

```
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 39
Server version: 8.0.44 MySQL Community Server - GPL
```

```
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```

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

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| nit |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> use nit;
Database changed
mysql> select * from customers;
+----+----+----+----+----+
| ID | NAME | AGE | ADRESS | SALARY |
+----+----+----+----+----+
| 1 | Ramesh | 32 | ahmedpur | 1000 |
| 2 | Huzaif | 27 | ahmedpur | 1000 |
| 3 | zain | 19 | ahmedpur | 1000 |
| 4 | aadil | 27 | ahmedpur | 1000 |
| 5 | abrar | 18 | ahmedpur | 1000 |
| 6 | santosh | 22 | ahmedpur | 1000 |
| 7 | Abhishek | 24 | ahmedpur | 1000 |
+----+----+----+----+----+
7 rows in set (0.00 sec)
```

```
mysql> select * from student;
+----+----+----+----+
| name | id | address | marks |
+----+----+----+----+
| adnan | 12 | hyd | 78 |
+----+----+----+----+
1 row in set (0.00 sec)
```

```
mysql> insert into student(marks,id,name,address)values(78,15,'prakash', 'hyd');
Query OK, 1 row affected (0.01 sec)
```

2

```
mysql> insert into student values ('alex',45,'hyd',79), ('cathy',17,'delhi',90),
-> ('dolly',48,'pune',67),('chancy',78,'mumbai',34);
```

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> select * from student;
```

name	id	address	marks
adnan	12	hyd	78
prakash	15	hyd	78
cathy	17	delhi	90
alex	45	hyd	79
dolly	48	pune	67
chancy	78	mumbai	34

6 rows in set (0.00 sec)

```
mysql> select name from student;
```

name
adnan
prakash
cathy
alex
dolly
chancy

6 rows in set (0.00 sec)

```
mysql> select name, id from student;
```

name	id
adnan	12
prakash	15
cathy	17
alex	45
dolly	48
chancy	78

6 rows in set (0.00 sec)

```
mysql> select * from student where id=12;
```

name	id	address	marks
------	----	---------	-------

```
| name | id | address | marks |
+-----+---+-----+-----+
| adnan | 12 | hyd | 78 |
+-----+---+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from student;
+-----+---+-----+-----+
| name | id | address | marks |
+-----+---+-----+-----+
| adnan | 12 | hyd | 78 |
| prakash | 15 | hyd | 78 |
| cathy | 17 | delhi | 90 |
| alex | 45 | hyd | 79 |
| dolly | 48 | pune | 67 |
| chancy | 78 | mumbai | 34 |
+-----+---+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> update student set address='chennai' where id = 45;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from student;
+-----+---+-----+-----+
| name | id | address | marks |
+-----+---+-----+-----+
| adnan | 12 | hyd | 78 |
| prakash | 15 | hyd | 78 |
| cathy | 17 | delhi | 90 |
| alex | 45 | chennai | 79 |
| dolly | 48 | pune | 67 |
| chancy | 78 | mumbai | 34 |
+-----+---+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> alter table student add phoneNo int;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from student;
+-----+---+-----+-----+-----+
| name | id | address | marks | phoneNo |
+-----+---+-----+-----+-----+
| adnan | 12 | hyd | 78 | NULL |
| prakash | 15 | hyd | 78 | NULL |
| cathy | 17 | delhi | 90 | NULL |
| alex | 45 | chennai | 79 | NULL |
| dolly | 48 | pune | 67 | NULL |
| chancy | 78 | mumbai | 34 | NULL |
+-----+---+-----+-----+-----+
```

```
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> update student set phoneNo=123;
Query OK, 6 rows affected (0.01 sec)
Rows matched: 6  Changed: 6  Warnings: 0
```

```
mysql> select * from student;
```

```
+-----+-----+-----+-----+
| name | id | address | marks | phoneNo |
+-----+-----+-----+-----+
| adnan | 12 | hyd | 78 | 123 |
| prakash | 15 | hyd | 78 | 123 |
| cathy | 17 | delhi | 90 | 123 |
| alex | 45 | chennai | 79 | 123 |
| dolly | 48 | pune | 67 | 123 |
| chancy | 78 | mumbai | 34 | 123 |
+-----+-----+-----+-----+
```

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

