MYSQL

1- MY SQL SERVER, WORKBENCH & SHEEL INSTALLAITON PROCESS ON WINDOW 11🡪

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Google 🡪 Mysql 🡪 official website (https://www.mysql.com/)🡪 https://www.mysql.com/downloads/ 🡪 [MySQL Community (GPL) Downloads](https://dev.mysql.com/downloads/) 🡪 [MySQL Installer for Windows](https://dev.mysql.com/downloads/windows/) 🡪 download 296mb 🡪 No thanks just download

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After installing the sql download file 🡪 INSTALL 🡪 below screen you will appear after install

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**After you execute all the steps & execute finally SQL WORKBENCH & SQL command line interpreter will open.**

**Create password only simple digit & don’t create password with ascii characters.**

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To access mysql in your command line prompt follow the below steps 🡪

* C:\Program Files\MySQL\MySQL Server 8.0\bin
* Copy the above path and paste in system environment variable under
* Do not click on user variables Click on system variable 🡪 path 🡪 new 🡪 paste

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* Mysql prompt is created 🡪 type exit to route to original prompt

**HOW TO START WORK WITH WORKBENCH 🡪**

SQL Workbench is a powerful tool designed for working with databases. It provides an interface to manage and interact with SQL databases.

Key uses of the workbench 🡪 Database Management || Query Execution || Data visualization || SQL Development || Database Connectivity || Data import & export || Schema Browing || user management

open workbench 🡪

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* show databases; ( display list of databases) || lower case & upper case both allow
* user can also execute the query using command line as well.
* Upcoming query we will use command line for better understanding.





Workbench user can create db in 2 ways 🡪

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* Click on 4th icon 🡪 create new schema in server 🡪 write db name 🡪 apply
* Other way - create database nit\_db;

Create database in command line 🡪 create database store\_db;

* To clear the output in command use (system cls)



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* Cmd 🡪 use school\_db; (now user enter to school\_db & all the work will be done inside the school\_db)
* select database(); 🡪 display current database information





* drop database store\_db;

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Varchar(100) -- variable length upto 100 characters

Work bench 🡪

* use test\_db; I want to create table in test\_db
* CREATE TABLE customers(

Id INT,

name VARCHAR(100)

); 🡺 refresh ( customers table is created under test\_db)

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Using command prompt also we can create table under by writing below query 🡪

USE nit\_db;

CREATE TABLE students(id INT, name VARCHAR(50),city VARCHAR(50));

Other way also you can assign the above 1 line to multiple line as well.

CREATE TABLE students(

🡪 id INT,

🡪 name VARCHAR(50),

🡪 city VARCHAR(50)

);





* Cmd 🡪 DESC students; || DESC student1; ( DESC meaning describe table)
* Also we can verify these tables in work bench also



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* Using work bench you can add data into table by using below query 🡪

INSERT INTO students(id, name, class)

VALUES

(101, "MAX", 5);

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Using command line prompt also you can execute below code 🡪

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INSERT INTO students VALUES(102, "ANA", 8);





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Work bench 🡪 SELECT \* FROM students;

If we need detail of only 103 row then 🡪 SELECT \* FROM students WHERE id = 103;



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If refresh in workbench as well table is drop from the database

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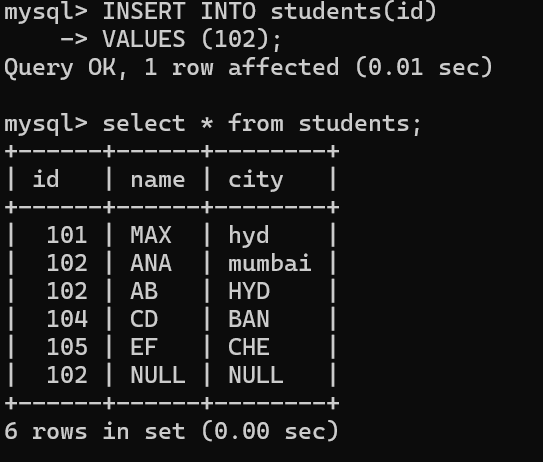
Cmd 🡪 show tables; 🡪 DESC students;

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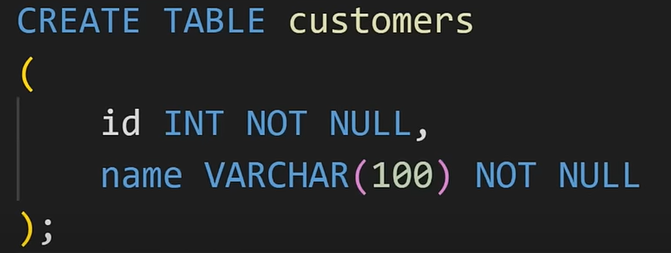


If you check above code last id 102 we got 2 null because by default it consider null value

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We added all null values in above cmd prompt & to avoid these null values we will use NOT NULL



To remove null values need to write below script

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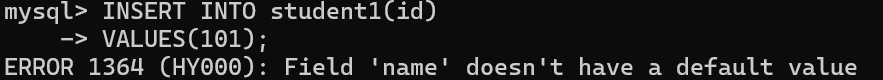
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In below cmd 2 table created students table has null values & student1 has no null values

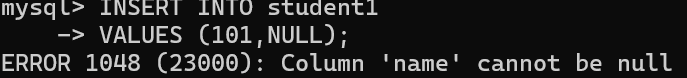
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Created new table under student1; and error as name doesn’t have default value



Even though user enter null values still cannot possible cuz we create this table by using not null



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user want to create employee table you have to use default values

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We want to add data in table

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LIST ALL EXISTING DATABASES

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