

## Q1.How to insert data into mysql table?

Ans:

There are two ways to insert data into mysql

1. Insert data into all columns

Syntax:

Insert into tableName values(value1,value2);

```
MySQL 5.5 Command Line Cli x + v
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into student values(103,'deepak','0123CS2',62,60,61,62,63,64,310);
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into student values(104,'shivam','0123CS4');
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into student values(104,'shivam','0123CS4',null,null,null,null,null,null);
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> |
```

2. Insert data into specific column

Syntax:

Insert into tablename(column,column,column)

values(value1,value2,value3);

insert into student(sid,name,enroll)

values(105,'kartik','0123CS5');

insert into student(sid,name,enroll)

values(105,'kartik','0123CS5');

```
MySQL 5.5 Command Line Cli x + v
mysql> insert into student values(104,'shivam','0123CS4');
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into student values(104,'shivam','0123CS4',null,null,null,null,null,null,null);
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into student(sid,name,enroll) values(105,'kartik','0123CS5');
Query OK, 1 row affected (0.00 sec)

mysql> select * from student;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 105 | kartik | 0123CS5 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

Q2.How to update data in mysql table?

Ans: if we want to update data into the table then we should go for update command(DML).

Syntax:

Update tablename set

column=value,column=value,column=value where pk=?

```
MySQL 5.5 Command Line Cli x + v
mysql> insert into student values(104,'shivam','0123CS4');
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into student values(104,'shivam','0123CS4',null,null,null,null,null,null,null);
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into student(sid,name,enroll) values(105,'kartik','0123CS5');
Query OK, 1 row affected (0.00 sec)

mysql> select * from student;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 105 | kartik | 0123CS5 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

update student set p=70,c=71,m=72,h=73,e=74,total=360,per=72 where sid=105;

```
MySQL 5.5 Command Line Cli x + v
mysql> insert into student(sid,name,enroll) values(105,'kartik','0123CS5');
Query OK, 1 row affected (0.00 sec)

mysql> select * from student;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 105 | kartik | 0123CS5 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> update student set p=70,c=71,m=72,h=73,e=74,total=360,per=72 where sid=105;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from student;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| sid | name  | enroll | per | p | c | m | h | e | total |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 105 | kartik | 0123CS5 | 72 | 70 | 71 | 72 | 73 | 74 | 360 |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

## Q2.How to delete data from mysql table?

Ans:

If we want to delete data from the table then we should go for delete command(DML)

Syntax:

# Delete from tablename where pk=?

```
MySQL 5.5 Command Line Cli
+-----+
| 104 | shivam | 0123CS4 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 105 | kartik | 0123CS5 | 72 | 70 | 71 | 72 | 73 | 74 | 360 |
+-----+
5 rows in set (0.00 sec)

mysql> delete from student where sid=104;
Query OK, 1 row affected (0.00 sec)

mysql> select * from student;
+-----+
| sid | name | enroll | per | p | c | m | h | e | total |
+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 103 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 105 | kartik | 0123CS5 | 72 | 70 | 71 | 72 | 73 | 74 | 360 |
+-----+
4 rows in set (0.00 sec)

mysql> delete from student where sid=103;
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+-----+
| sid | name | enroll | per | p | c | m | h | e | total |
+-----+
| 101 | akash | 0123CS1 | 52 | 50 | 51 | 52 | 53 | 54 | 260 |
| 102 | deepak | 0123CS2 | 62 | 60 | 61 | 62 | 63 | 64 | 310 |
| 105 | kartik | 0123CS5 | 72 | 70 | 71 | 72 | 73 | 74 | 360 |
+-----+
3 rows in set (0.00 sec)

mysql> |
```

Q1. Write a SQL Query to create emp table in mysql database?

emp

empno	name	sal	job	gender	hiredate	comm	deptno
			CLERK SALESMAN MANAGER	M	2010 to 2024 'YYYY-MM-DD'		10,20,30
1			CLERK	F			10
2			MANAGER	M			20
3			SALESMAN	F			30
4			CLERK	M			10
5			MANAGER	F			20
6			SALESMAN	M			30

7			CLERK	F			10
8			MANAGER	M			20
9			SALESMAN	F			30
10			CLERK	M			10
11			MANAGER	F			20
12			SALESMAN	M			30
13			CLERK	F			10
14			MANAGER	M			20
15			SALESMAN	F			30
16			MANAGER	M			10

Syntax:

Create table tablename(  
Column name data type primary key,  
Column name data type,  
Column name data type,  
Column name data type  
);