```
mysql> update student set phoneNo=456 where id=12;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from student;
```

```
+-----+-----+-----+-----+
| name | id | address | marks | phoneNo |
+-----+-----+-----+-----+
| adnan | 12 | hyd | 78 | 456 |
| prakash | 15 | hyd | 78 | 123 |
| cathy | 17 | delhi | 90 | 123 |
| alex | 45 | chennai | 79 | 123 |
| dolly | 48 | pune | 67 | 123 |
| chancy | 78 | mumbai | 34 | 123 |
+-----+-----+-----+-----+
```

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

```
mysql> desc student;
```

```
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| name | varchar(60) | YES | | NULL | |
| id | int | NO | PRI | NULL | |
| address | varchar(50) | YES | | NULL | |
| marks | int | YES | | NULL | |
| phoneNo | int | YES | | NULL | |
+-----+-----+-----+-----+-----+
```

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

```
mysql> alter table student modify column name varchar(60);
```

```
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
name	varchar(60)	YES		NULL	
id	int	NO	PRI	NULL	
address	varchar(50)	YES		NULL	
marks	int	YES		NULL	
phoneNo	int	YES		NULL	

```
5 rows in set (0.01 sec)
```

```
mysql> alter table student drop column phoneNO;
```

```
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> select * from student;
```

name	id	address	marks
adnan	12	hyd	78
prakash	15	hyd	78
cathy	17	delhi	90
alex	45	chennai	79
dolly	48	pune	67
chancy	78	mumbai	34

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

```
mysql> delete from student where name='adnan';
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from student;
```

name	id	address	marks
prakash	15	hyd	78
cathy	17	delhi	90
alex	45	chennai	79
dolly	48	pune	67
chancy	78	mumbai	34

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

```
mysql> select sum(marks) from student;
```

sum(marks)
408

```
+-----+  
|      348 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select avg(marks) from student;  
+-----+  
| avg(marks) |  
+-----+  
|    69.6000 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select count(name) from student;  
+-----+  
| count(name) |  
+-----+  
|          5 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select max(marks) from student;  
+-----+  
| max(marks) |  
+-----+  
|        90 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select min(marks) from student;  
+-----+  
| min(marks) |  
+-----+  
|        34 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select * from student order by marks;  
+-----+-----+-----+-----+  
| name   | id  | address | marks |  
+-----+-----+-----+-----+  
| chancy | 78  | mumbai |    34 |  
| dolly  | 48  | pune   |    67 |  
| prakash| 15  | hyd    |    78 |  
| alex   | 45  | chennai |    79 |  
| cathy  | 17  | delhi  |    90 |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
mysql> select * from student order by marks desc;
```

```
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| cathy | 17  | delhi   |    90 |
| alex  | 45  | chennai |    79 |
| prakash | 15 | hyd     |    78 |
| dolly | 48  | pune    |    67 |
| chancy | 78  | mumbai  |    34 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from student where name like 'a%';
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| alex | 45  | chennai |    79 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from student where name like '%y';
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| cathy | 17  | delhi   |    90 |
| dolly | 48  | pune    |    67 |
| chancy | 78  | mumbai  |    34 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from student where name like '_a%';
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| cathy | 17  | delhi   |    90 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from student where name like '%s_';
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| prakash | 15 | hyd     |    78 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from emp;
+-----+-----+-----+-----+
| id  | salary | empcode | name  |
+-----+-----+-----+-----+
| 12   | 2000  |      102 | adnan |
+-----+-----+-----+-----+
```

```
| 23 | 60000 |      104 | aadil |
| 34 | 9000  |      106 | saad  |
| 78 | 30000 |      105 | zain  |
| 80 | 25000 |      103 | huzaif |
+----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from student;
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| prakash | 15 | hyd     | 78   |
| cathy    | 17 | delhi   | 90   |
| alex     | 45 | chennai | 79   |
| dolly    | 48 | pune    | 67   |
| chancy   | 78 | mumbai  | 34   |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from student inner join emp on student.id=emp.id;
+-----+-----+-----+-----+-----+-----+-----+
| name | id  | address | marks | id  | salary | empcode | name |
+-----+-----+-----+-----+-----+-----+-----+
| chancy | 78 | mumbai | 34   | 78 | 30000 | 105    | zain |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from student ;
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| prakash | 15 | hyd     | 78   |
| cathy    | 17 | delhi   | 90   |
| alex     | 45 | chennai | 79   |
| dolly    | 48 | pune    | 67   |
| chancy   | 78 | mumbai  | 34   |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select
-> ^C
mysql> select * from emp;
+-----+-----+-----+-----+
| id  | salary | empcode | name  |
+-----+-----+-----+-----+
| 12  | 2000  |    102 | adnan |
| 23  | 60000 |    104 | aadil |
| 34  | 9000  |    106 | saad  |
| 78  | 30000 |    105 | zain  |
| 80  | 25000 |    103 | huzaif |
+-----+-----+-----+-----+
```

