

MySQL-SQL

WHAT IS SQL?

- SQL stands for Structured Query Language
- Used for managing and manipulating relational databases.
- SQL lets you access and manipulate databases
- SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987.

WHAT CAN SQL DO?

- SQL can execute queries against a database
- SQL can retrieve data from a database
- SQL can insert records in a database
- SQL can update records in a database
- SQL can delete records from a database
- SQL can create new databases
- SQL can create new tables in a database
- SQL can create stored procedures in a database
- SQL can create views in a database
- SQL can set permissions on tables, procedures, and views

LIST OF RELATIONAL DATABASE MANAGEMENT SYSTEMS

- MySQL
- PostgreSQL
- Oracle Database
- Microsoft SQL Server
- SQLite

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- IBM Db2
- MariaDB

CASE SENSITIVE OR NOT?

- KEYWORDS AND IDENTIFIERS ARE CASE INSENSITIVE LITERALS ARE CASE SENSITIVE.

WHAT DO YOU MEAN BY DBMS? WHAT ARE ITS DIFFERENT TYPES?

Database is a structured collection of data.

A Database Management System (DBMS) is a software application that interacts with the user, applications and the database itself to capture and analyse data.

A DBMS allows a user to interact with the database using query language such as SQL. The data stored in the database can be modified, retrieved and deleted and can be of any type like strings, numbers, images etc.

THERE ARE TWO TYPES OF DBMS:

Relational Database Management System: The data is stored in relations (tables). Example – MySQL, Oracle SQL.

Non-Relational Database Management System: There is no concept of relations, tuples and attributes. Example – Mongo

WHAT ARE THE DIFFERENT SUBSETS OF SQL?

The standard SQL commands to interact with relational databases are CREATE, SELECT, INSERT, UPDATE, DELETE and DROP. These commands can be classified into the following groups based on their nature -

DDL - Data Definition Language

	Command & Description
1	CREATE Creates a new table, a view of a table, or other object in the database.
2	ALTER Modifies an existing database object, such as a table.
3	DROP Deletes an entire table, a view of a table or other objects in the database.

DML - Data Manipulation Language

	Command & Description
1	SELECT Retrieves certain records from one or more tables.
2	INSERT

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	Creates a record.
3	UPDATE Modifies records.
4	DELETE Deletes records.

DCL - Data Control Language

	Command & Description
1	GRANT Gives a privilege to user.
2	REVOKE Takes back privileges granted from user.

DQL - Data Query Language

	Command & Description
1	SELECT The SELECT statement is used to retrieve data from one or more tables.

2	DISTINCT The DISTINCT keyword is used with SELECT to retrieve unique values from a specified column or a combination of columns.
3	FROM The FROM clause specifies the table or tables from which you want to retrieve data.
4	WHERE The WHERE clause is used to filter rows based on a specified condition. It allows you to retrieve only the rows that meet the criteria you specify.
5	ORDER BY The ORDER BY clause is used to sort the result set in ascending (ASC) or descending (DESC) order based on one or more columns.
6	GROUP BY The GROUP BY clause is used to group rows with the same values in one or more columns into summary rows.
7	HAVING The HAVING clause is used to filter the results of a GROUP BY query based on a condition applied to the aggregated values.

WHAT DO YOU MEAN BY TABLE AND FIELD IN SQL?

A table refers to a collection of data in an organised manner in form of rows and columns. A field refers to the number of columns in a table. For example:

Table: StudentInformation

Field: StudentId, StudentName, StudentMarks

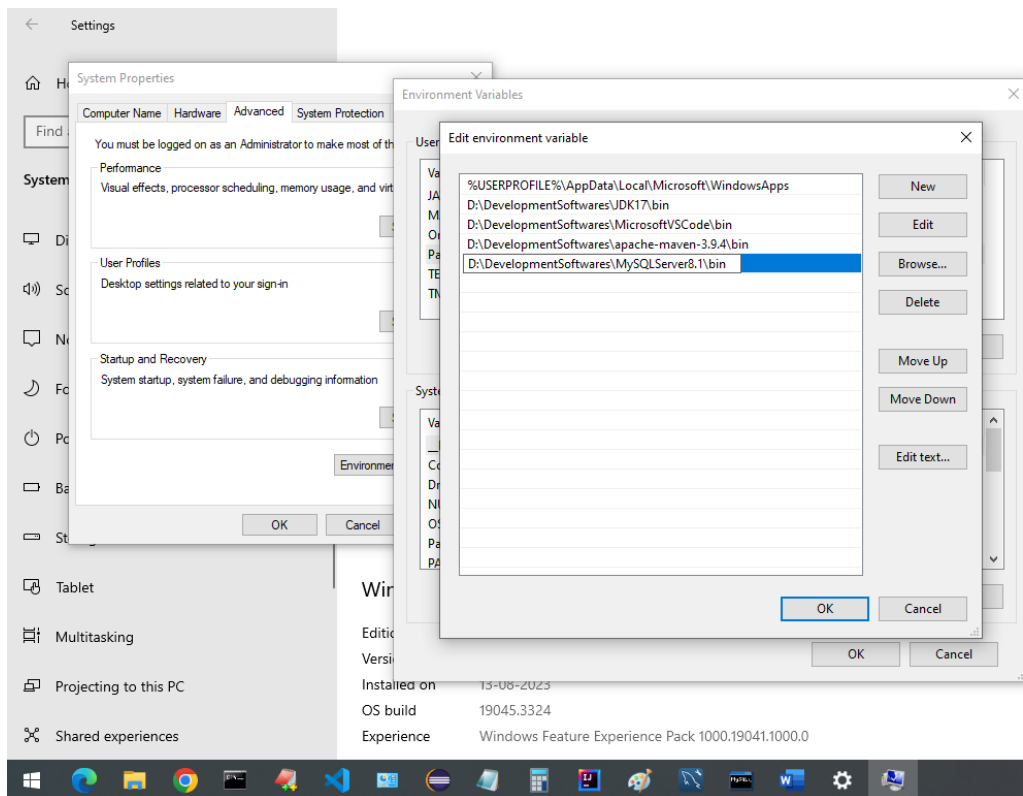
Please follow the link to Learn how download and install MySQL Database and MySQL Workbench

<https://rb.gy/3hcwf>

Note: If you are getting error while installing MySQL Server and MySQL Workbench like 'MySql Workbench installer requires Visual C++ 2015' then follow https://aka.ms/vs/17/release/vc_redist.x64.exe this link and download and install this piece of software.

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To Access the SQL Prompt from the windows command Line client set the path



The screenshot shows the Windows Settings application with the 'System' section open. The 'Advanced' tab is selected, and the 'Environment Variables' link is visible. A dialog box titled 'Edit environment variable' is open, showing a list of environment variables. The variable 'D:\DevelopmentSoftwares\MySQLServer8.1\bin' is selected and highlighted in blue. The 'OK' button is visible at the bottom of the dialog.

