Enter password: ************

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 9

Server version: 8.0.29 MySQL Community Server - GPL

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

```
mysql> use 8647batch;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_8647batch |
+---------------------+
| department          |
| employee            |
| product             |
| project             |
| student             |
| studentbackup       |
+---------------------+
6 rows in set (0.39 sec)

mysql> desc employee;
+--------------+--------------+------+-----+---------+----------------+
| Field        | Type         | Null | Key | Default | Extra          |
```

```
+--------------+--------------+------+-----+---------+----------------+
| empid        | int          | NO   | PRI | NULL    | auto_increment |
| first_name   | varchar(20)  | NO   |     | NULL    |                |
| last_name    | varchar(30)  | YES  |     | NULL    |                |
| design       | varchar(30)  | NO   |     | NULL    |                |
| salary       | double(10,2) | YES  |     | NULL    |                |
| mobilenumber | varchar(10)  | YES  |     | NULL    |                |
| email_id     | varchar(40)  | YES  | UNI | NULL    |                |
| leavetype    | varchar(5)   | YES  |     | NULL    |                |
| deptId       | int          | YES  | MUL | NULL    |                |
| projId       | int          | YES  | MUL | NULL    |                |
| manager_id   | int          | YES  | MUL | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
11 rows in set (0.12 sec)
```

mysql> select first_name,design,email_id from employee;

```
+------------+---------------+------------------+
| first_name | design        | email_id         |
+------------+---------------+------------------+
| Sunil      | Testing       | sunil@gmail.com  |
| tanush     | Admin         | tanush@gmail.com |
| somu       | SalesManager  | somu@gmail.com   |
| manu       | SalesManager  | manu@gmail.com   |
| Kiran      | QualityManager | kr@gmail.com    |
+------------+---------------+------------------+
5 rows in set (0.01 sec)
```

mysql> select first_name,design,email_id from employee where design='Sales Manager';
Empty set (0.05 sec)

mysql> select first_name,design,email_id from employee where design='SalesManager';

```
+------------+--------------+----------------+
| first_name | design       | email_id       |
+------------+--------------+----------------+
| somu       | SalesManager | somu@gmail.com |
| manu       | SalesManager | manu@gmail.com |
+------------+--------------+----------------+
2 rows in set (0.00 sec)
```

mysql> select first_name,design,email_id from employee union all select first_name,design,email_id from employee where design='salesmanager';

```
+------------+----------------+------------------+
| first_name | design         | email_id         |
+------------+----------------+------------------+
| Sunil      | Testing        | sunil@gmail.com  |
| tanush     | Admin          | tanush@gmail.com |
| somu       | SalesManager   | somu@gmail.com   |
| manu       | SalesManager   | manu@gmail.com   |
| Kiran      | QualityManager | kr@gmail.com     |
| somu       | SalesManager   | somu@gmail.com   |
| manu       | SalesManager   | manu@gmail.com   |
+------------+----------------+------------------+
7 rows in set (0.05 sec)
```

mysql> select first_name,design,email_id from employee union select first_name,design,email_id from employee where design='salesmanager';

```
+------------+----------------+------------------+
| first_name | design         | email_id         |
+------------+----------------+------------------+
| Sunil      | Testing        | sunil@gmail.com  |
| tanush     | Admin          | tanush@gmail.com |
| somu       | SalesManager   | somu@gmail.com   |
| manu       | SalesManager   | manu@gmail.com   |
```

| Kiran | QualityManager | kr@gmail.com |

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

5 rows in set (0.05 sec)

mysql> desc student;

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

| Field | Type | Null | Key | Default | Extra |

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

| sid | int | NO | PRI | NULL | |

| sname | varchar(30) | NO | | NULL | |

| marks | float | YES | | NULL | |

| resume | varchar(50) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> select sname , sid from student union all select first_name, empid from employee;

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

| sname | sid |

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

| harishkumar | 1000 |

| SwapnaKumari | 2000 |

| komal | 3000 |

| isha | 5000 |

| nisha | 6000 |

| isha | 7000 |

| tanushree | 8000 |

| rekha | 9000 |

| Sunil | 1000 |

| tanush | 1001 |

| somu | 1002 |

| manu | 1003 |

| Kiran | 1004 |

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

13 rows in set (0.00 sec)

mysql> select *from employee;select *from student;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

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

| 1000 | Sunil | Singh | Testing | 81853.98 | 9786202345 | sunil@gmail.com | pl | 2 | 10000 | NULL |

| 1001 | tanush | kumar | Admin | 51653.98 | 9886202355 | tanush@gmail.com | cl | 3 | 10000 | 1000 |

| 1002 | somu | shekar | SalesManager | 98763.83 | 9875323432 | somu@gmail.com | pl | 3 | 20000 | 1000 |

| 1003 | manu | hari | SalesManager | 98763.83 | 9875323432 | manu@gmail.com | pl | 2 | 20000 | 1002 |

| 1004 | Kiran | shelke | QualityManager | 97654.87 | 8763234232 | kr@gmail.com | pl | NULL | NULL | 1003 |

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

5 rows in set (0.00 sec)