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

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

```
mysql> select * from student left join emp on student.id=emp.id;
```

name	id	address	marks	id	salary	empcode	name
prakash	15	hyd	78	NULL	NULL	NULL	NULL
cathy	17	delhi	90	NULL	NULL	NULL	NULL
alex	45	chennai	79	NULL	NULL	NULL	NULL
dolly	48	pune	67	NULL	NULL	NULL	NULL
chancy	78	mumbai	34	78	30000	105	zain

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

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

```
mysql> select * from student right join emp on student.id=emp.id;
```

name	id	address	marks	id	salary	empcode	name
NULL	NULL	NULL	NULL	12	2000	102	adnan
NULL	NULL	NULL	NULL	23	60000	104	aadil
NULL	NULL	NULL	NULL	34	9000	106	saad
chancy	78	mumbai	34	78	30000	105	zain
NULL	NULL	NULL	NULL	80	25000	103	huzaif

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

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

```
mysql> select * from student cross join emp;
```

name	id	address	marks	id	salary	empcode	name
chancy	78	mumbai	34	12	2000	102	adnan
dolly	48	pune	67	12	2000	102	adnan
alex	45	chennai	79	12	2000	102	adnan
cathy	17	delhi	90	12	2000	102	adnan
prakash	15	hyd	78	12	2000	102	adnan
chancy	78	mumbai	34	23	60000	104	aadil
dolly	48	pune	67	23	60000	104	aadil
alex	45	chennai	79	23	60000	104	aadil
cathy	17	delhi	90	23	60000	104	aadil
prakash	15	hyd	78	23	60000	104	aadil
chancy	78	mumbai	34	34	9000	106	saad
dolly	48	pune	67	34	9000	106	saad
alex	45	chennai	79	34	9000	106	saad
cathy	17	delhi	90	34	9000	106	saad
prakash	15	hyd	78	34	9000	106	saad
chancy	78	mumbai	34	78	30000	105	zain
dolly	48	pune	67	78	30000	105	zain
alex	45	chennai	79	78	30000	105	zain
cathy	17	delhi	90	78	30000	105	zain

```
| prakash | 15 | hyd      |    78 | 78 | 30000 |      105 | zain   |
| chancy  | 78 | mumbai   |    34 | 80 | 25000 |      103 | huzaif |
| dolly   | 48 | pune     |    67 | 80 | 25000 |      103 | huzaif |
| alex    | 45 | chennai  |    79 | 80 | 25000 |      103 | huzaif |
| cathy   | 17 | delhi    |    90 | 80 | 25000 |      103 | huzaif |
| prakash | 15 | hyd      |    78 | 80 | 25000 |      103 | huzaif |
+-----+-----+-----+-----+-----+-----+-----+
25 rows in set (0.00 sec)
```

```
mysql> select * from student inner join emp on student.id = emp.id;
+-----+-----+-----+-----+-----+-----+-----+
| name  | id  | address | marks | id  | salary | empcode | name  |
+-----+-----+-----+-----+-----+-----+-----+
| chancy | 78 | mumbai |    34 | 78 | 30000 |      105 | zain  |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_nit |
+-----+
| customers    |
| emp          |
| salary        |
| student       |
+-----+
4 rows in set (0.00 sec)
```

```
mysql>
```