System Properties

Computer Name | Hardware | Advanced | System Protection

You must be logged on as an Administrator to make most of the changes.

Performance
Visual effects, processor scheduling, memory usage, and virtual memory.

User Profiles
Desktop settings related to your sign-in.

Startup and Recovery
System startup, system failure, and debugging information.

Environment Variables

Edit environment variable

%USERPROFILE%\AppData\Local\Microsoft\WindowsApps
D:\DevelopmentSoftwares\JDK17\bin
D:\DevelopmentSoftwares\Microsoft\VSCode\bin
D:\DevelopmentSoftwares\apache-maven-3.9.4\bin
D:\DevelopmentSoftwares\MySQLServer8.1\bin

New Edit Browse... Delete Move Up Move Down Edit text... OK Cancel

Related settings

[BitLocker settings](#)

[Device Manager](#)

[Remote desktop](#)

[System protection](#)

[Advanced system settings](#)

[Rename this PC \(advanced\)](#)

Help from the web

[Finding out how many cores my processor has](#)

[Checking multiple Languages support](#)

Command Prompt - mysql -u root -p

```
C:\Users\vijay>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 37
Server version: 8.1.0 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

TO CREATE A NEW USER

```
CREATE USER 'new_user'@'localhost' IDENTIFIED BY  
'password';
```

new_user is the name we've given to our new user account and the IDENTIFIED BY 'password' section sets a passcode for this user. You can replace these values with your own, inside the quotation marks.

In order to grant all privileges of the database for a newly created user, execute the following command:

```
GRANT ALL PRIVILEGES ON * . * TO 'new_user'@'localhost';
```

For changes to take effect immediately flush these privileges by typing in the command:

```
FLUSH PRIVILEGES;
```

TO DISPLAY ALL THE USERS

```
mysql> SELECT user, host FROM mysql.user;
```

SEMICOLON AFTER SQL STATEMENTS?

- Some database systems require a semicolon at the end of each SQL statement.
- Semicolon is the standard way to separate each SQL statement in database systems that allow more than one SQL statement to be executed in the same call to the server.

CREATE NEW USER WITH PASSWORD

```
mysql> CREATE USER 'manager'@'localhost' IDENTIFIED BY  
'admin';
```

```
mysql> CREATE USER 'vijay'@'localhost' IDENTIFIED BY  
'admin';
```

DROP EXISTING USER

```
mysql> DROP USER 'manager'@'localhost';
```

```
mysql> DROP USER 'vijay'@'localhost';
```

GRANT ALL PRIVILEGES TO THE NEW USER

```
GRANT ALL PRIVILEGES ON *.* TO 'vijay'@'localhost';
```

TO CHECK CURRENT USER PRIVILEGES

```
mysql> SHOW GRANTS FOR 'root'@'localhost';
```

TO GIVE ALL THE PRIVILEGES

```
mysql> GRANT ALL PRIVILEGES ON * . * TO 'root'@'localhost';
```

```
mysql> GRANT ALL PRIVILEGES ON * . * TO  
'vijay'@'localhost';
```

FOR CHANGES TO TAKE EFFECT IMMEDIATELY

```
mysql> FLUSH PRIVILEGES;
```

Note: Starting from MySQL 5.7.3, the FLUSH PRIVILEGES; statement is no longer strictly required after executing GRANT or REVOKE statements. The server automatically reloads the grant tables in these cases.

TO OPEN SQL PROMPT USING NEW USER

```
Command Prompt - mysql -u manager -p
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\VIJAYS_PROGRAMMING>mysql -u manager -p
Enter password:
ERROR 1045 (28000): Access denied for user 'manager'@'localhost' (using password: NO)

C:\Users\VIJAYS_PROGRAMMING>mysql -u manager -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.1.0 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
Command Prompt - mysql -u vijay -p
Microsoft Windows [Version 10.0.19045.3324]
(c) Microsoft Corporation. All rights reserved.

C:\Users\vijay>mysql -u vijay -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 39
Server version: 8.1.0 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