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

| sid | sname | marks | resume |

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

| 1000 | harishkumar | 78.95 | NULL |

| 2000 | SwapnaKumari | 90.34 | NULL |

| 3000 | komal | 58.45 | NULL |

| 5000 | isha | 28.76 | NULL |

| 6000 | nisha | NULL | NULL |

| 7000 | isha | 56.98 | available |

```
| 8000 | tanushree   | 28.76 | available |
| 9000 | rekha       | 56.98 | available |
+------+-------------+-------+-----------+
8 rows in set (0.00 sec)


mysql> select sname , sid from student union all select first_name, design from employee;
+--------------+----------------+
| sname        | sid            |
+--------------+----------------+
| harishkumar  | 1000           |
| SwapnaKumari | 2000           |
| komal        | 3000           |
| isha         | 5000           |
| nisha        | 6000           |
| isha         | 7000           |
| tanushree    | 8000           |
| rekha        | 9000           |
| Sunil        | Testing        |
| tanush       | Admin          |
| somu         | SalesManager   |
| manu         | SalesManager   |
| Kiran        | QualityManager |
+--------------+----------------+
13 rows in set (0.00 sec)


mysql> select sname , sid from student union all select first_name, design,salary from employee;
ERROR 1222 (21000): The used SELECT statements have a different number of columns
mysql> select sname , sid,0  from student union all select first_name, design,salary from employee;
+--------------+----------------+----------+
| sname        | sid            | 0        |
+--------------+----------------+----------+
```

| harishkumar | 1000 | 0.00 |

| SwapnaKumari | 2000 | 0.00 |

| komal | 3000 | 0.00 |

| isha | 5000 | 0.00 |

| nisha | 6000 | 0.00 |

| isha | 7000 | 0.00 |

| tanushree | 8000 | 0.00 |

| rekha | 9000 | 0.00 |

| Sunil | Testing | 81853.98 |

| tanush | Admin | 51653.98 |

| somu | SalesManager | 98763.83 |

| manu | SalesManager | 98763.83 |

| Kiran | QualityManager | 97654.87 |

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

13 rows in set (0.00 sec)

mysql> select sname , sid,0 as "salary" from student union all select first_name, design,salary from employee;

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

| sname | sid | salary |

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

| harishkumar | 1000 | 0.00 |

| SwapnaKumari | 2000 | 0.00 |

| komal | 3000 | 0.00 |

| isha | 5000 | 0.00 |

| nisha | 6000 | 0.00 |

| isha | 7000 | 0.00 |

| tanushree | 8000 | 0.00 |

| rekha | 9000 | 0.00 |

| Sunil | Testing | 81853.98 |

| tanush | Admin | 51653.98 |

| somu | SalesManager | 98763.83 |

| manu | SalesManager | 98763.83 |

| Kiran | QualityManager | 97654.87 |

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

13 rows in set (0.00 sec)

mysql> select sname , sid,0 as "salary" from student union all select first_name 'fname', design,salary from employee;

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

| sname | sid | salary |

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

| harishkumar | 1000 | 0.00 |

| SwapnaKumari | 2000 | 0.00 |

| komal | 3000 | 0.00 |

| isha | 5000 | 0.00 |

| nisha | 6000 | 0.00 |

| isha | 7000 | 0.00 |

| tanushree | 8000 | 0.00 |

| rekha | 9000 | 0.00 |

| Sunil | Testing | 81853.98 |

| tanush | Admin | 51653.98 |

| somu | SalesManager | 98763.83 |

| manu | SalesManager | 98763.83 |

| Kiran | QualityManager | 97654.87 |

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

13 rows in set (0.00 sec)

mysql> select sname as name , sid,0 as "salary" from student union all select first_name 'fname', design,salary from employee;

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

| name | sid | salary |

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

| harishkumar | 1000 | 0.00 |

| SwapnaKumari | 2000 | 0.00 |

| komal | 3000 | 0.00 |

| isha | 5000 | 0.00 |

| nisha | 6000 | 0.00 |

| isha | 7000 | 0.00 |

| tanushree | 8000 | 0.00 |

| rekha | 9000 | 0.00 |

| Sunil | Testing | 81853.98 |

| tanush | Admin | 51653.98 |

| somu | SalesManager | 98763.83 |

| manu | SalesManager | 98763.83 |

| Kiran | QualityManager | 97654.87 |

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

13 rows in set (0.00 sec)

mysql> select sum(salary) as total from employee union select sum(marks) from student;

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

| total |

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

| 428690.49 |

| 399.2199935913086 |

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

2 rows in set (0.32 sec)

mysql> select sum(salary) as total from employee group by deptid union select sum(marks) from student ;

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

| total |

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

| 97654.87 |

| 180617.81 |

| 150417.81 |

| 399.2199935913086 |

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

4 rows in set (0.11 sec)

mysql> select deptid, sum(salary) as total from employee group by deptid union select 0,sum(marks) from student ;

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

| deptid | total |

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

| NULL | 97654.87 |

| 2 | 180617.81 |

| 3 | 150417.81 |

| 0 | 399.2199935913086 |

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

4 rows in set (0.00 sec)

mysql> select *from employee;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

