

```
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.43 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 |
+-----+
| information_schema |
| mysql |
| nit |
| performance_schema |
| sys |
| testdb |
+-----+
6 rows in set (0.01 sec)

mysql> sedc students;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to
use near 'sedc students' at line 1

mysql> desc students;
ERROR 1046 (3D000): No database selected

mysql> use nit;
Database changed
mysql> desc students;
ERROR 1146 (42S02): Table 'nit.students' doesn't exist

mysql> select * from student;
+-----+-----+-----+-----+
| name | id | address | marks |
+-----+-----+-----+-----+
| Raj | 12 | hyd | 78 |
| Dolly | 13 | bng | 88 |
| Kodi | 14 | Mumbai | 94 |
| Sahil | 15 | Pune | 90 |
| Prakash | 16 | Delhi | 88 |
| Cathy | 17 | Chennai | 89 |
+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name | varchar(60) | YES | | NULL | |
| id | int | NO | PRI | NULL | |
| address | varchar(100) | YES | | NULL | |
| marks | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select sum(marks) from student;
+-----+
| sum(marks) |
+-----+
| 527 |
+-----+
1 row in set (0.01 sec)

mysql> select avg(marks) from student;
+-----+
| avg(marks) |
+-----+
| 87.8333 |
+-----+
1 row in set (0.00 sec)

mysql> delete from student where name = 'Kodi';
Query OK, 1 row affected (0.02 sec)

mysql> select * from student;
+-----+-----+-----+-----+
| name | id | address | marks |
+-----+-----+-----+-----+
| Raj | 12 | hyd | 78 |
| Dolly | 13 | bng | 88 |
| Sahil | 15 | Pune | 90 |
| Prakash | 16 | Delhi | 88 |
| Cathy | 17 | Chennai | 89 |
+-----+-----+-----+-----+
5 rows 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) |
+-----+
|          78 |
+-----+
1 row in set (0.00 sec)
mysql> select * from student order by marks;
+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| Raj    | 12 | hyd     | 78    |
| Dolly  | 13 | bng     | 88    |
| Prakash | 16 | Del hi  | 88    |
| Cathy  | 17 | Chennai | 89    |
| Sahil  | 15 | Pune    | 90    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
mysql> select * from student order by marks desc;
+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| Sahil  | 15 | Pune    | 90    |
| Cathy  | 17 | Chennai | 89    |
| Dolly  | 13 | bng     | 88    |
| Prakash | 16 | Del hi  | 88    |
| Raj    | 12 | hyd     | 78    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
mysql> select * from student where name like 'a%';
Empty set (0.00 sec)
mysql> select * from student where name like 'r%';
+-----+-----+-----+-----+
| name | id | address | marks |
+-----+-----+-----+-----+
| Raj  | 12 | hyd     | 78    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
mysql> select * from student where name like '%y';
+-----+-----+-----+-----+
| name | id | address | marks |
+-----+-----+-----+-----+
| Dolly | 13 | bng     | 88    |
| Cathy | 17 | Chennai | 89    |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
mysql> select * from student where name like 's%';
+-----+-----+-----+-----+
| name | id | address | marks |
+-----+-----+-----+-----+
| Sahil | 15 | Pune    | 90    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
mysql> select * from student;
+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| Raj    | 12 | hyd     | 78    |
| Dolly  | 13 | bng     | 88    |
| Sahil  | 15 | Pune    | 90    |
| Prakash | 16 | Del hi  | 88    |
| Cathy  | 17 | Chennai | 89    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
mysql> select * from student where name like '_a%';
```

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

name	id	address	marks
Raj	12	hyd	78
Sahil	15	Pune	90
Cathy	17	Chennai	89

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

3 rows in set (0.00 sec)
mysql> select * from student where name like 's_%';

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

name	id	address	marks
Sahil	15	Pune	90

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

1 row in set (0.00 sec)
mysql> select * from student where name like 'l_%';
Empty set (0.00 sec)

mysql> create table emp(id int not null primary key,salary int, empcode int, name varchar(30));
Query OK, 0 rows affected (0.09 sec)
mysql> insert into emp values(12, 20000,102,'aman'), (23, 60000,104,'arup'), (78,30000,105,'max'),
-> (80, 35000,103,'ram'), (34,90000,106,'sam');

Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from emp;

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

id	salary	empcode	name
12	20000	102	aman
23	60000	104	arup
34	90000	106	sam
78	30000	105	max
80	35000	103	ram

