

MYSQL PART-2

```
mysql> show databases;
```

```
+-----+
| Database      |
+-----+
| information_schema |
| legion        |
| mysql         |
| nit           |
| nit2          |
| performance_schema |
| sys           |
+-----+
```

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

```
mysql> use nit;
```

```
Database changed
```

```
mysql> show table;
```

```
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 '' at line 1
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_nit |
+-----+
| imp           |
| student       |
+-----+
```

2 rows in set (1.69 sec)

```
mysql> use nit2;
```

Database changed

```
mysql> show tables;
```

```
+-----+
| Tables_in_nit2 |
+-----+
| student      |
+-----+
```

1 row in set (0.00 sec)

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

```
+-----+----+-----+-----+
| name  | id | address | marks |
+-----+----+-----+-----+
| prakash | 12 | hyd    | 78 |
| cathy  | 17 | delhi  | 90 |
| kodi   | 40 | bng    | 66 |
| alex   | 45 | chennai | 79 |
| dolly  | 48 | pune   | 67 |
| chancy | 78 | mumbai | 34 |
+-----+----+-----+-----+
```

6 rows in set (1.69 sec)

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

Query OK, 0 rows affected (0.38 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

```
+-----+----+-----+-----+-----+
| name  | id | address | marks | phoneNo |
+-----+----+-----+-----+-----+
| prakash | 12 | hyd    | 78 | NULL |
| cathy  | 17 | delhi  | 90 | NULL |
| kodi   | 40 | bng    | 66 | 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 |
+-----+----+-----+-----+-----+
| prakash | 12 | hyd    | 78 | 123 |
| cathy  | 17 | delhi  | 90 | 123 |
| kodi   | 40 | bng    | 66 | 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 (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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

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

```
| name | id | address | marks | phoneNo |
```

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

```
| prakash | 12 | hyd | 78 | 456 |
```

```
| cathy | 17 | delhi | 90 | 123 |
```

```
| kodi | 40 | bng | 66 | 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(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 (1.78 sec)

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

ERROR 1146 (42S02): Table 'nit2.students' doesn't exist

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

Query OK, 0 rows affected (0.28 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)

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

Query OK, 0 rows affected (1.65 sec)

Records: 0 Duplicates: 0 Warnings: 0

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

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

```
| name  | id | address | marks |
```

```

+-----+----+-----+-----+
| prakash | 12 | hyd   | 78 |
| cathy   | 17 | delhi | 90 |
| kodi     | 40 | bng    | 66 |
| 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='kodi';
```

Query OK, 1 row affected (0.00 sec)

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

```

+-----+----+-----+-----+
| name   | id | address | marks |
+-----+----+-----+-----+
| prakash | 12 | 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) |

```

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

```
|    348 |
```

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

1 row in set (0.01 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 (0.01 sec)
```

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

```
+-----+----+-----+-----+  
| name  | id | address | marks |  
+-----+----+-----+-----+  
| chancy | 78 | mumbai  | 34 |  
| dolly  | 48 | pune    | 67 |  
| prakash | 12 | 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 | 12 | 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 (0.01 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 | 12 | hyd     | 78 |
```

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

1 row in 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 (1.71 sec)

```
mysql> insert into emp values(12,
20000,102,'aman'),(23,60000m,104,'arup'),(78,30000,105,'max'),
-> (80,25000,103,'ram'),(34,90000,106,'sam');
```

ERROR 1054 (42S22): Unknown column '60000m' in 'field list'

```
mysql> insert into emp values(12,
200000,102,'aman'),(23,60000,104,'arup'),(78,30000,105,'max'),
-> (80,25000,103,'ram'),(34,90000,106,'sam');
```

Query OK, 5 rows affected (0.00 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from emp;
```

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

```
| id | salary | empcode | name |
```

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

| |
|--------------------------|
| 12 200000 102 aman |
| 23 60000 104 arup |
| 34 90000 106 sam |
| 78 30000 105 max |
| 80 25000 103 ram |