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

| 1000 | Sunil | Singh | Testing | 81853.98 | 9786202345 | sunil@gmail.com | pl | 2 | 10000 | NULL |

| 1001 | tanush | kumar | Admin | 51653.98 | 9886202355 | tanush@gmail.com | cl | 3 | 10000 | 1000 |

| 1002 | somu | shekar | SalesManager | 98763.83 | 9875323432 | somu@gmail.com | pl | 3 | 20000 | 1000 |

| 1003 | manu | hari | SalesManager | 98763.83 | 9875323432 | manu@gmail.com | pl | 2 | 20000 | 1002 |

```
| 1004 | Kiran     | shelke    | QualityManager | 97654.87 | 8763234232   | kr@gmail.com     | pl
|  NULL |  NULL |     1003 |
+-------+------------+-----------+----------------+----------+-------------+-----------------+----------+--------+--------+-
-----------+
5 rows in set (0.00 sec)


mysql> select *from employee where design='Admin';
+-------+------------+-----------+--------+----------+-------------+-----------------+----------+--------+--------+-----------
---+
| empid | first_name | last_name | design | salary   | mobilenumber | email_id        | leavetype |
deptId | projId | manager_id |
+-------+------------+-----------+--------+----------+-------------+-----------------+----------+--------+--------+-----------
---+
| 1001 | tanush    | kumar     | Admin  | 51653.98 | 9886202355   | tanush@gmail.com | cl       |
3 |  10000 |     1000 |
+-------+------------+-----------+--------+----------+-------------+-----------------+----------+--------+--------+-----------
---+
1 row in set (0.00 sec)


mysql> create index design_index on employee(design);
Query OK, 0 rows affected (1.25 sec)
Records: 0  Duplicates: 0  Warnings: 0


mysql> select *from employee where design='Admin';
+-------+------------+-----------+--------+----------+-------------+-----------------+----------+--------+--------+-----------
---+
| empid | first_name | last_name | design | salary   | mobilenumber | email_id        | leavetype |
deptId | projId | manager_id |
+-------+------------+-----------+--------+----------+-------------+-----------------+----------+--------+--------+-----------
---+
| 1001 | tanush    | kumar     | Admin  | 51653.98 | 9886202355   | tanush@gmail.com | cl       |
3 |  10000 |     1000 |
+-------+------------+-----------+--------+----------+-------------+-----------------+----------+--------+--------+-----------
---+
1 row in set (0.05 sec)
```

mysql> show tables;

```
+---------------------+
| Tables_in_8647batch |
+---------------------+
| department          |
| employee            |
| product             |
| project             |
| student             |
| studentbackup       |
+---------------------+
6 rows in set (0.00 sec)
```

mysql> show index;

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 index from employee;

```
+----------+------------+---------------------+-------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+
| Table    | Non_unique | Key_name            | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+----------+------------+---------------------+-------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+---------+------------+
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
employee	0	PRIMARY	1	empid	A	5	NULL	NULL		BTREE			YES	NULL
employee	0	email_id	1	email_id	A	5	NULL	NULL	YES	BTREE			YES	NULL
employee	1	employee_deptid_fk	1	deptId	A	3	NULL	NULL	YES	BTREE			YES	NULL
employee	1	employee_project_fk	1	projId	A	3	NULL	NULL	YES	BTREE			YES	NULL
employee	1	employee_manager_fkid	1	manager_id	A	4	NULL	NULL	YES	BTREE			YES	NULL

```
| employee |        1 | design_index        |           1 | design    | A       |          4 |    NULL |  NULL |
| BTREE    |        |              | YES    | NULL      |

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

6 rows in set (0.22 sec)


mysql> drop index design_index;

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> alter table employee drop index design_index;

Query OK, 0 rows affected (0.19 sec)

Records: 0  Duplicates: 0  Warnings: 0


mysql> shor index from employee;

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 'shor index from employee' at line 1

mysql> show index from employee;

+----------+-----------+--------------------+-------------+-------------+----------+-------------+----------+--------+------+------------+---------+--------------+---------+------------+
| Table    | Non_unique | Key_name          | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+----------+-----------+--------------------+-------------+-------------+----------+-------------+----------+--------+------+------------+---------+--------------+---------+------------+
| employee |        0 | PRIMARY            |           1 | empid     | A       |          5 |    NULL |  NULL |
| BTREE    |        |              | YES    | NULL      |
| employee |        0 | email_id           |           1 | email_id  | A       |          5 |    NULL |  NULL |
YES  | BTREE    |        |              | YES    | NULL      |
| employee |        1 | employee_deptid_fk |           1 | deptId    | A       |          3 |    NULL |
NULL | YES  | BTREE    |        |              | YES    | NULL      |
| employee |        1 | employee_project_fk |          1 | projId    | A       |          3 |    NULL |  NULL |
| YES  | BTREE    |        |              | YES    | NULL      |
| employee |        1 | employee_manager_fkid |        1 | manager_id | A      |          4 |    NULL |
NULL | YES  | BTREE    |        |              | YES    | NULL      |
+----------+-----------+--------------------+-------------+-------------+----------+-------------+----------+--------+------+------------+---------+--------------+---------+------------+

5 rows in set (0.00 sec)
```

```
mysql> desc employee;

+--------------+--------------+------+-----+---------+----------------+
| Field        | Type         | Null | Key | Default | Extra          |
+--------------+--------------+------+-----+---------+----------------+
| empid        | int          | NO   | PRI | NULL    | auto_increment |
| first_name   | varchar(20)  | NO   |     | NULL    |                |
| last_name    | varchar(30)  | YES  |     | NULL    |                |
| design       | varchar(30)  | NO   |     | NULL    |                |
| salary       | double(10,2) | YES  |     | NULL    |                |
| mobilenumber | varchar(10)  | YES  |     | NULL    |                |
| email_id     | varchar(40)  | YES  | UNI | NULL    |                |
| leavetype    | varchar(5)   | YES  |     | NULL    |                |
| deptId       | int          | YES  | MUL | NULL    |                |
| projId       | int          | YES  | MUL | NULL    |                |
| manager_id   | int          | YES  | MUL | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
11 rows in set (0.00 sec)


mysql> select * from employee
    -> where manager is null;
ERROR 1054 (42S22): Unknown column 'manager' in 'where clause'
mysql> select * from employee
    -> where manager_id is null;
```

+-------+------------+-----------+---------+----------+--------------+----------------+-----------+--------+--------+-----------+
| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+---------+----------+--------------+----------------+-----------+--------+--------+-----------+

| 1000 | Sunil | Singh | Testing | 81853.98 | 9786202345 | sunil@gmail.com | pl | 2 | 10000 | NULL |

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

1 row in set (0.00 sec)

mysql> select *from employee

   -> where manager_id exists

   -> (select * from employee

   -> where manager_id is null);

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 'exists

(select * from employee

where manager_id is null)' at line 2

mysql> select *from employee

   -> where exists

   -> (select * from employee

   -> where manager_id is null);

