer manager.

4. Disk Storage

It contains the following Components:

- 1) Data Files
- 2) Data dictionary - Structure
- 3) Indices - Provides faster retrieval.

• Conclusion:

- 1) We studied Architecture of MySQL
- 2) We explored the different features of MySQL
- 3) We studied the structure of a database management system.
- 4) We learnt the functions of different components of ~~db~~ DBMS.