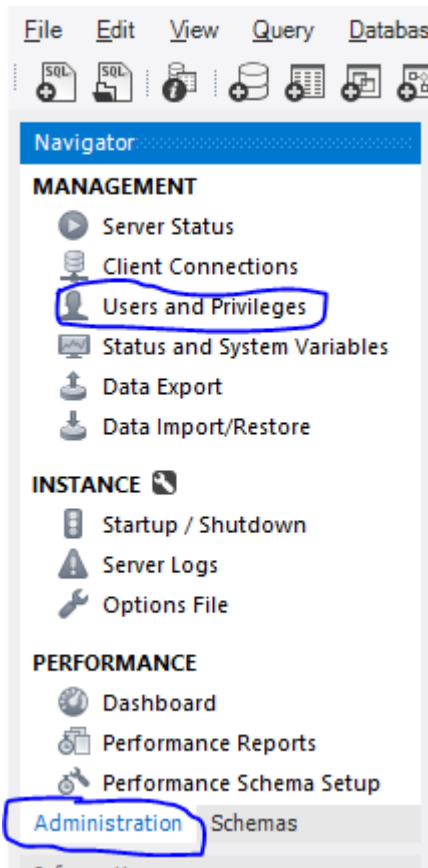
mysql>
```

TO CREATE A NEW USER IN THE MYSQL WORKBENCH

1. Log in to any connection

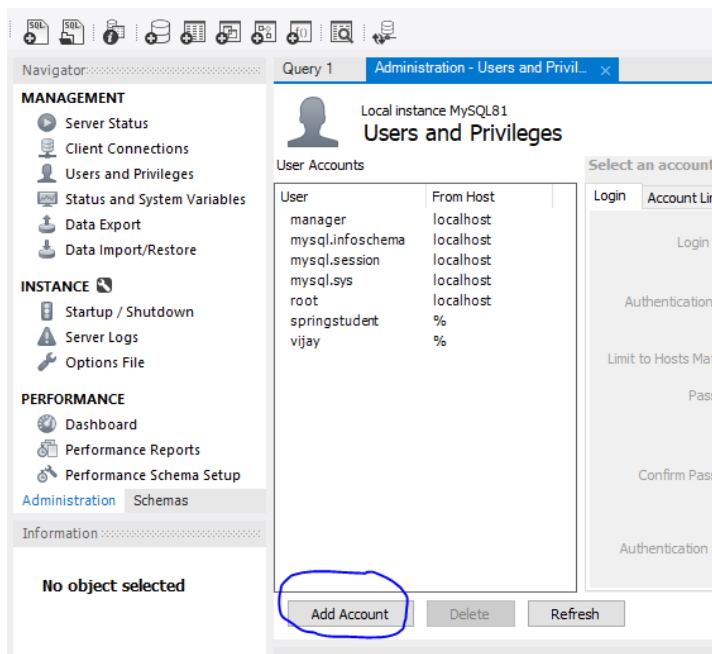
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2. Click on Administration on the left hand side



3. Click on Users and Privileges

4. Click on Add account to create a new account



5. Fill in the details

Note: Authentication type should be same as other accounts(check for root)

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Local instance MySQL8.1
Users and Privileges

User Accounts

User	From Host
kumar	%
manager	localhost
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost
springstudent	%
vijay	%

Details for account kumar@%

Login Account Limits Administrative Roles Schema Privileges

Login Name: You may create multiple accounts with the same name to connect from different hosts.

Authentication Type: For the standard password and/or host based authentication, select 'Standard'.

Limit to Hosts Matching: % and _ wildcards may be used

Password: Type a password to reset it.

Weak password.

Confirm Password: Enter password again to confirm.

Authentication String: □3 Authentication plugin specific parameters.

See the plugin documentation for valid values and details

Add Account Delete Refresh Revert Apply

6. Click on Apply and Refresh

TO ADD A NEW CONNECTION TO THE MYSQL WORKBENCH HOME

MySQL Workbench

Local instance MySQL8.1 - Wamin.x Migration x

File Edit View Database Tools Scripting Help

Welcome to MySQL Workbench
create and design your database

Browse Documentation

MySQL Connections

Local instance MySQL8.1
root localhost:3306

springstudent
springstudent 127.0.0.1:3306

Setup New Connection

Connection Name:

Connection Method: Standard (TCP/IP)

Parameters SSL Advanced

Hostname: Port:

Username:

Password: Store in Vault ... Clear

Default Schema:

Configure Server Management...

Test Connection Cancel OK

MySQL Workbench

Connection Warning

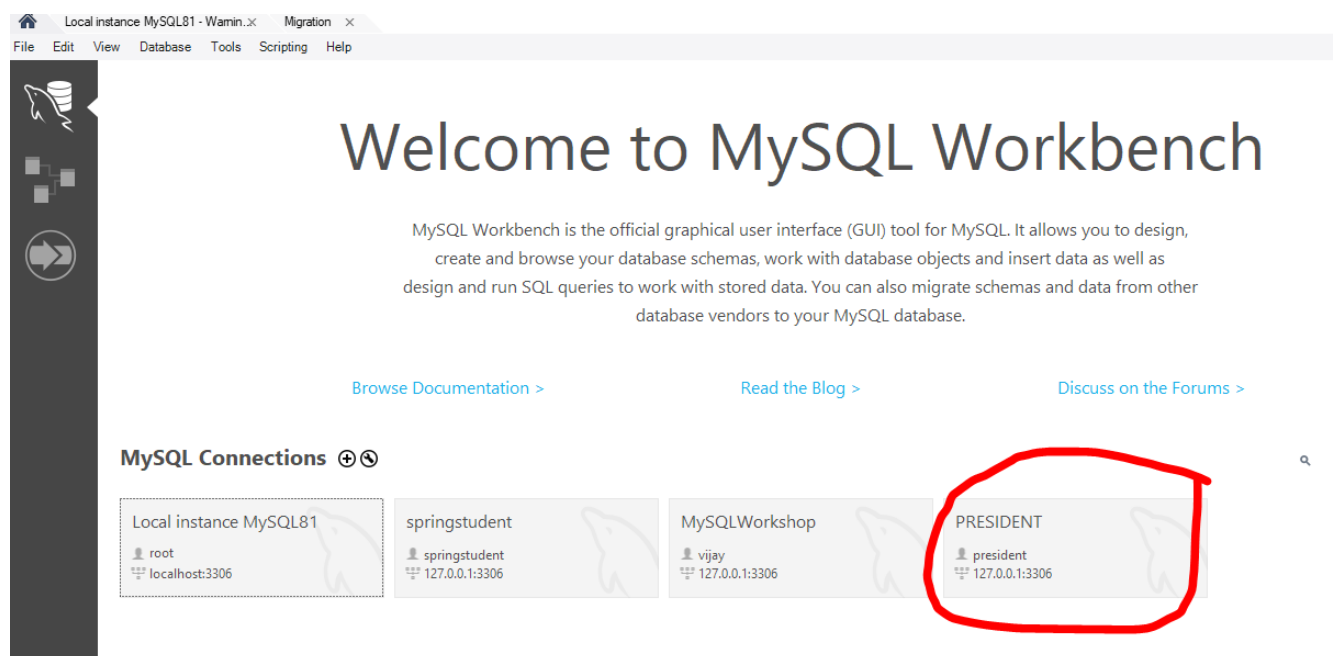
Incompatible/nonstandard server version or connection protocol detected (8.1.0).

A connection to this database can be established but some MySQL Workbench features may not work properly since the database is not fully compatible with the supported versions of MySQL.

MySQL Workbench is developed and tested for MySQL Server versions 5.6, 5.7 and 8.0

Continue Anyway Cancel

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Note: While creating the connection the user must be available(created already). Password is the user password that you have given at the time of creating a user.

TO CLEAR THE SCREEN IN MYSQL

```
mysql> \! Cls
```

TO DISPLAY ALL THE DATABASES

SHOW DATABASES command to get list of databases. Run the following query to show list of databases.

```
mysql> SHOW DATABASES;
```

```
+-----+
| Database          |
+-----+
| information_schema |
```

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mysql	
mysql_notes	
performance_schema	
student_tracker	
sys	
+-----+	

TO CREATE A NEW DATABASE

```
mysql> CREATE DATABASE MYSQL_NOTES;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SHOW DATABASES;  
+-----+  
| Database | || +-----+ | |
| | information_schema | | |
| | mysql | | |
| | mysql_notes | | |
| | performance_schema | | |
| | student_tracker | | |
| | sys | | |
| +-----+ | |

```

TO DELETE A DATABASE

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```
mysql> DROP DATABASE MYSQL_NOTES;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> SHOW DATABASES;
```

```
+-----+
| Database          |
+-----+
| information_schema |
| mysql              |
| performance_schema |
| student_tracker    |
| sys                |
+-----+
```

TO SET OR SELECT A DATABASE

- Before doing anything first we need to connect to a database.

```
mysql> USE MYSQL_NOTES;
```

Database changed

TO CHECK CURRENTLY WHICH DATABASE YOU ARE IN

```
mysql> SELECT DATABASE();
```

```
+-----+
```

FSD Training Program

```
| DATABASE() |
```

```
+-----+
```

```
| mysql_notes |
```

```
+-----+
```