```
+-------+------------+-----------+---------------+----------+-------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design        | salary   | mobilenumber | email_id       | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+---------------+----------+-------------+-----------------+-----------+--------+--------+------------+
| 1000  | Sunil      | Singh     | Testing       | 81853.98 | 9786202345  | sunil@gmail.com  | pl        | 2      | 10000  | NULL       |
| 1001  | tanush     | kumar     | Admin         | 51653.98 | 9886202355  | tanush@gmail.com | cl        | 3      | 10000  | 1000       |
| 1002  | somu       | shekar    | SalesManager  | 98763.83 | 9875323432  | somu@gmail.com   | pl        | 3      | 20000  | 1000       |
| 1003  | manu       | hari      | SalesManager  | 98763.83 | 9875323432  | manu@gmail.com   | pl        | 2      | 20000  | 1002       |
| 1004  | Kiran      | shelke    | QualityManager| 97654.87 | 8763234232  | kr@gmail.com     | pl        | NULL   | NULL   | 1003       |
+-------+------------+-----------+---------------+----------+-------------+-----------------+-----------+--------+--------+------------+
```

5 rows in set (0.07 sec)

```
mysql> update employee set manager_id=1003 where empid=1000;

Query OK, 1 row affected (0.17 sec)

Rows matched: 1  Changed: 1  Warnings: 0


mysql> select *from employee;

+-------+------------+-----------+---------------+----------+-------------+-----------------+-----------+-------+--------+-
-----------+
| empid | first_name | last_name | design        | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+---------------+----------+-------------+-----------------+-----------+-------+--------+-
-----------+
| 1000 | Sunil      | Singh     | Testing       | 81853.98 | 9786202345  | sunil@gmail.com  | pl        |     2 | 10000 |      1003 |
| 1001 | tanush     | kumar     | Admin         | 51653.98 | 9886202355  | tanush@gmail.com | cl        |     3 | 10000 |      1000 |
| 1002 | somu       | shekar    | SalesManager  | 98763.83 | 9875323432  | somu@gmail.com   | pl        |     3 | 20000 |      1000 |
| 1003 | manu       | hari      | SalesManager  | 98763.83 | 9875323432  | manu@gmail.com   | pl        |     2 | 20000 |      1002 |
| 1004 | Kiran      | shelke    | QualityManager | 97654.87 | 8763234232  | kr@gmail.com     | pl        |  NULL |  NULL |      1003 |
+-------+------------+-----------+---------------+----------+-------------+-----------------+-----------+-------+--------+-
-----------+
5 rows in set (0.00 sec)


mysql> select *from employee
    -> where  exists
    -> (select * from employee
    -> where manager_id is null);
Empty set (0.00 sec)


mysql> select *from employee
    -> where not exists
```

```
    -> (select * from employee

    -> where manager_id is null);
```

```
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design        | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
|  1000 | Sunil      | Singh     | Testing       | 81853.98 | 9786202345   | sunil@gmail.com | pl        |      2 |  10000 |       1003 |
|  1001 | tanush     | kumar     | Admin         | 51653.98 | 9886202355   | tanush@gmail.com| cl        |      3 |  10000 |       1000 |
|  1002 | somu       | shekar    | SalesManager  | 98763.83 | 9875323432   | somu@gmail.com  | pl        |      3 |  20000 |       1000 |
|  1003 | manu       | hari      | SalesManager  | 98763.83 | 9875323432   | manu@gmail.com  | pl        |      2 |  20000 |       1002 |
|  1004 | Kiran      | shelke    | QualityManager| 97654.87 | 8763234232   | kr@gmail.com    | pl        |   NULL |   NULL |       1003 |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
5 rows in set (0.00 sec)
```

```
mysql> select distinct design from employee;
```

```
+----------------+
| design         |
+----------------+
| Testing        |
| Admin          |
| SalesManager   |
| QualityManager |
+----------------+
4 rows in set (0.00 sec)
```

```
mysql> select distinct design,salary from employee;
```

```
+----------------+----------+
| design         | salary   |
+----------------+----------+
| Testing        | 81853.98 |
| Admin          | 51653.98 |
| SalesManager   | 98763.83 |
| QualityManager | 97654.87 |
+----------------+----------+
4 rows in set (0.00 sec)
```

mysql> select distinct design, distinct salary from employee;

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 'distinct salary from employee' at line 1

mysql> select distinct design, distinct salary from employee;

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 'distinct salary from employee' at line 1

mysql> select *from employee;

