

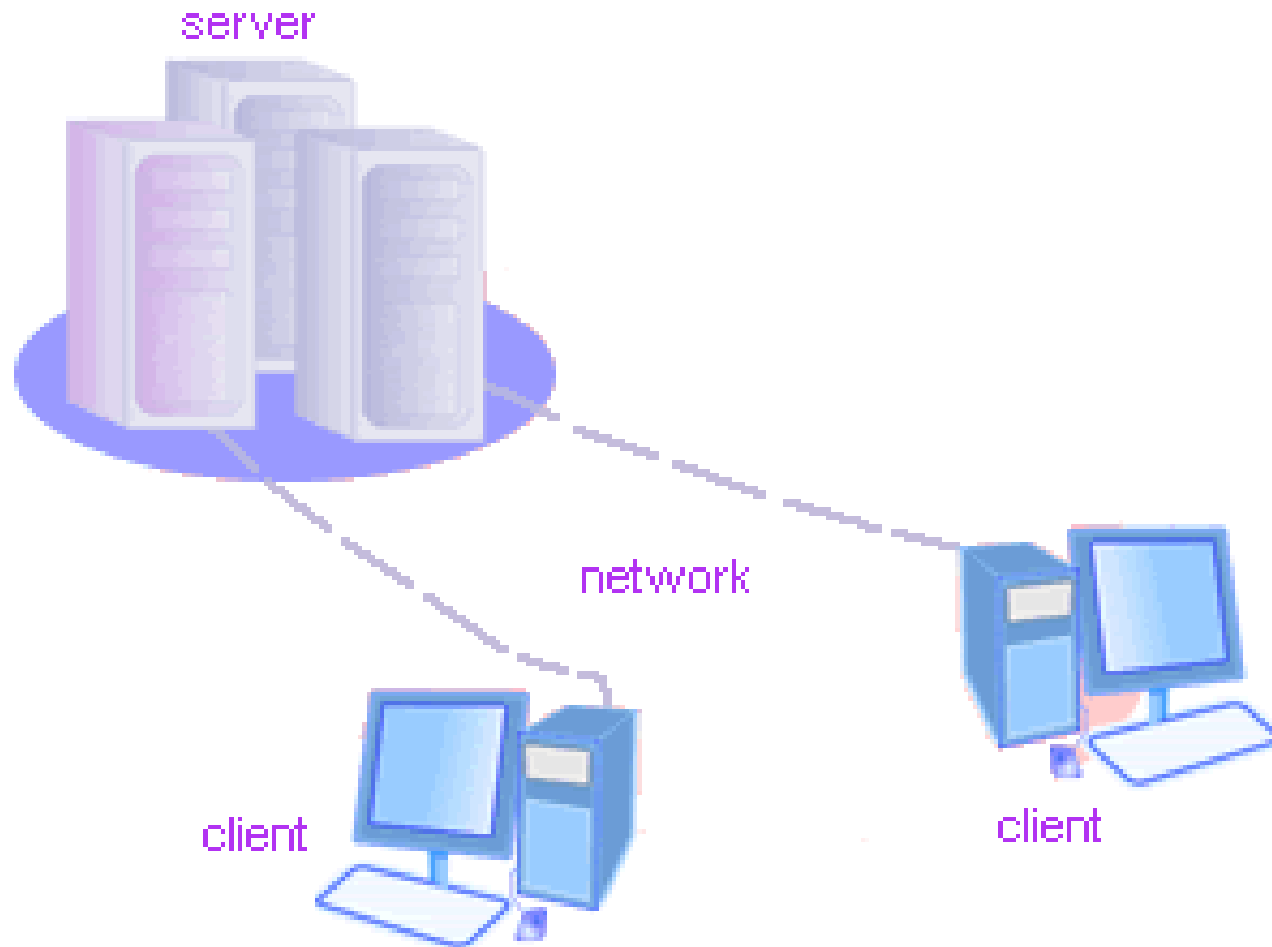
INTRODUCTION TO MYSQL

Overview/terminology

What is MySQL?