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

5 rows in set (0.00 sec)

mysql> select * from student;

| |
|-----------------------------|
| +-----+----+-----+-----+ |
| name id address marks |
| +-----+----+-----+-----+ |
| prakash 12 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 emp;

| |
|------------------------------|
| +----+-----+-----+-----+ |
| id salary empcode name |
| +----+-----+-----+-----+ |
| 12 200000 102 aman |
| 23 60000 104 arup |
| 34 90000 106 sam |
| 78 30000 105 max |
| 80 25000 103 ram |

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

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 |
```

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

```
| prakash | 12 | hyd   | 78 | 12 | 200000 | 102 | aman |
```

```
| chancy | 78 | mumbai | 34 | 78 | 30000 | 105 | max |
```

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

2 rows in set (0.00 sec)

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

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

```
| name  | id | address | marks |
```

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

```
| prakash | 12 | 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 emp;
```

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

```
| id | salary | empcode | name |
```

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

| |
|--------------------------|
| 12 200000 102 aman |
| 23 60000 104 arup |
| 34 90000 106 sam |
| 78 30000 105 max |
| 80 25000 103 ram |

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

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 12 hyd 78 12 200000 102 aman |
| 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 max |

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

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 |
| +-----+---+-----+-----+---+-----+-----+-----+ |
| prakash 12 hyd 78 12 200000 102 aman |
| NULL NULL NULL NULL 23 60000 104 arup |
| NULL NULL NULL NULL 34 90000 106 sam |
| chancy 78 mumbai 34 78 30000 105 max |
| NULL NULL NULL NULL 80 25000 103 ram |

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

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 | 200000 | 102 | aman |
| dolly | 48 | pune | 67 | 12 | 200000 | 102 | aman |
| alex | 45 | chennai | 79 | 12 | 200000 | 102 | aman |
| cathy | 17 | delhi | 90 | 12 | 200000 | 102 | aman |
| prakash | 12 | hyd | 78 | 12 | 200000 | 102 | aman |
| chancy | 78 | mumbai | 34 | 23 | 60000 | 104 | arup |
| dolly | 48 | pune | 67 | 23 | 60000 | 104 | arup |
| alex | 45 | chennai | 79 | 23 | 60000 | 104 | arup |
| cathy | 17 | delhi | 90 | 23 | 60000 | 104 | arup |
| prakash | 12 | hyd | 78 | 23 | 60000 | 104 | arup |
| chancy | 78 | mumbai | 34 | 34 | 90000 | 106 | sam |
| dolly | 48 | pune | 67 | 34 | 90000 | 106 | sam |
| alex | 45 | chennai | 79 | 34 | 90000 | 106 | sam |
| cathy | 17 | delhi | 90 | 34 | 90000 | 106 | sam |
| prakash | 12 | hyd | 78 | 34 | 90000 | 106 | sam |
| chancy | 78 | mumbai | 34 | 78 | 30000 | 105 | max |
| dolly | 48 | pune | 67 | 78 | 30000 | 105 | max |
| alex | 45 | chennai | 79 | 78 | 30000 | 105 | max |
| cathy | 17 | delhi | 90 | 78 | 30000 | 105 | max |
| prakash | 12 | hyd | 78 | 78 | 30000 | 105 | max |
| chancy | 78 | mumbai | 34 | 80 | 25000 | 103 | ram |
| dolly | 48 | pune | 67 | 80 | 25000 | 103 | ram |
| alex | 45 | chennai | 79 | 80 | 25000 | 103 | ram |

| | | | | | | | | |
|---------|----|-------|----|----|-------|-----|-----|--|
| cathy | 17 | delhi | 90 | 80 | 25000 | 103 | ram | |
| prakash | 12 | hyd | 78 | 80 | 25000 | 103 | ram | |

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

25 rows in set (0.00 sec)