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

5 rows in set (0.00 sec)
mysql> select * from student;

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

name	id	address	marks
Raj	12	hyd	78
Dolly	13	bng	88
Sahil	15	Pune	90
Prakash	16	Delhi	88
Cathy	17	Chennai	89

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

5 rows in set (0.00 sec)
mysql> select * from student inner join emp on student.id;

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

name	id	address	marks	id	salary	empcode	name
Cathy	17	Chennai	89	12	20000	102	aman
Prakash	16	Delhi	88	12	20000	102	aman
Sahil	15	Pune	90	12	20000	102	aman
Dolly	13	bng	88	12	20000	102	aman
Raj	12	hyd	78	12	20000	102	aman
Cathy	17	Chennai	89	23	60000	104	arup
Prakash	16	Delhi	88	23	60000	104	arup
Sahil	15	Pune	90	23	60000	104	arup
Dolly	13	bng	88	23	60000	104	arup
Raj	12	hyd	78	23	60000	104	arup
Cathy	17	Chennai	89	34	90000	106	sam
Prakash	16	Delhi	88	34	90000	106	sam
Sahil	15	Pune	90	34	90000	106	sam
Dolly	13	bng	88	34	90000	106	sam
Raj	12	hyd	78	34	90000	106	sam
Cathy	17	Chennai	89	78	30000	105	max
Prakash	16	Delhi	88	78	30000	105	max
Sahil	15	Pune	90	78	30000	105	max
Dolly	13	bng	88	78	30000	105	max
Raj	12	hyd	78	78	30000	105	max
Cathy	17	Chennai	89	80	35000	103	ram
Prakash	16	Delhi	88	80	35000	103	ram
Sahil	15	Pune	90	80	35000	103	ram
Dolly	13	bng	88	80	35000	103	ram
Raj	12	hyd	78	80	35000	103	ram

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

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
------	----	---------	-------	----	--------	---------	------

	Raj		12		hyd		78		12
							20000		102
									aman

1 row in set (0.00 sec)
mysql> select * from emp inner join student on emp.id = student.id;

	id		salary		empcode		name		name
							id		address
									marks
	12		20000		102		aman		Raj
							12		hyd
									78

1 row in set (0.00 sec)
mysql> select * from student;

	name		id		address
					marks
	Raj		12		hyd
	Dolly		13		bng
	Sahil		15		Pune
	Prakash		16		Delhi
	Cathy		17		Chennai

5 rows in set (0.00 sec)
mysql> select * from emp;

	id		salary		empcode
					name
	12		20000		102
	23		60000		104
	34		90000		106
	78		30000		105
	80		35000		103

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
	Raj		12		hyd		78		12
	Dolly		13		bng		88		NULL
	Sahil		15		Pune		90		NULL
	Prakash		16		Delhi		88		NULL
	Cathy		17		Chennai		89		NULL

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
	Raj		12		hyd		78		12
	NULL		NULL		NULL		NULL		23
	NULL		NULL		NULL		NULL		34
	NULL		NULL		NULL		NULL		78
	NULL		NULL		NULL		NULL		80

5 rows in set (0.00 sec)
mysql> select * from student cross join emp;

	name		id		address		marks		id
									salary
									empcode
									name
	Cathy		17		Chennai		89		12
	Prakash		16		Delhi		88		12
	Sahil		15		Pune		90		12
	Dolly		13		bng		88		12
	Raj		12		hyd		78		12
	Cathy		17		Chennai		89		23
	Prakash		16		Delhi		88		23
	Sahil		15		Pune		90		23
	Dolly		13		bng		88		23
	Raj		12		hyd		78		23
	Cathy		17		Chennai		89		34
	Prakash		16		Delhi		88		34
	Sahil		15		Pune		90		34
	Dolly		13		bng		88		34
	Raj		12		hyd		78		34
	Cathy		17		Chennai		89		78
	Prakash		16		Delhi		88		78
	Sahil		15		Pune		90		78
	Dolly		13		bng		88		78
	Raj		12		hyd		78		78

	Cathy		17		Chennai		89		80		35000		103		ram	
	Prakash		16		Del hi		88		80		35000		103		ram	
	Sahi l		15		Pune		90		80		35000		103		ram	
	Dol l y		13		bng		88		80		35000		103		ram	
	Raj		12		hyd		78		80		35000		103		ram	

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

25 rows in set (0.00 sec)

mysql>