```
+-------+------------+-----------+----------------+----------+-------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design         | salary   | mobilenumber | email_id       | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+----------------+----------+-------------+-----------------+-----------+--------+--------+------------+
|  1000 | Sunil      | Singh     | Testing        | 81853.98 | 9786202345  | sunil@gmail.com | pl        |      2 |  10000 |       1003 |
|  1001 | tanush     | kumar     | Admin          | 51653.98 | 9886202355  | tanush@gmail.com| cl        |      3 |  10000 |       1000 |
|  1002 | somu       | shekar    | SalesManager   | 98763.83 | 9875323432  | somu@gmail.com  | pl        |      3 |  20000 |       1000 |
|  1003 | manu       | hari      | SalesManager   | 98763.83 | 9875323432  | manu@gmail.com  | pl        |      2 |  20000 |       1002 |
|  1004 | Kiran      | shelke    | QualityManager | 97654.87 | 8763234232  | kr@gmail.com    | pl        |   NULL |   NULL |       1003 |
+-------+------------+-----------+----------------+----------+-------------+-----------------+-----------+--------+--------+------------+
```

5 rows in set (0.00 sec)

mysql> select * from employee where deptid=3;

```
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design       | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
|  1001 | tanush     | kumar     | Admin        | 51653.98 | 9886202355   | tanush@gmail.com | cl       |      3 |  10000 |       1000 |
|  1002 | somu       | shekar    | SalesManager | 98763.83 | 9875323432   | somu@gmail.com   | pl       |      3 |  20000 |       1000 |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
```

2 rows in set (0.00 sec)

mysql> create view employee_dept_view as select *from employee where deptid=3;
Query OK, 0 rows affected (0.11 sec)

mysql> select *from employee_dept_view;

```
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design       | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
|  1001 | tanush     | kumar     | Admin        | 51653.98 | 9886202355   | tanush@gmail.com | cl       |      3 |  10000 |       1000 |
|  1002 | somu       | shekar    | SalesManager | 98763.83 | 9875323432   | somu@gmail.com   | pl       |      3 |  20000 |       1000 |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
```

2 rows in set (0.00 sec)

```
mysql> create view employee_view as select first_name,last_name,design,salary from employee
    -> ;
Query OK, 0 rows affected (0.14 sec)

mysql> show tables;
+---------------------+
| Tables_in_8647batch |
+---------------------+
| department          |
| employee            |
| employee_dept_view  |
| employee_view       |
| product             |
| project             |
| student             |
| studentbackup       |
+---------------------+
8 rows in set (0.01 sec)

mysql> desc employee_view;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| first_name | varchar(20) | NO   |     | NULL    |       |
| last_name  | varchar(30) | YES  |     | NULL    |       |
| design     | varchar(30) | NO   |     | NULL    |       |
| salary     | double(10,2)| YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> select *from employee_view;
```

```
+------------+-----------+----------------+----------+
| first_name | last_name | design         | salary   |
+------------+-----------+----------------+----------+
| Sunil      | Singh     | Testing        | 81853.98 |
| tanush     | kumar     | Admin          | 51653.98 |
| somu       | shekar    | SalesManager   | 98763.83 |
| manu       | hari      | SalesManager   | 98763.83 |
| Kiran      | shelke    | QualityManager | 97654.87 |
+------------+-----------+----------------+----------+
5 rows in set (0.00 sec)
```

mysql> select *from employee_dept_view;

```
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design       | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
|  1001 | tanush     | kumar     | Admin        | 51653.98 | 9886202355   | tanush@gmail.com | cl       |      3 |  10000 |       1000 |
|  1002 | somu       | shekar    | SalesManager | 98763.83 | 9875323432   | somu@gmail.com   | pl       |      3 |  20000 |       1000 |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+------------+
2 rows in set (0.00 sec)
```
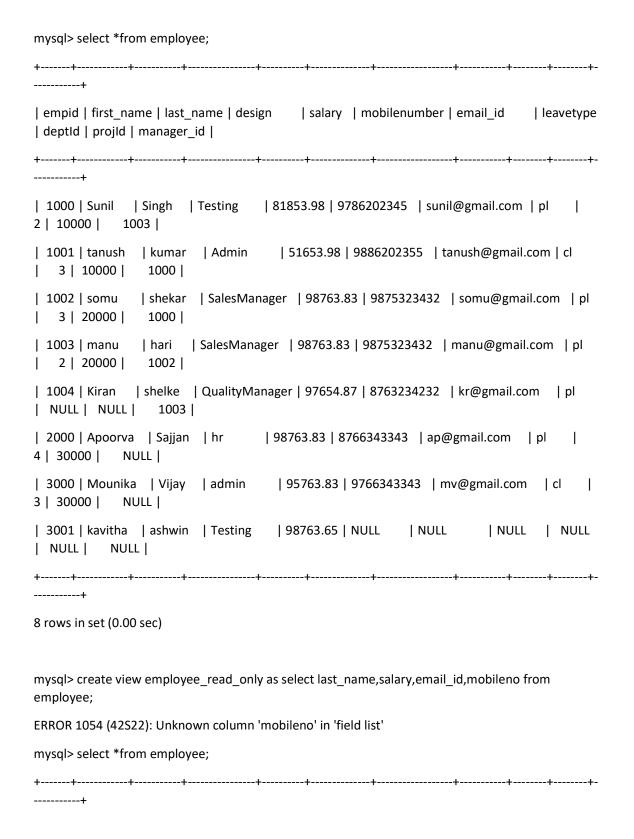
mysql> insert into employee_Dept_view values(2000,'Apoorva','Sajjan','hr',98763.83,'8766343343','ap@gmail.com','pl',1,30000,null);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`8647batch`.`employee`, CONSTRAINT `employee_deptid_fk` FOREIGN KEY (`deptId`) REFERENCES `department` (`dept_id`) ON DELETE CASCADE)

mysql> select *from departments;

ERROR 1146 (42S02): Table '8647batch.departments' doesn't exist

mysql> select *from department;

