

```
mysql> show databases;
+-----+
| Database      |
+-----+
| customers    |
| information_schema |
| mydb          |
| mysql          |
| nit           |
| performance_schema |
| sys           |
+-----+
7 rows in set (0.01 sec)
```

```
mysql> use nit
Database changed
mysql> show tables;
+-----+
| Tables_in_nit |
+-----+
| student       |
+-----+
1 row in set (0.00 sec)
```

```
mysql> alter table student add phoneNo int;
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> update student set phoneno=123;
```

```
Query OK, 5 rows affected (0.03 sec)
```

```
Rows matched: 5  Changed: 5  Warnings: 0
```

```
mysql> slect * from student;
```

```
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 'slect * from student' at line 1
```

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

name	id	address	marks	phoneNo
Ajay Adam	20	chennai	99	123
Adam	21	wgl	98	123
Anil	22	AP	97	123
Arun	23	usa	96	123
Anu	30	wgl	56	123

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

```
mysql> update student set phoneno=456 where id=22;
```

```
Query OK, 1 row affected (0.03 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
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	
phoneNo	int	YES		NULL	

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

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

```
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 'name varchar(60)' at line 1
```

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

```
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 'name varchar(60)' at line 1
```

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

```
Query OK, 0 rows affected (0.05 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 (0.00 sec)
```

Default

```
mysql> alter table student drop column phoneno;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> select * from student;
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| Ajay Adam | 20 | chennai | 99 |
| Adam       | 21 | wgl    | 98 |
| Anil       | 22 | AP     | 97 |
| Arun       | 23 | usa    | 96 |
| Anu        | 30 | wgl    | 56 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> delete from student where name='Anu';
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from student;
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| Ajay Adam | 20 | chennai | 99 |
| Adam       | 21 | wgl    | 98 |
| Anil       | 22 | AP     | 97 |
| Arun       | 23 | usa    | 96 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Default

X + ▾

```
mysql> select sum(marks) from student;
+-----+
| sum(marks) |
+-----+
|      390 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select avg(marks) from student;
+-----+
| avg(marks) |
+-----+
|    97.5000 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(name) from student;
+-----+
| count(name) |
+-----+
|        4 |
+-----+
1 row in set (0.03 sec)
```

```
mysql> select min(marks) from student;
+-----+
| min(marks) |
+-----+
|      96 |
+-----+
1 row in set (0.00 sec)
```

Default X + v

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

max(marks)
99

```
1 row in set (0.00 sec)
```

```
mysql> select * from student oder by marks;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check  
the syntax to use near 'by marks' at line 1
```

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

name	id	address	marks
Arun	23	usa	96
Anil	22	AP	97
Adam	21	wgl	98
Ajay Adam	20	chennai	99

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

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

name	id	address	marks
Ajay Adam	20	chennai	99
Adam	21	wgl	98
Anil	22	AP	97
Arun	23	usa	96

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

```
mysql> select * from student where name like 'a%';
```

name	id	address	marks
Ajay Adam	20	chennai	99
Adam	21	wgl	98
Anil	22	AP	97
Arun	23	usa	96

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

```
mysql> select * from student where name like '%m';
```

name	id	address	marks
Ajay Adam	20	chennai	99
Adam	21	wgl	98

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

```
mysql> select * from student where name like '%l';
```

name	id	address	marks
Anil	22	AP	97

```
1 row in set (0.00 sec)
```

```
mysql> select * from student where name like '%n';
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| Arun | 23  | usa    |     96 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from student where name like '_a%';
Empty set (0.00 sec)
```

```
mysql> select * from student;
+-----+-----+-----+-----+
| name      | id  | address | marks |
+-----+-----+-----+-----+
| Ajay Adam | 20  | chennai |     99 |
| Adam       | 21  | wgl    |     98 |
| Anil       | 22  | AP     |     97 |
| Arun       | 23  | usa    |     96 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * from student where name like '_j%';
+-----+-----+-----+-----+
| name      | id  | address | marks |
+-----+-----+-----+-----+
| Ajay Adam | 20  | chennai |     99 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from student where name like '%n_';
Empty set (0.00 sec)
```

Default

X + ▾

```
mysql> select * from student where name like '%i_';
+-----+-----+-----+-----+
| name | id  | address | marks |
+-----+-----+-----+-----+
| Anil | 22  | AP      |    97  |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> create table emp(id int not null primary key, salary int,empco
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> insert into emp values(12,20000,102,'aman'),(23,60000,104,'ar
-> (80,25000,103,'ram');
Query OK, 4 rows affected (0.04 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> selcet * from emp;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
t syntax to use near 'selcet * from emp' at line 1
mysql> selecet * from emp;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
t syntax to use near 'selecet * from emp' at line 1
mysql> select * from emp;
+-----+-----+-----+
| id  | salary | empcode | name  |
+-----+-----+-----+-----+
| 12   | 20000  |    102  | aman |
| 23   | 60000  |    104  | arup  |
| 78   | 30000  |    105  | max   |
| 80   | 25000  |    103  | ram   |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

Default

X + ▾

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

name	id	address	marks
Ajay Adam	20	chennai	99
Adam	21	wgl	98
Anil	22	AP	97
Arun	23	usa	96