1 row in set (0.00 sec)

CREATING A SIMPLE TABLE

```
CREATE TABLE STUDENT (ID INTEGER, FIRST_NAME VARCHAR(90),  
AGE INTEGER, COURSE VARCHAR(10));
```

Query OK, 0 rows affected (0.03 sec)

- INTEGER is a data type synonym for INT.
- You can use both INT and INTEGER datatype to specify number types.

```
mysql> INSERT INTO STUDENT VALUES (101, 'ARUN', 20, 'CSE');
```

Query OK, 1 row affected (0.02 sec)

```
mysql> INSERT INTO STUDENT VALUES (102, 'BHAVESH', 21,  
'ISE');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (103, 'CHAITANYA', 22,  
'ECE');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (104, 'DEEPIKA', 23,  
'MECH');
```


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Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (105, 'DHANUSH', 24, 'DS');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (106, 'EKTA', 25, 'AI');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (107, 'GAURAV', 26, 'ARCH');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (108, 'HARSHITA', 27, 'CHEMICAL');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (109, 'ISHAAN', 28, 'CIVIL');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO STUDENT VALUES (110, 'JANU', 29, 'EEE');
```

Query OK, 1 row affected (0.00 sec)

TO DISPLAY ALL THE RECORDS WITH ALL THE COLUMNS

```
mysql> SELECT * FROM STUDENT;
```

```
+-----+-----+-----+-----+
```

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ID	FIRST_NAME	AGE	COURSE
101	ARUN	20	CSE
102	BHAVESH	21	ISE
103	CHAITANYA	22	ECE
104	DEEPIKA	23	MECH
105	DHANUSH	24	DS
106	EKTA	25	AI
107	GAURAV	26	ARCH
108	HARSHITA	27	CHEMICAL
109	ISHAAN	28	CIVIL
110	JANU	29	EEE

10 rows in set (0.00 sec)

- By default, columns will be allowing duplicate values.

```
mysql> INSERT INTO STUDENT VALUES (110, 'JANU', 29, 'EEE');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM STUDENT;
```

ID	FIRST_NAME	AGE	COURSE
101	ARUN	20	CSE
102	BHAVESH	21	ISE
103	CHAITANYA	22	ECE

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```
| 104 | DEEPIKA | 23 | MECH |
| 105 | DHANUSH | 24 | DS |
| 106 | EKTA | 25 | AI |
| 107 | GAURAV | 26 | ARCH |
| 108 | HARSHITA | 27 | CHEMICAL |
| 109 | ISHAAN | 28 | CIVIL |
| 110 | JANU | 29 | EEE |
| 110 | JANU | 29 | EEE |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

- By default, columns will be allowing 'null' values.
- In MySQL, NULL represents an unknown or missing value in a database table.

```
mysql> INSERT INTO STUDENT(ID, FIRST_NAME) VALUES(111,
'PRANAV');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> SELECT * FROM STUDENT;
```

```
+-----+-----+-----+-----+
| ID    | FIRST_NAME | AGE  | COURSE |
+-----+-----+-----+-----+
| 101   | ARUN       | 20   | CSE    |
| 102   | BHAVESH    | 21   | ISE    |
| 103   | CHAITANYA  | 22   | ECE    |
| 104   | DEEPIKA    | 23   | MECH   |
| 105   | DHANUSH    | 24   | DS     |
```

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	106		EKTA		25		AI	
	107		GAURAV		26		ARCH	
	108		HARSHITA		27		CHEMICAL	
	109		ISHAAN		28		CIVIL	
	110		JANU		29		EEE	
	110		JANU		29		EEE	
	111		PRANAV		NULL		NULL	

+-----+-----+-----+-----+

12 rows in set (0.00 sec)

TO UPDATE SINGLE COLUMN IN THE RECORD

```
mysql> UPDATE STUDENT SET FIRST_NAME = 'RISHI' WHERE ID = 108;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM STUDENT;
```

+-----+-----+-----+-----+
ID FIRST_NAME AGE COURSE
+-----+-----+-----+-----+
101 ARUN 20 CSE
102 BHAVESH 21 ISE
103 CHAITANYA 22 ECE
104 DEEPIKA 23 MECH
105 DHANUSH 24 DS
106 EKTA 25 AI

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	107	GAURAV		26	ARCH	
	108	RISHI		27	CHEMICAL	
	109	ISHAAN		28	CIVIL	
	110	JANU		29	EEE	
	110	JANU		29	EEE	
	111	PRANAV	NULL	NULL		

+-----+-----+-----+-----+

12 rows in set (0.00 sec)

TO UPDATE MULTIPLE COLUMNS IN THE RECORD

```
mysql> UPDATE STUDENT SET ID = 112, FIRST_NAME = 'RAJAT',  
AGE = 29, COURSE = 'AUTOMOBILE' WHERE ID = 105;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM STUDENT;
```

+-----+-----+-----+-----+				
ID	FIRST_NAME	AGE	COURSE	
+-----+-----+-----+-----+				
101	ARUN	20	CSE	
102	BHAVESH	21	ISE	
103	CHAITANYA	22	ECE	
104	DEEPIKA	23	MECH	
112	RAJAT	29	AUTOMOBILE	
106	EKTA	25	AI	
107	GAURAV	26	ARCH	

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	108		RISHI		27		CHEMICAL	
	109		ISHAAN		28		CIVIL	
	110		JANU		29		EEE	
	110		JANU		29		EEE	
	111		PRANAV		NULL		NULL	

+-----+-----+-----+-----+

12 rows in set (0.00 sec)

IS NULL

```
mysql> UPDATE STUDENT SET AGE = 30 WHERE AGE IS NULL;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> SELECT * FROM STUDENT;
```

	ID		FIRST_NAME		AGE		COURSE	
--	----	--	------------	--	-----	--	--------	--

+-----+-----+-----+-----+

	101		ARUN		20		CSE	
	102		BHAVESH		21		ISE	
	103		CHAITANYA		22		ECE	
	104		DEEPIKA		23		MECH	
	112		RAJAT		29		AUTOMOBILE	
	106		EKTA		25		AI	
	107		GAURAV		26		ARCH	
	108		RISHI		27		CHEMICAL	
	109		ISHAAN		28		CIVIL	

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	110		JANU		29		EEE	
	110		JANU		29		EEE	
	111		PRANAV		30		NULL	
+-----+-----+-----+-----+								

12 rows in set (0.00 sec)

```
mysql> UPDATE STUDENT SET AGE = 20 WHERE FIRST_NAME IS NOT NULL;
```

Query OK, 11 rows affected (0.01 sec)

Rows matched: 12 Changed: 11 Warnings: 0