```
+---------+------------+-------------+-----------+
| dept_id | deptname   | companyname | location  |
+---------+------------+-------------+-----------+
|       2 | Development | edubridge   | Mangalore |
|       3 | hr          | edubridge   | mysore    |
|       4 | sales       | edubridge   | delhi     |
+---------+------------+-------------+-----------+
3 rows in set (0.00 sec)
```

mysql> insert into employee_Dept_view values(2000,'Apoorva','Sajjan','hr',98763.83,'8766343343','ap@gmail.com','pl',4,30000,null);

Query OK, 1 row affected (0.55 sec)

mysql> select *from employee_Dept_view;

```
+-------+------------+-----------+--------------+----------+-------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design       | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+--------------+----------+-------------+-----------------+-----------+--------+--------+------------+
|  1001 | tanush     | kumar     | Admin        | 51653.98 | 9886202355  | tanush@gmail.com | cl        |      3 |  10000 |       1000 |
|  1002 | somu       | shekar    | SalesManager | 98763.83 | 9875323432  | somu@gmail.com   | pl        |      3 |  20000 |       1000 |
+-------+------------+-----------+--------------+----------+-------------+-----------------+-----------+--------+--------+------------+
2 rows in set (0.00 sec)
```

mysql> select *from employee;

```
+-------+------------+-----------+--------------+----------+-------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design       | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
```

```
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+-
----------+
| 1000 | Sunil     | Singh    | Testing      | 81853.98 | 9786202345  | sunil@gmail.com  | pl      |
2 | 10000 |      1003 |
| 1001 | tanush    | kumar    | Admin        | 51653.98 | 9886202355  | tanush@gmail.com | cl
|     3 | 10000 |      1000 |
| 1002 | somu      | shekar   | SalesManager | 98763.83 | 9875323432  | somu@gmail.com   | pl
|     3 | 20000 |      1000 |
| 1003 | manu      | hari     | SalesManager | 98763.83 | 9875323432  | manu@gmail.com   | pl
|     2 | 20000 |      1002 |
| 1004 | Kiran     | shelke   | QualityManager | 97654.87 | 8763234232 | kr@gmail.com    | pl
|  NULL |  NULL |      1003 |
| 2000 | Apoorva   | Sajjan   | hr           | 98763.83 | 8766343343  | ap@gmail.com     | pl      |
4 | 30000 |     NULL |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+-
----------+
6 rows in set (0.00 sec)
```

mysql> insert into employee_Dept_view
values(3000,'Mounika','Vijay','admin',95763.83,'9766343343','mv@gmail.com','cl',3,30000,null);

Query OK, 1 row affected (0.09 sec)

mysql> select *from employee_Dept_view;

```
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+---
---------+
| empid | first_name | last_name | design       | salary   | mobilenumber | email_id        | leavetype
| deptId | projId | manager_id |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+---
---------+
| 1001 | tanush    | kumar    | Admin       | 51653.98 | 9886202355  | tanush@gmail.com | cl      |
3 | 10000 |      1000 |
| 1002 | somu      | shekar   | SalesManager | 98763.83 | 9875323432  | somu@gmail.com   | pl
|     3 | 20000 |      1000 |
| 3000 | Mounika   | Vijay    | admin       | 95763.83 | 9766343343  | mv@gmail.com     | cl      |
3 | 30000 |     NULL |
+-------+------------+-----------+--------------+----------+--------------+-----------------+-----------+--------+--------+---
---------+
```

3 rows in set (0.00 sec)

mysql> show tables;

```
+---------------------+
| Tables_in_8647batch |
+---------------------+
| department          |
| employee            |
| employee_dept_view  |
| employee_view       |
| product             |
| project             |
| student             |
| studentbackup       |
+---------------------+
```
8 rows in set (0.08 sec)

mysql> desc employee_view;

```
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| first_name | varchar(20) | NO   |     | NULL    |       |
| last_name  | varchar(30) | YES  |     | NULL    |       |
| design     | varchar(30) | NO   |     | NULL    |       |
| salary     | double(10,2)| YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
```
4 rows in set (0.00 sec)

mysql> desc employee;

```
+--------------+-------------+------+-----+---------+----------------+
| Field        | Type        | Null | Key | Default | Extra          |
```

```
+--------------+--------------+------+-----+---------+----------------+
| empid        | int          | NO   | PRI | NULL    | auto_increment |
| first_name   | varchar(20)  | NO   |     | NULL    |                |
| last_name    | varchar(30)  | YES  |     | NULL    |                |
| design       | varchar(30)  | NO   |     | NULL    |                |
| salary       | double(10,2) | YES  |     | NULL    |                |
| mobilenumber | varchar(10)  | YES  |     | NULL    |                |
| email_id     | varchar(40)  | YES  | UNI | NULL    |                |
| leavetype    | varchar(5)   | YES  |     | NULL    |                |
| deptId       | int          | YES  | MUL | NULL    |                |
| projId       | int          | YES  | MUL | NULL    |                |
| manager_id   | int          | YES  | MUL | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
11 rows in set (0.01 sec)


mysql> insert into employee_view values('kavitha','ashwin','Testing',98763.65);
Query OK, 1 row affected (0.10 sec)


mysql> select *from employee_view;
+------------+-----------+----------------+----------+
| first_name | last_name | design         | salary   |
+------------+-----------+----------------+----------+
| Sunil      | Singh     | Testing        | 81853.98 |
| tanush     | kumar     | Admin          | 51653.98 |
| somu       | shekar    | SalesManager   | 98763.83 |
| manu       | hari      | SalesManager   | 98763.83 |
| Kiran      | shelke    | QualityManager | 97654.87 |
| Apoorva    | Sajjan    | hr             | 98763.83 |
| Mounika    | Vijay     | admin          | 95763.83 |
| kavitha    | ashwin    | Testing        | 98763.65 |
+------------+-----------+----------------+----------+
```

8 rows in set (0.00 sec)

mysql> select *from employee;