```
4 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
Arun	23	usa	96	23	60000	104	arup

```
1 row in set (0.00 sec)
```

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

```
ERROR 1066 (42000): Not unique table/alias: 'student'
```

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

name	id	address	marks	id	salary	empcode	name
Ajay Adam	20	chennai	99	NULL	NULL	NULL	NULL
Adam	21	wgl	98	NULL	NULL	NULL	NULL
Anil	22	AP	97	NULL	NULL	NULL	NULL
Arun	23	usa	96	23	60000	104	arup

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

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

id salary empcode name name id address marks
12 20000 102 aman NULL NULL NULL NULL
23 60000 104 arup Arun 23 usa 96
78 30000 105 max NULL NULL NULL NULL
80 25000 103 ram NULL NULL NULL NULL

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

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

id salary empcode name name id address marks
NULL NULL NULL NULL Ajay Adam 20 chennai 99
NULL NULL NULL NULL Adam NULL 21 wgl 98
NULL NULL NULL NULL Anil NULL 22 AP 97
23 60000 104 arup Arun 23 usa 96

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

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

id salary empcode name name id address marks
NULL NULL NULL NULL Ajay Adam 20 chennai 99
NULL NULL NULL NULL Adam NULL 21 wgl 98
NULL NULL NULL NULL Anil NULL 22 AP 97
23 60000 104 arup Arun 23 usa 96

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

Default

X + ▾

```
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	20000	102	aman
Arun	23	usa	96	23	60000	104	arup
NULL	NULL	NULL	NULL	78	30000	105	max
NULL	NULL	NULL	NULL	80	25000	103	ram

4 rows in set (0.00 sec)

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

name	id	address	marks	id	salary	empcode	name
Arun	23	usa	96	12	20000	102	aman
Anil	22	AP	97	12	20000	102	aman
Adam	21	wgl	98	12	20000	102	aman
Ajay Adam	20	chennai	99	12	20000	102	aman
Arun	23	usa	96	23	60000	104	arup
Anil	22	AP	97	23	60000	104	arup
Adam	21	wgl	98	23	60000	104	arup
Ajay Adam	20	chennai	99	23	60000	104	arup
Arun	23	usa	96	78	30000	105	max
Anil	22	AP	97	78	30000	105	max
Adam	21	wgl	98	78	30000	105	max
Ajay Adam	20	chennai	99	78	30000	105	max
Arun	23	usa	96	80	25000	103	ram
Anil	22	AP	97	80	25000	103	ram
Adam	21	wgl	98	80	25000	103	ram
Ajay Adam	20	chennai	99	80	25000	103	ram

```
mysql> select * from emp cross join student;
+----+-----+-----+-----+-----+-----+----+-----+-----+
| id | salary | empcode | name | name       | id | address | marks |
+----+-----+-----+-----+-----+-----+----+-----+-----+
| 80 | 25000 |      103 | ram  | Ajay Adam | 20 | chennai | 99   |
| 78 | 30000 |      105 | max  | Ajay Adam | 20 | chennai | 99   |
| 23 | 60000 |      104 | arup | Ajay Adam | 20 | chennai | 99   |
| 12 | 20000 |      102 | aman | Ajay Adam | 20 | chennai | 99   |
| 80 | 25000 |      103 | ram  | Adam    | 21 | wgl    | 98   |
| 78 | 30000 |      105 | max  | Adam    | 21 | wgl    | 98   |
| 23 | 60000 |      104 | arup | Adam    | 21 | wgl    | 98   |
| 12 | 20000 |      102 | aman | Adam    | 21 | wgl    | 98   |
| 80 | 25000 |      103 | ram  | Anil   | 22 | AP     | 97   |
| 78 | 30000 |      105 | max  | Anil   | 22 | AP     | 97   |
| 23 | 60000 |      104 | arup | Anil   | 22 | AP     | 97   |
| 12 | 20000 |      102 | aman | Anil   | 22 | AP     | 97   |
| 80 | 25000 |      103 | ram  | Arun  | 23 | usa   | 96   |
| 78 | 30000 |      105 | max  | Arun  | 23 | usa   | 96   |
| 23 | 60000 |      104 | arup | Arun  | 23 | usa   | 96   |
| 12 | 20000 |      102 | aman | Arun  | 23 | usa   | 96   |
+----+-----+-----+-----+-----+-----+----+-----+-----+
```

16 rows 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 |
+----+-----+-----+-----+-----+-----+----+-----+-----+
| 23 | 60000 |      104 | arup | Arun | 23 | usa   | 96   |
+----+-----+-----+-----+-----+-----+----+-----+-----+
```

1 row in set (0.00 sec)