```
mysql> SELECT * FROM STUDENT;
```

+-----+-----+-----+-----+								
	ID		FIRST_NAME		AGE		COURSE	
+-----+-----+-----+-----+								
	101		ARUN		20		CSE	
	102		BHAVESH		20		ISE	
	103		CHAITANYA		20		ECE	
	104		DEEPIKA		20		MECH	
	112		RAJAT		20		AUTOMOBILE	
	106		EKTA		20		AI	
	107		GAURAV		20		ARCH	
	108		RISHI		20		CHEMICAL	
	109		ISHAAN		20		CIVIL	
	110		JANU		20		EEE	
	110		JANU		20		EEE	
	111		PRANAV		20		NULL	

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+-----+-----+-----+-----+

12 rows in set (0.00 sec)

```
mysql> DELETE FROM STUDENT;
```

Query OK, 12 rows affected (0.01 sec)

```
INSERT INTO STUDENT VALUES (101, 'ARUN', 20, 'CSE');
```

```
INSERT INTO STUDENT VALUES (102, 'BHAVESH', 21, 'ISE');
```

```
INSERT INTO STUDENT VALUES (103, 'CHAITANYA', 22, 'ECE');
```

```
INSERT INTO STUDENT VALUES (104, 'DEEPIKA', 23, 'MECH');
```

```
INSERT INTO STUDENT VALUES (105, 'DHANUSH', 24, 'DS');
```

```
INSERT INTO STUDENT VALUES (106, 'EKTA', 25, 'AI');
```

```
INSERT INTO STUDENT VALUES (107, 'GAURAV', 26, 'ARCH');
```

```
INSERT INTO STUDENT VALUES (108, 'HARSHITA', 27,  
'CHEMICAL');
```

```
INSERT INTO STUDENT VALUES (109, 'ISHAAN', 28, 'CIVIL');
```

```
INSERT INTO STUDENT VALUES (110, 'JANU', 29, 'EEE');
```

```
mysql> SELECT * FROM STUDENT;
```

+-----+-----+-----+-----+

ID	FIRST_NAME	AGE	COURSE	
----	------------	-----	--------	--

+-----+-----+-----+-----+

101	ARUN	20	CSE	
-----	------	----	-----	--

102	BHAVESH	21	ISE	
-----	---------	----	-----	--

103	CHAITANYA	22	ECE	
-----	-----------	----	-----	--

104	DEEPIKA	23	MECH	
-----	---------	----	------	--

105	DHANUSH	24	DS	
-----	---------	----	----	--

106	EKTA	25	AI	
-----	------	----	----	--

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	107	GAURAV		26	ARCH	
	108	HARSHITA		27	CHEMICAL	
	109	ISHAAN		28	CIVIL	
	110	JANU		29	EEE	

+-----+-----+-----+-----+

10 rows in set (0.00 sec)

```
mysql> UPDATE STUDENT SET FIRST_NAME = 'ANANYA' WHERE ID > 104;
```

Query OK, 6 rows affected (0.01 sec)

Rows matched: 6 Changed: 6 Warnings: 0

```
mysql> SELECT * FROM STUDENT;
```

+-----+-----+-----+-----+

	ID		FIRST_NAME		AGE		COURSE	
--	----	--	------------	--	-----	--	--------	--

+-----+-----+-----+-----+

	101		ARUN		20		CSE	
--	-----	--	------	--	----	--	-----	--

	102		BHAVESH		21		ISE	
--	-----	--	---------	--	----	--	-----	--

	103		CHAITANYA		22		ECE	
--	-----	--	-----------	--	----	--	-----	--

	104		DEEPIKA		23		MECH	
--	-----	--	---------	--	----	--	------	--

	105		ANANYA		24		DS	
--	-----	--	--------	--	----	--	----	--

	106		ANANYA		25		AI	
--	-----	--	--------	--	----	--	----	--

	107		ANANYA		26		ARCH	
--	-----	--	--------	--	----	--	------	--

	108		ANANYA		27		CHEMICAL	
--	-----	--	--------	--	----	--	----------	--

	109		ANANYA		28		CIVIL	
--	-----	--	--------	--	----	--	-------	--

	110		ANANYA		29		EEE	
--	-----	--	--------	--	----	--	-----	--

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+-----+-----+-----+-----+

10 rows in set (0.00 sec)

```
mysql> UPDATE STUDENT SET AGE = 22, ID = 10 WHERE ID <= 107;
```

Query OK, 7 rows affected (0.00 sec)

Rows matched: 7 Changed: 7 Warnings: 0

```
mysql> SELECT * FROM STUDENT;
```

+-----+-----+-----+-----+

ID	FIRST_NAME	AGE	COURSE
----	------------	-----	--------

+-----+-----+-----+-----+

10	ARUN	22	CSE
----	------	----	-----

10	BHAVESH	22	ISE
----	---------	----	-----

10	CHAITANYA	22	ECE
----	-----------	----	-----

10	DEEPIKA	22	MECH
----	---------	----	------

10	ANANYA	22	DS
----	--------	----	----

10	ANANYA	22	AI
----	--------	----	----

10	ANANYA	22	ARCH
----	--------	----	------

108	ANANYA	27	CHEMICAL
-----	--------	----	----------

109	ANANYA	28	CIVIL
-----	--------	----	-------

110	ANANYA	29	EEE
-----	--------	----	-----

+-----+-----+-----+-----+

10 rows in set (0.00 sec)

```
mysql> UPDATE STUDENT SET AGE = 42, ID = 15;
```

FSD Training Program

Query OK, 10 rows affected (0.00 sec)

Rows matched: 10 Changed: 10 Warnings: 0

```
mysql> SELECT * FROM STUDENT;
```

ID	FIRST_NAME	AGE	COURSE
15	ARUN	42	CSE
15	BHAVESH	42	ISE
15	CHAITANYA	42	ECE
15	DEEPIKA	42	MECH
15	ANANYA	42	DS
15	ANANYA	42	AI
15	ANANYA	42	ARCH
15	ANANYA	42	CHEMICAL
15	ANANYA	42	CIVIL
15	ANANYA	42	EEE

10 rows in set (0.00 sec)

```
mysql> DELETE FROM STUDENT;
```

Query OK, 10 rows affected (0.01 sec)

```
INSERT INTO STUDENT VALUES (101, 'ARUN', 20, 'CSE');
```

```
INSERT INTO STUDENT VALUES (102, 'BHAVESH', 21, 'ISE');
```

```
INSERT INTO STUDENT VALUES (103, 'CHAITANYA', 22, 'ECE');
```

```
INSERT INTO STUDENT VALUES (104, 'DEEPIKA', 23, 'MECH');
```

```
INSERT INTO STUDENT VALUES (105, 'DHANUSH', 24, 'DS');
```

FSD Training Program