```
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design        | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| 1000 | Sunil      | Singh     | Testing       | 81853.98 | 9786202345   | sunil@gmail.com | pl        | 2 | 10000 |     1003 |
| 1001 | tanush     | kumar     | Admin         | 51653.98 | 9886202355   | tanush@gmail.com| cl        | 3 | 10000 |     1000 |
| 1002 | somu       | shekar    | SalesManager  | 98763.83 | 9875323432   | somu@gmail.com  | pl        | 3 | 20000 |     1000 |
| 1003 | manu       | hari      | SalesManager  | 98763.83 | 9875323432   | manu@gmail.com  | pl        | 2 | 20000 |     1002 |
| 1004 | Kiran      | shelke    | QualityManager| 97654.87 | 8763234232   | kr@gmail.com    | pl        | NULL | NULL |     1003 |
| 2000 | Apoorva    | Sajjan    | hr            | 98763.83 | 8766343343   | ap@gmail.com    | pl        | 4 | 30000 |     NULL |
| 3000 | Mounika    | Vijay     | admin         | 95763.83 | 9766343343   | mv@gmail.com    | cl        | 3 | 30000 |     NULL |
| 3001 | kavitha    | ashwin    | Testing       | 98763.65 | NULL         | NULL            | NULL      | NULL | NULL |     NULL |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
```

8 rows in set (0.00 sec)

mysql> create view employee_read_only as select last_name,salary,email_id,mobileno from employee;

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

mysql> select *from employee;

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

```
| empid | first_name | last_name | design        | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
| 1000 | Sunil      | Singh     | Testing       | 81853.98 | 9786202345   | sunil@gmail.com | pl        | 2      | 10000  | 1003       |
| 1001 | tanush     | kumar     | Admin         | 51653.98 | 9886202355   | tanush@gmail.com| cl        | 3      | 10000  | 1000       |
| 1002 | somu       | shekar    | SalesManager  | 98763.83 | 9875323432   | somu@gmail.com  | pl        | 3      | 20000  | 1000       |
| 1003 | manu       | hari      | SalesManager  | 98763.83 | 9875323432   | manu@gmail.com  | pl        | 2      | 20000  | 1002       |
| 1004 | Kiran      | shelke    | QualityManager| 97654.87 | 8763234232   | kr@gmail.com    | pl        | NULL   | NULL   | 1003       |
| 2000 | Apoorva    | Sajjan    | hr            | 98763.83 | 8766343343   | ap@gmail.com    | pl        | 4      | 30000  | NULL       |
| 3000 | Mounika    | Vijay     | admin         | 95763.83 | 9766343343   | mv@gmail.com    | cl        | 3      | 30000  | NULL       |
| 3001 | kavitha    | ashwin    | Testing       | 98763.65 | NULL         | NULL            | NULL      | NULL   | NULL   | NULL       |
+-------+------------+-----------+---------------+----------+--------------+-----------------+-----------+--------+--------+------------+
8 rows in set (0.00 sec)


mysql> create view employee_read_only as select last_name,salary,email_id,mobilenumber from employee;
Query OK, 0 rows affected (0.13 sec)


mysql> desc employee_read_only;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| last_name    | varchar(30)  | YES  |     | NULL    |       |
| salary       | double(10,2) | YES  |     | NULL    |       |
| email_id     | varchar(40)  | YES  |     | NULL    |       |
```

| mobilenumber | varchar(10) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into employee_read_only values('harshitha',90876.87,'hr@gmail.com','6538337377');

ERROR 1423 (HY000): Field of view '8647batch.employee_read_only' underlying table doesn't have a default value

mysql> desc employee;

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

| Field | Type | Null | Key | Default | Extra |

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

| empid | int | NO | PRI | NULL | auto_increment |

| first_name | varchar(20) | NO | | NULL | |

| last_name | varchar(30) | YES | | NULL | |

| design | varchar(30) | NO | | NULL | |

| salary | double(10,2) | YES | | NULL | |

| mobilenumber | varchar(10) | YES | | NULL | |

| email_id | varchar(40) | YES | UNI | NULL | |

| leavetype | varchar(5) | YES | | NULL | |

| deptId | int | YES | MUL | NULL | |

| projId | int | YES | MUL | NULL | |

| manager_id | int | YES | MUL | NULL | |

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

11 rows in set (0.00 sec)

mysql> create or replace view employee_read_only as select first_name,last_name,design,salary,email_id,mobilenumber from employee;

Query OK, 0 rows affected (0.61 sec)

mysql> desc employee_read_only;

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

| Field | Type | Null | Key | Default | Extra |