```
MySQL 5.5 Command Line Cli x + v
-> gender char(2),
-> hiredate date,
-> comm int,
-> deptno int
-> );
Query OK, 0 rows affected (0.02 sec)

mysql> show tables;
+-----+
| Tables_in_jan25 |
+-----+
| emp              |
| student          |
| student1         |
+-----+
3 rows in set (0.00 sec)

mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empno | int(11) | NO | PRI | NULL | |
| name  | varchar(45) | YES | | NULL | |
| sal   | float | YES | | NULL | |
| job   | varchar(45) | YES | | NULL | |
| gender | char(2) | YES | | NULL | |
| hiredate | date | YES | | NULL | |
| comm  | int(11) | YES | | NULL | |
| deptno | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> |
```

create table emp(  
empno int primary key,

```
name varchar(45),
sal float,
job varchar(45),
gender char(2),
hiredate date,
comm int,
deptno int
);
```

```
MySQL 5.5 Command Line Cli x + v
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.5.62 MySQL Community Server (GPL)

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owners.

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

mysql> create database jan15;
Query OK, 1 row affected (0.00 sec)

mysql> use jan15;
Database changed
mysql> create table emp(
  -> empno int primary key,
  -> name varchar(45),
  -> sal float,
  -> job varchar(45),
  -> gender char(2),
  -> hiredate date,
  -> comm int,
  -> deptno int
  -> );
Query OK, 0 rows affected (0.02 sec)

mysql> |

MySQL 5.5 Command Line Cli x + v

mysql> insert into emp values(1013,'Kaja',33000,'sales manager','F','2023-06-18',8000,30);
Query OK, 1 row affected (0.25 sec)

mysql> insert into emp values(1014,'Sonal',40000,'manager','F','2015-06-18',8000,20);
Query OK, 1 row affected (0.27 sec)

mysql> insert into emp values(1015,'Priyanshu',40000,'manager','M','2024-08-28',8000,10);
Query OK, 1 row affected (0.00 sec)

mysql> select * from emp;
+-----+-----+-----+-----+-----+-----+-----+-----+
| empno | name  | sal  | job      | gender | hiredate | comm | deptno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Payal | 60000 | clerk    | F      | 2011-04-13 | 3000 | 10      |
| 1002 | Ayushi | 50000 | clerk    | F      | 2013-04-13 | 2000 | 10      |
| 1003 | Priya | 40000 | manager  | F      | 2015-06-18 | 8000 | 20      |
| 1004 | Pawan | 40000 | manager  | M      | 2015-06-18 | 8000 | 30      |
| 1005 | Raj    | 30000 | sales manager | M      | 2018-06-19 | 7000 | 20      |
| 1006 | shivam | 40000 | manager  | F      | 2015-06-18 | 8000 | 20      |
| 1007 | Prabhu | 70000 | clerk    | M      | 2016-06-18 | 9000 | 20      |
| 1008 | Dev    | 80000 | manager  | M      | 2015-06-18 | 8000 | 20      |
| 1009 | Ravi   | 70000 | clerk    | M      | 2024-06-18 | 6000 | 10      |
| 1010 | Rupal | 50000 | manager  | F      | 2015-06-18 | 4000 | 20      |
| 1011 | Priya | 90000 | manager  | F      | 2022-06-18 | 8000 | 40      |
| 1012 | Saami | 55000 | salesmanager | F      | 2023-06-18 | 8000 | 20      |
| 1013 | Kaja;  | 33000 | sales manager | F      | 2023-06-18 | 8000 | 30      |
| 1014 | Sonal | 40000 | manager  | F      | 2015-06-18 | 8000 | 20      |
| 1015 | Priyanshu | 40000 | manager  | M      | 2024-08-28 | 8000 | 10      |
+-----+-----+-----+-----+-----+-----+-----+-----+
15 rows in set (0.00 sec)

mysql> |
```