```
INSERT INTO STUDENT VALUES (107, 'GAURAV', 26, 'ARCH');
```

```
INSERT INTO STUDENT VALUES (108, 'HARSHITA', 27,  
'CHEMICAL');
```

```
INSERT INTO STUDENT VALUES (109, 'ISHAAN', 28, 'CIVIL');
```

```
INSERT INTO STUDENT VALUES (110, 'JANU', 29, 'EEE');
```

```
mysql> SELECT * FROM STUDENT;
```

ID	FIRST_NAME	AGE	COURSE
101	ARUN	20	CSE
102	BHAVESH	21	ISE
103	CHAITANYA	22	ECE
104	DEEPIKA	23	MECH
105	DHANUSH	24	DS
106	EKTA	25	AI
107	GAURAV	26	ARCH
108	HARSHITA	27	CHEMICAL
109	ISHAAN	28	CIVIL
110	JANU	29	EEE

```
10 rows in set (0.00 sec)
```

```
mysql> DELETE FROM STUDENT WHERE ID = 6;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELETE FROM STUDENT WHERE FIRST_NAME = 'ISHAAN';
```

FSD Training Program

Query OK, 1 row affected (0.00 sec)

```
mysql> SELECT * FROM STUDENT;
```

ID	FIRST_NAME	AGE	COURSE
101	ARUN	20	CSE
102	BHAVESH	21	ISE
103	CHAITANYA	22	ECE
104	DEEPIKA	23	MECH
105	DHANUSH	24	DS
106	EKTA	25	AI
107	GAURAV	26	ARCH
108	HARSHITA	27	CHEMICAL
110	JANU	29	EEE

9 rows in set (0.00 sec)

```
mysql> DELETE FROM STUDENT;
```

Query OK, 9 rows affected (0.01 sec)

```
mysql> SELECT * FROM STUDENT;
```

Empty set (0.00 sec)

```
mysql> DROP TABLE STUDENT;
```

Query OK, 0 rows affected (0.02 sec)

FSD Training Program

```
mysql> CREATE TABLE EMPLOYEE (ID INTEGER, FIRST_NAME  
VARCHAR(90), LAST_NAME VARCHAR(90), AGE INTEGER, SALARY  
INTEGER, EMAIL VARCHAR(90));
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> SELECT * FROM EMPLOYEE;
```

Empty set (0.00 sec)

```
INSERT INTO EMPLOYEE VALUES(1, ' ARUN', ' PATEL', 22,  
40000, ' ARUN@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(2, ' BHAVESH', ' SHARMA', 24,  
30000, 'BHAVESH@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(3, ' CHAITANYA', ' SINGH', 23,  
50000, 'CHAITANYA@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(4, ' DEEPIKA', ' GUPTA', 26,  
55000, 'DEEPIKA@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(5, ' DHANUSH', ' KUMAR', 25,  
20000, 'DHANUSH@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(6, ' EKTA', ' YADAV', 28,  
35000, 'YADAV@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(7, ' GAURAV', ' RAO', 21,  
60000, 'GAURAV@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(8, ' HARSHITA', ' REDDY', 29,  
56000, 'HARSHITA@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(9, ' ISHAAN', ' REDDY', 32,  
70000, 'ISHAAN@GCOMPANY.IN');
```

```
INSERT INTO EMPLOYEE VALUES(10, ' JANU', ' MUKHERJEE', 30,  
53000, 'JANU@GCOMPANY.IN');
```

FSD Training Program

```
mysql> SELECT * FROM EMPLOYEE;
```

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
1	ARUN	PATEL	22	40000	ARUN@GCOMPANY.IN
2	BHAVESH	SHARMA	24	30000	BHAVESH@GCOMPANY.IN
3	CHAITANYA	SINGH	23	50000	CHAITANYA@GCOMPANY.IN
4	DEEPIKA	GUPTA	26	55000	DEEPIKA@GCOMPANY.IN
5	DHANUSH	KUMAR	25	20000	DHANUSH@GCOMPANY.IN
6	EKTA	YADAV	28	35000	YADAV@GCOMPANY.IN
7	GAURAV	RAO	21	60000	GAURAV@GCOMPANY.IN
8	HARSHITA	REDDY	29	56000	HARSHITA@GCOMPANY.IN
9	ISHAAN	REDDY	32	70000	ISHAAN@GCOMPANY.IN
10	JANU	MUKHERJEE	30	53000	JANU@GCOMPANY.IN

10 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE WHERE ID = 5;
```

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
5	DHANUSH	KUMAR	25	20000	DHANUSH@GCOMPANY.IN

1 row in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE WHERE ID > 5;
```

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
----	------------	-----------	-----	--------	-------

FSD Training Program

6	EKTA	YADAV	28	35000	YADAV@GCOMPANY.IN
7	GAURAV	RAO	21	60000	GAURAV@GCOMPANY.IN
8	HARSHITA	REDDY	29	56000	HARSHITA@GCOMPANY.IN
9	ISHAAN	REDDY	32	70000	ISHAAN@GCOMPANY.IN
10	JANU	MUKHERJEE	30	53000	JANU@GCOMPANY.IN

+-----+-----+-----+-----+-----+-----+

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE WHERE AGE BETWEEN 22 AND 28;
```

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
1	ARUN	PATEL	22	40000	ARUN@GCOMPANY.IN
2	BHAVESH	SHARMA	24	30000	BHAVESH@GCOMPANY.IN
3	CHAITANYA	SINGH	23	50000	CHAITANYA@GCOMPANY.IN
4	DEEPIKA	GUPTA	26	55000	DEEPIKA@GCOMPANY.IN
5	DHANUSH	KUMAR	25	20000	DHANUSH@GCOMPANY.IN
6	EKTA	YADAV	28	35000	YADAV@GCOMPANY.IN

+-----+-----+-----+-----+-----+-----+

6 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE WHERE AGE NOT BETWEEN 22 AND 28;
```

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
7	GAURAV	RAO	21	60000	GAURAV@GCOMPANY.IN
8	HARSHITA	REDDY	29	56000	HARSHITA@GCOMPANY.IN
9	ISHAAN	REDDY	32	70000	ISHAAN@GCOMPANY.IN
10	JANU	MUKHERJEE	30	53000	JANU@GCOMPANY.IN

+-----+-----+-----+-----+-----+-----+

4 rows in set (0.00 sec)

FSD Training Program

