```
Enter password: **********
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 8.0.44 MySQL Community Server - GPL

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owners.

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| databasename       |
| information_schema |
| my_database        |
| mysql              |
| performance_schema |
| student_db         |
| sys                |
| testdb             |
+--------------------+
8 rows in set (0.16 sec)

mysql>
```

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| databasename       |
| information_schema |
| my_database        |
| mysql              |
| performance_schema |
| student_db         |
| sys                |
| testdb             |
+--------------------+
8 rows in set (0.01 sec)

mysql> create database nit;
Query OK, 1 row affected (0.03 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| databasename       |
| information_schema |
| my_database        |
| mysql              |
| nit                |
| performance_schema |
| student_db         |
| sys                |
| testdb             |
+--------------------+
9 rows in set (0.00 sec)

mysql> use nit;
Database changed
mysql> create table student(
    -> name varchar(30),
    -> id int not null primary key,
    -> address varchar(50),
    -> marks int);
```

```
mysql> use nit;
Database changed
mysql> create table student(
    -> name varchar(30),
    -> id int not null primary key,
    -> address varchar(50),
    -> marks int);
Query OK, 0 rows affected (0.05 sec)

mysql> desc student;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| name    | varchar(30) | YES  |     | NULL    |       |
| id      | int         | NO   | PRI | NULL    |       |
| address | varchar(50) | YES  |     | NULL    |       |
| marks   | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> show tables;
+---------------+
| Tables_in_nit |
+---------------+
| student       |
+---------------+
1 row in set (0.00 sec)

mysql> show tables;
+---------------+
| Tables_in_nit |
+---------------+
| student       |
+---------------+
1 row in set (0.00 sec)

mysql> insert into student(marks,id,name,address)values(78, 12, 'karthik', 'hyd');
Query OK, 1 row affected (0.02 sec)

mysql> insert into student values('reddy',40,'bng',66);
```

```
mysql> insert into student values('reddy',40,'bng',66);
Query OK, 1 row affected (0.01 sec)

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 |
+---------+----+---------+-------+
| karthik | 12 | hyd     |    78 |
| cathy   | 17 | delhi   |    90 |
| reddy   | 40 | bng     |    66 |
| 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    |
+---------+
| karthik |
| cathy   |
| reddy   |
| alex    |
| dolly   |
| chancy  |
+---------+
6 rows in set (0.00 sec)

mysql> select name,id from student;
+---------+----+
| name    | id |
+---------+----+
| karthik | 12 |
| cathy   | 17 |
```

```
mysql> select name,id from student;
+---------+----+
| name    | id |
+---------+----+
| karthik | 12 |
| cathy   | 17 |
| reddy   | 40 |
| alex    | 45 |
| dolly   | 48 |
| chancy  | 78 |
+---------+----+
6 rows in set (0.00 sec)

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

mysql> select * from student;
+---------+----+---------+-------+
| name    | id | address | marks |
+---------+----+---------+-------+
| karthik | 12 | hyd     |    78 |
| cathy   | 17 | delhi   |    90 |
| reddy   | 40 | bng     |    66 |
| alex    | 45 | hyd     |    79 |
| dolly   | 48 | pune    |    67 |
| chancy  | 78 | mumbai  |    34 |
+---------+----+---------+-------+
6 rows in set (0.00 sec)

mysql>
```

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

mysql> select * from student;
+---------+-----+---------+-------+
| name    | id  | address | marks |
+---------+-----+---------+-------+
| karthik | 12  | hyd     |    78 |
| cathy   | 17  | delhi   |    90 |
| reddy   | 40  | bng     |    66 |
| alex    | 45  | hyd     |    79 |
| dolly   | 48  | pune    |    67 |
| chancy  | 78  | mumbai  |    34 |
+---------+-----+---------+-------+
6 rows in set (0.00 sec)

mysql> insert into student values('sam',12,'hyd',56);
ERROR 1062 (23000): Duplicate entry '12' for key 'student.PRIMARY'
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 |
+---------+-----+---------+-------+
| karthik | 12  | hyd     |    78 |
| cathy   | 17  | delhi   |    90 |
| reddy   | 40  | bng     |    66 |
| alex    | 45  | chennai |    79 |
| dolly   | 48  | pune    |    67 |
| chancy  | 78  | mumbai  |    34 |
+---------+-----+---------+-------+
6 rows in set (0.00 sec)

mysql>
```

MySQL 8.0 Command Line Client:

```
| dolly   | 48 | pune     |    67 |
| chancy  | 78 | mumbai   |    34 |
+---------+----+----------+-------+
6 rows in set (0.00 sec)

mysql> insert into student values('sam',12,'hyd',56);
ERROR 1062 (23000): Duplicate entry '12' for key 'student.PRIMARY'
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 |
+---------+----+----------+-------+
| karthik | 12 | hyd      |    78 |
| cathy   | 17 | delhi    |    90 |
| reddy   | 40 | bng      |    66 |
| alex    | 45 | chennai  |    79 |
| dolly   | 48 | pune     |    67 |
| chancy  | 78 | mumbai   |    34 |
+---------+----+----------+-------+
6 rows in set (0.00 sec)

mysql> select 10+ 20;
+--------+
| 10+ 20 |
+--------+
|     30 |
+--------+
1 row in set (0.00 sec)

mysql> select 10 / 5;
+--------+
| 10 / 5 |
+--------+
| 2.0000 |
+--------+
1 row in set (0.01 sec)

mysql>
```

MySQL Workbench:

```
1 •  use nit;
2 •  show tables;
3 •  select * from student;
4 •  select name, id from student;
5 •  select address from student;
6 •  select address from student;
7 •  select * from student;
```

Result Grid:

name	id	address	marks
karthik	12	hyd	78
cathy	17	delhi	90
reddy	40	bng	66
alex	45	chennai	79
dolly	48	pune	67
chancy	78	mumbai	34
NULL	NULL	NULL	NULL

Output — Action Output:

#	Time	Action	Message	Duration / Fetch
1	09:05:54	use nit	0 row(s) affected	0.000 sec
2	09:05:54	show tables	1 row(s) returned	0.000 sec / 0.000 sec
3	09:05:54	select * from student LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
4	09:05:54	select name, id from student LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
5	09:05:54	select address from student LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
6	09:05:54	select address from student LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
7	09:05:54	select * from student LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.