Q1.How to insert data into mysql table?
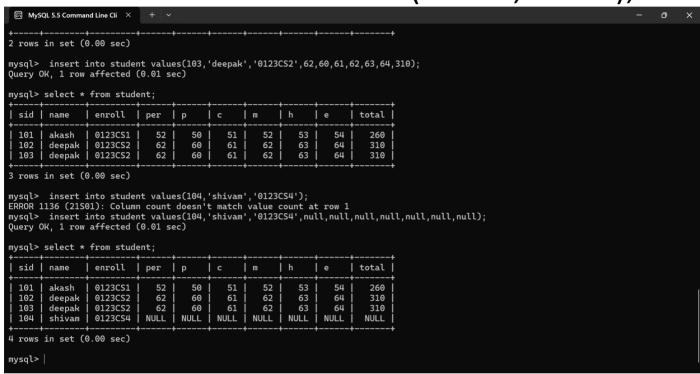
Ans:

There are two ways to insert data into mysql

1. Insert data into all columns
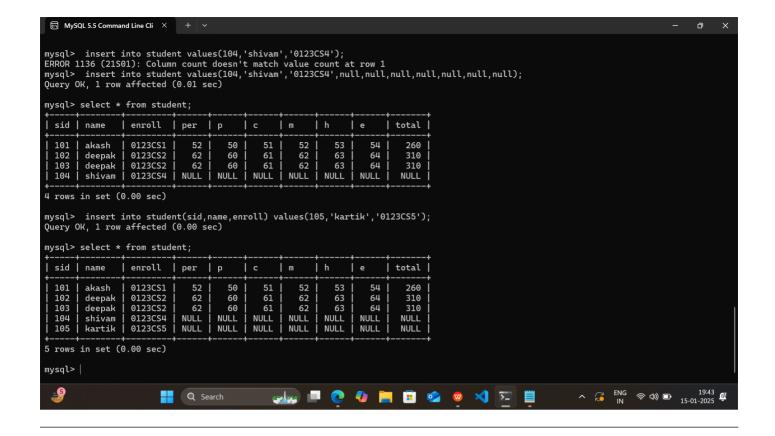
Syntax:

Insert into tableName values(value1,value2);

```
MySQL 5.5 Command Line Cli    ×    +   ∨                                                          —   □   ×

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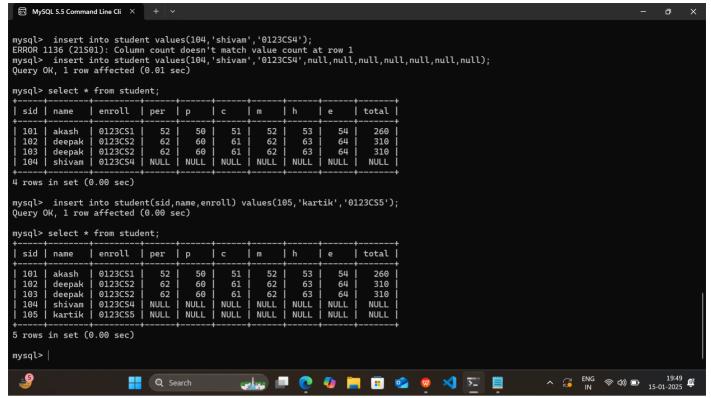values(105,'kartik','0123CS5');

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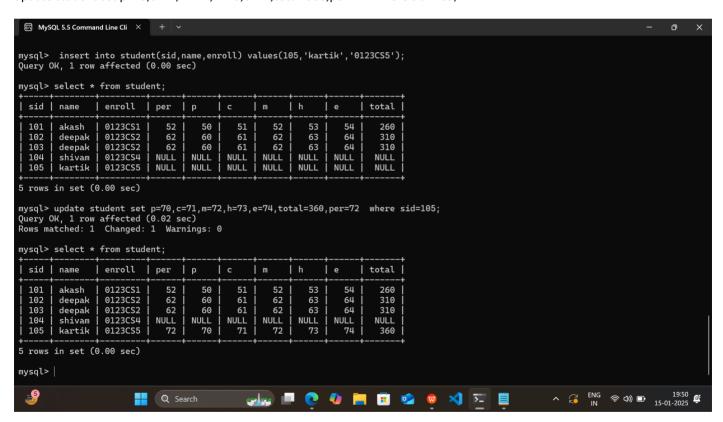Ans: if we want to update data into the table then we should go for update command(DML).

Syntax:
Update tablename set
column=value,column=value,column=value where pk=?

```
mysql>  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>  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>
```
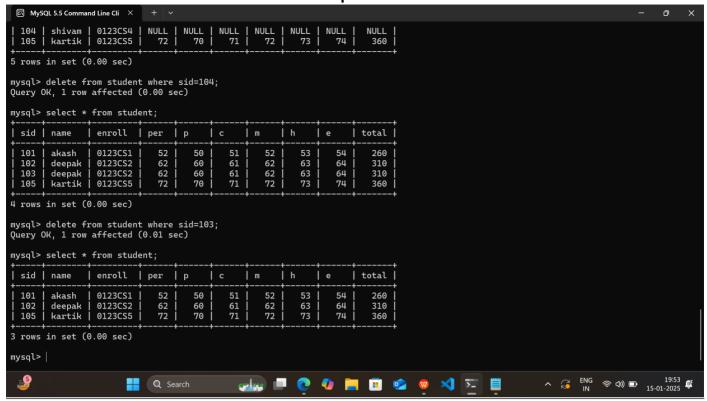
Q2.How to delete data from mysql table?

Ans:

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

Syntax:

Delete from tablename where pk=?

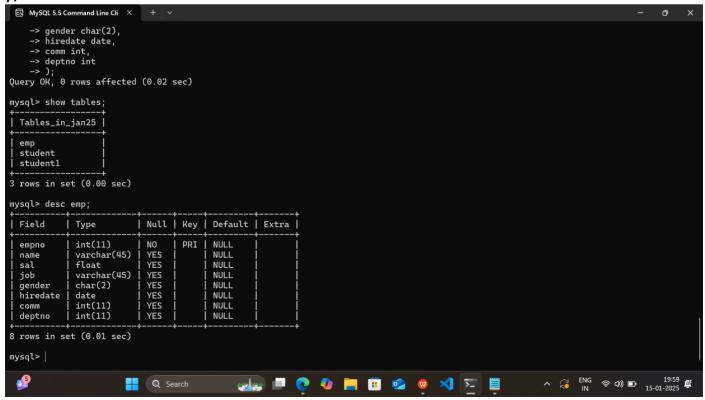## Q1. Write a SQL Query to create emp table in mysql database?

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

empno	name	sal	job	gender	hiredate	comm	deptno
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

);

create table emp(
empno int primary key,

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