```
mysql> SELECT * FROM EMPLOYEE WHERE SALARY IN (40000, 55000, 70000);
```

```
+-----+-----+-----+-----+-----+-----+
| ID    | FIRST_NAME | LAST_NAME | AGE  | SALARY | EMAIL                                |
+-----+-----+-----+-----+-----+-----+
| 1     | ARUN       | PATEL     | 22   | 40000  | ARUN@GCOMPANY.IN                  |
| 4     | DEEPIKA    | GUPTA     | 26   | 55000  | DEEPIKA@GCOMPANY.IN              |
| 9     | ISHAAN     | REDDY     | 32   | 70000  | ISHAAN@GCOMPANY.IN              |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE WHERE SALARY NOT IN (40000, 55000, 70000);
```

```
+-----+-----+-----+-----+-----+-----+
| ID    | FIRST_NAME | LAST_NAME | AGE  | SALARY | EMAIL                                |
+-----+-----+-----+-----+-----+-----+
| 2     | BHAVESH    | SHARMA    | 24   | 30000  | BHAVESH@GCOMPANY.IN              |
| 3     | CHAITANYA  | SINGH     | 23   | 50000  | CHAITANYA@GCOMPANY.IN            |
| 5     | DHANUSH    | KUMAR     | 25   | 20000  | DHANUSH@GCOMPANY.IN              |
| 6     | EKTA       | YADAV     | 28   | 35000  | YADAV@GCOMPANY.IN                |
| 7     | GAURAV     | RAO       | 21   | 60000  | GAURAV@GCOMPANY.IN              |
| 8     | HARSHITA   | REDDY     | 29   | 56000  | HARSHITA@GCOMPANY.IN            |
| 10    | JANU       | MUKHERJEE | 30   | 53000  | JANU@GCOMPANY.IN                 |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM EMPLOYEE WHERE FIRST_NAME LIKE '%R%';
```

```
+-----+-----+-----+-----+-----+-----+
| ID    | FIRST_NAME | LAST_NAME | AGE  | SALARY | EMAIL                                |
+-----+-----+-----+-----+-----+-----+
| 1     | ARUN       | PATEL     | 22   | 40000  | ARUN@GCOMPANY.IN                  |
+-----+-----+-----+-----+-----+-----+
```

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```
| 7 | GAURAV | RAO | 21 | 60000 | GAURAV@GCOMPANY.IN |
| 8 | HARSHITA | REDDY | 29 | 56000 | HARSHITA@GCOMPANY.IN |
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE WHERE FIRST_NAME LIKE '%A';
```

```
+-----+-----+-----+-----+-----+-----+
| ID | FIRST_NAME | LAST_NAME | AGE | SALARY | EMAIL |
+-----+-----+-----+-----+-----+-----+
| 3 | CHAITANYA | SINGH | 23 | 50000 | CHAITANYA@GCOMPANY.IN |
| 4 | DEEPIKA | GUPTA | 26 | 55000 | DEEPIKA@GCOMPANY.IN |
| 6 | EKTA | YADAV | 28 | 35000 | YADAV@GCOMPANY.IN |
| 8 | HARSHITA | REDDY | 29 | 56000 | HARSHITA@GCOMPANY.IN |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> SELECT FIRST_NAME, AGE FROM EMPLOYEE;
```

```
+-----+-----+
| FIRST_NAME | AGE |
+-----+-----+
| ARUN | 22 |
| BHAVESH | 24 |
| CHAITANYA | 23 |
| DEEPIKA | 26 |
| DHANUSH | 25 |
| EKTA | 28 |
| GAURAV | 21 |
| HARSHITA | 29 |
| ISHAAN | 32 |
| JANU | 30 |
+-----+-----+
```

FSD Training Program

10 rows in set (0.00 sec)

```
mysql> SELECT FIRST_NAME, AGE, EMAIL FROM EMPLOYEE;
```

+-----+-----+-----+		
FIRST_NAME	AGE	EMAIL
+-----+-----+-----+		
ARUN	22	ARUN@GCOMPANY.IN
BHAVESH	24	BHAVESH@GCOMPANY.IN
CHAITANYA	23	CHAITANYA@GCOMPANY.IN
DEEPIKA	26	DEEPIKA@GCOMPANY.IN
DHANUSH	25	DHANUSH@GCOMPANY.IN
EKTA	28	YADAV@GCOMPANY.IN
GAURAV	21	GAURAV@GCOMPANY.IN
HARSHITA	29	HARSHITA@GCOMPANY.IN
ISHAAN	32	ISHAAN@GCOMPANY.IN
JANU	30	JANU@GCOMPANY.IN
+-----+-----+-----+		

10 rows in set (0.00 sec)

```
mysql> SELECT FIRST_NAME AS NAME, AGE AS EMPLOYEE_AGE,  
LAST_NAME FROM EMPLOYEE;
```

+-----+-----+-----+		
NAME	EMPLOYEE_AGE	LAST_NAME
+-----+-----+-----+		
ARUN	22	PATEL
BHAVESH	24	SHARMA
CHAITANYA	23	SINGH

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	DEEPIKA		26		GUPTA	
	DHANUSH		25		KUMAR	
	EKTA		28		YADAV	
	GAURAV		21		RAO	
	HARSHITA		29		REDDY	
	ISHAAN		32		REDDY	
	JANU		30		MUKHERJEE	

+-----+-----+-----+

10 rows in set (0.00 sec)

```
mysql> SELECT FIRST_NAME NAME, AGE EMPLOYEE_AGE, LAST_NAME  
FROM EMPLOYEE;
```

+-----+-----+-----+						
	NAME		EMPLOYEE_AGE		LAST_NAME	
+-----+-----+-----+						
	ARUN		22		PATEL	
	BHAVESH		24		SHARMA	
	CHAITANYA		23		SINGH	
	DEEPIKA		26		GUPTA	
	DHANUSH		25		KUMAR	
	EKTA		28		YADAV	
	GAURAV		21		RAO	
	HARSHITA		29		REDDY	
	ISHAAN		32		REDDY	
	JANU		30		MUKHERJEE	

+-----+-----+-----+

10 rows in set (0.00 sec)

FSD Training Program

```
mysql> SELECT COUNT(*) FROM EMPLOYEE;
```

```
+-----+
```

```
| COUNT(*) |
```

```
+-----+
```

```
|      10 |
```

```
+-----+
```

```
1 row in set (0.01 sec)
```

```
mysql> SELECT COUNT(*) AS "RECORDS COUNT" FROM EMPLOYEE;
```

```
+-----+
```

```
| RECORDS COUNT |
```

```
+-----+
```

```
|           10 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> SELECT COUNT(*) "RECORDS COUNT" FROM EMPLOYEE;
```

```
+-----+
```

```
| RECORDS COUNT |
```

```
+-----+
```

```
|           10 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> SELECT COUNT(AGE) "AGE COLUMN COUNT" FROM EMPLOYEE;
```

```
+-----+
```

```
| AGE COLUMN COUNT |
```

```
+-----+
```