- ❑ MySQL is a database management system.
- ❑ MySQL databases are relational.
- ❑ MySQL software is Open Source.
- ❑ The MySQL Database Server is very fast, reliable, scalable, and easy to use.
- ❑ MySQL Server works in client/server or embedded systems.

Client/Server architecture

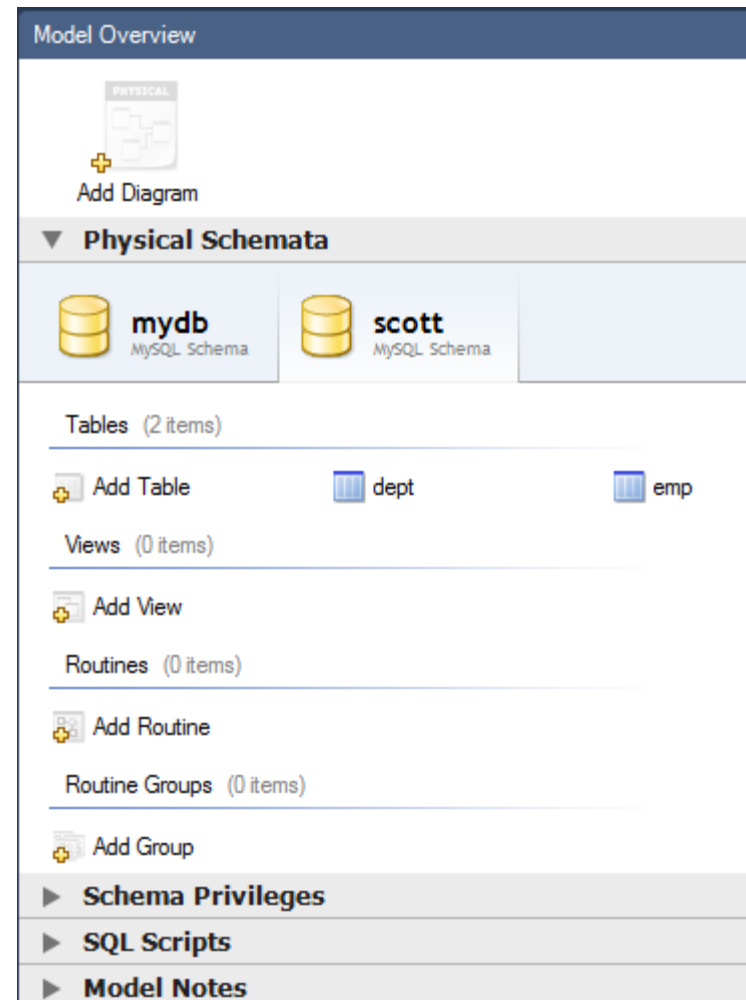


MySQL client/server

- In our case the 'client' and the 'server' will both be on the same machine and will run as two different processes
 - ▣ mysqld.exe (server process)
 - ▣ mysql.exe (client process)

MySQL terminology

- Schema:
 - ▣ In MySQL, the word 'schema' is used interchangeably with 'database'
 - ▣ A schema is a collection of objects e.g. tables, views or routines



MySQL terminology

- ❑ Tables/entities are simply known as tables
- ❑ Fields/attributes referred to as columns
- ❑ Records are referred to as rows

The screenshot displays the MySQL Workbench interface. On the left is the 'Object Browser' showing the 'SCHEMAS' tree with 'scott' expanded, containing 'Tables' (dept, emp), 'Views', 'Routines', and 'test'. The main window is 'Query 1' with a tab labeled 'dept'. It shows a table with columns 'deptno', 'dname', and 'loc'. Below the table are 'Apply' and 'Cancel' buttons. At the bottom is the 'Output' window showing 'Action Output' with a table of execution results.

deptno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
NULL	NULL	NULL

Time	Action	Message
1 18:17:31	SELECT * FROM scott.dept LIMIT 0, 1000	4 row(s) returned