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	10
--	----

+-----+

1 row in set (0.00 sec)

```
mysql> SELECT COUNT(LAST_NAME) "RECORDS COUNT" FROM  
EMPLOYEE;
```

+-----+

RECORDS COUNT

+-----+

10

+-----+

1 row in set (0.01 sec)

```
mysql> SELECT MAX(AGE) FROM EMPLOYEE;
```

+-----+

MAX(AGE)

+-----+

32

+-----+

1 row in set (0.00 sec)

```
mysql> SELECT MAX(AGE) AS "MAX AGE" FROM EMPLOYEE;
```

+-----+

MAX AGE

+-----+

32

+-----+

FSD Training Program

1 row in set (0.00 sec)

```
mysql> SELECT MIN(SALARY) FROM EMPLOYEE;
```

```
+-----+
```

```
| MIN(SALARY) |
```

```
+-----+
```

```
|      20000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT MIN(SALARY) MIN_SAL FROM EMPLOYEE;
```

```
+-----+
```

```
| MIN_SAL |
```

```
+-----+
```

```
|  20000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT MIN(SALARY) "MIN SAL" FROM EMPLOYEE;
```

```
+-----+
```

```
| MIN SAL |
```

```
+-----+
```

```
|  20000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT AVG(SALARY) FROM EMPLOYEE;
```

```
+-----+
```

```
| AVG(SALARY) |
```

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```
+-----+
```

```
| 46900.0000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT AVG(SALARY) "AVG SALARY" FROM EMPLOYEE;
```

```
+-----+
```

```
| AVG SALARY |
```

```
+-----+
```

```
| 46900.0000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT AVG(AGE) "AVG AGE" FROM EMPLOYEE;
```

```
+-----+
```

```
| AVG AGE |
```

```
+-----+
```

```
| 26.0000 |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT MIN(FIRST_NAME) FROM EMPLOYEE;
```

```
+-----+
```

```
| MIN(FIRST_NAME) |
```

```
+-----+
```

```
| ARUN           |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT MAX(FIRST_NAME) FROM EMPLOYEE;
```

```
+-----+
```


FSD Training Program

```
| MAX(FIRST_NAME) |
```

```
+-----+
```

```
| JANU |
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE ORDER BY FIRST_NAME;
```

- ORDER BY in MySQL is like telling the database how you want your results to be arranged or sorted when you retrieve them from a table.

- It is commonly used in conjunction with the SELECT statement.

```
+-----+-----+-----+-----+-----+-----+
| ID    | FIRST_NAME | LAST_NAME | AGE  | SALARY | EMAIL                                |
+-----+-----+-----+-----+-----+-----+
| 1     | ARUN       | PATEL     | 22   | 40000  | ARUN@GCOMPANY.IN                  |
| 2     | BHAVESH    | SHARMA    | 24   | 30000  | BHAVESH@GCOMPANY.IN               |
| 3     | CHAITANYA  | SINGH     | 23   | 50000  | CHAITANYA@GCOMPANY.IN             |
| 4     | DEEPIKA    | GUPTA     | 26   | 55000  | DEEPIKA@GCOMPANY.IN               |
| 5     | DHANUSH    | KUMAR     | 25   | 20000  | DHANUSH@GCOMPANY.IN               |
| 6     | EKTA       | YADAV     | 28   | 35000  | YADAV@GCOMPANY.IN                 |
| 7     | GAURAV     | RAO       | 21   | 60000  | GAURAV@GCOMPANY.IN                |
| 8     | HARSHITA   | REDDY     | 29   | 56000  | HARSHITA@GCOMPANY.IN              |
| 9     | ISHAAN     | REDDY     | 32   | 70000  | ISHAAN@GCOMPANY.IN                |
| 10    | JANU       | MUKHERJEE | 30   | 53000  | JANU@GCOMPANY.IN                  |
+-----+-----+-----+-----+-----+-----+
```

10 rows in set (0.00 sec)

```
mysql> SELECT * FROM EMPLOYEE ORDER BY FIRST_NAME ASC;
```

```
+-----+-----+-----+-----+-----+-----+
| ID    | FIRST_NAME | LAST_NAME | AGE  | SALARY | EMAIL                                |
+-----+-----+-----+-----+-----+-----+
| 1     | ARUN       | PATEL     | 22   | 40000  | ARUN@GCOMPANY.IN                  |
| 2     | BHAVESH    | SHARMA    | 24   | 30000  | BHAVESH@GCOMPANY.IN               |
```

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3	CHAITANYA	SINGH	23	50000	CHAITANYA@GCOMPANY.IN
4	DEEPIKA	GUPTA	26	55000	DEEPIKA@GCOMPANY.IN
5	DHANUSH	KUMAR	25	20000	DHANUSH@GCOMPANY.IN
6	EKTA	YADAV	28	35000	YADAV@GCOMPANY.IN
7	GAURAV	RAO	21	60000	GAURAV@GCOMPANY.IN
8	HARSHITA	REDDY	29	56000	HARSHITA@GCOMPANY.IN
9	ISHAAN	REDDY	32	70000	ISHAAN@GCOMPANY.IN
10	JANU	MUKHERJEE	30	53000	JANU@GCOMPANY.IN

+-----+-----+-----+-----+-----+-----+

10 rows in set (0.00 sec)

mysql> SELECT * FROM EMPLOYEE ORDER BY FIRST_NAME DESC;

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
10	JANU	MUKHERJEE	30	53000	JANU@GCOMPANY.IN
9	ISHAAN	REDDY	32	70000	ISHAAN@GCOMPANY.IN
8	HARSHITA	REDDY	29	56000	HARSHITA@GCOMPANY.IN
7	GAURAV	RAO	21	60000	GAURAV@GCOMPANY.IN
6	EKTA	YADAV	28	35000	YADAV@GCOMPANY.IN
5	DHANUSH	KUMAR	25	20000	DHANUSH@GCOMPANY.IN
4	DEEPIKA	GUPTA	26	55000	DEEPIKA@GCOMPANY.IN
3	CHAITANYA	SINGH	23	50000	CHAITANYA@GCOMPANY.IN
2	BHAVESH	SHARMA	24	30000	BHAVESH@GCOMPANY.IN
1	ARUN	PATEL	22	40000	ARUN@GCOMPANY.IN

+-----+-----+-----+-----+-----+-----+

10 rows in set (0.00 sec)

mysql> SELECT * FROM EMPLOYEE ORDER BY AGE;

ID	FIRST_NAME	LAST_NAME	AGE	SALARY	EMAIL
7	GAURAV	RAO	21	60000	GAURAV@GCOMPANY.IN
1	ARUN	PATEL	22	40000	ARUN@GCOMPANY.IN