```
+--------------+--------------+------+-----+---------+-------+
| first_name   | varchar(20)  | NO   |     | NULL    |       |
| last_name    | varchar(30)  | YES  |     | NULL    |       |
| design       | varchar(30)  | NO   |     | NULL    |       |
| salary       | double(10,2) | YES  |     | NULL    |       |
| email_id     | varchar(40)  | YES  |     | NULL    |       |
| mobilenumber | varchar(10)  | YES  |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
6 rows in set (0.00 sec)


mysql> insert into employee_read_only
values('Menaka','harshitha','developement',90876.87,'hr@gmail.com','6538337377');

Query OK, 1 row affected (0.11 sec)


mysql> select employee_read_only;

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

mysql> select *from employee_read_only;

+------------+-----------+---------------+----------+-----------------+--------------+
| first_name | last_name | design        | salary   | email_id        | mobilenumber |
+------------+-----------+---------------+----------+-----------------+--------------+
| Sunil      | Singh     | Testing       | 81853.98 | sunil@gmail.com | 9786202345   |
| tanush     | kumar     | Admin         | 51653.98 | tanush@gmail.com| 9886202355   |
| somu       | shekar    | SalesManager  | 98763.83 | somu@gmail.com  | 9875323432   |
| manu       | hari      | SalesManager  | 98763.83 | manu@gmail.com  | 9875323432   |
| Kiran      | shelke    | QualityManager| 97654.87 | kr@gmail.com    | 8763234232   |
| Apoorva    | Sajjan    | hr            | 98763.83 | ap@gmail.com    | 8766343343   |
| Mounika    | Vijay     | admin         | 95763.83 | mv@gmail.com    | 9766343343   |
| kavitha    | ashwin    | Testing       | 98763.65 | NULL            | NULL         |
| Menaka     | harshitha | developement  | 90876.87 | hr@gmail.com    | 6538337377   |
+------------+-----------+---------------+----------+-----------------+--------------+
9 rows in set (0.00 sec)
```

```
mysql> select *from department;

+---------+------------+-------------+-----------+
| dept_id | deptname   | companyname | location  |
+---------+------------+-------------+-----------+
|       2 | Development | edubridge   | Mangalore |
|       3 | hr          | edubridge   | mysore    |
|       4 | sales       | edubridge   | delhi     |
+---------+------------+-------------+-----------+
3 rows in set (0.00 sec)


mysql> create view employee_department_view
    -> as
    -> select first_name,last_name,design,email_id,mobilenumber,
    -> deptname,companyname,location
    -> from employee e
    -> inner join
    -> department d
    -> on(e.deptid=d.dept_id);
Query OK, 0 rows affected (0.11 sec)


mysql> desc employee_department_view;

+--------------+-------------+------+-----+-----------+-------+
| Field        | Type        | Null | Key | Default   | Extra |
+--------------+-------------+------+-----+-----------+-------+
| first_name   | varchar(20) | NO   |     | NULL      |       |
| last_name    | varchar(30) | YES  |     | NULL      |       |
| design       | varchar(30) | NO   |     | NULL      |       |
| email_id     | varchar(40) | YES  |     | NULL      |       |
| mobilenumber | varchar(10) | YES  |     | NULL      |       |
| deptname     | varchar(20) | NO   |     | NULL      |       |
```

| companyname | varchar(20) | YES | | edubridge | |

| location | varchar(20) | YES | | NULL | |

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

8 rows in set (0.00 sec)

mysql> select *from employee_department_view;

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

| first_name | last_name | design | email_id | mobilenumber | deptname | companyname | location |

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

| Sunil | Singh | Testing | sunil@gmail.com | 9786202345 | Development | edubridge | Mangalore |

| manu | hari | SalesManager | manu@gmail.com | 9875323432 | Development | edubridge | Mangalore |

| tanush | kumar | Admin | tanush@gmail.com | 9886202355 | hr | edubridge | mysore |

| somu | shekar | SalesManager | somu@gmail.com | 9875323432 | hr | edubridge | mysore |

| Mounika | Vijay | admin | mv@gmail.com | 9766343343 | hr | edubridge | mysore |

| Apoorva | Sajjan | hr | ap@gmail.com | 8766343343 | sales | edubridge | delhi |

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

6 rows in set (0.00 sec)

mysql> desc employee;

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

| Field | Type | Null | Key | Default | Extra |

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

| empid | int | NO | PRI | NULL | auto_increment |

| first_name | varchar(20) | NO | | NULL | |

| last_name | varchar(30) | YES | | NULL | |

| design | varchar(30) | NO | | NULL | |

```
| salary       | double(10,2) | YES  |     | NULL    |             |
| mobilenumber | varchar(10)  | YES  |     | NULL    |             |
| email_id     | varchar(40)  | YES  | UNI | NULL    |             |
| leavetype    | varchar(5)   | YES  |     | NULL    |             |
| deptId       | int          | YES  | MUL | NULL    |             |
| projId       | int          | YES  | MUL | NULL    |             |
| manager_id   | int          | YES  | MUL | NULL    |             |
+--------------+--------------+------+-----+---------+---------------+
11 rows in set (0.00 sec)


mysql> insert into employee
values(3000,'Umesh','Biradar','Admin',98763.67,'9837738484','umesh@gmail.com','cl',4,10000,null);

ERROR 1062 (23000): Duplicate entry '3000' for key 'employee.PRIMARY'

mysql> insert into employee
values(5000,'Umesh','Biradar','Admin',98763.67,'9837738484','umesh@gmail.com','cl',4,10000,null);

Query OK, 1 row affected (0.09 sec)


mysql> select *from employee_department_view;
+------------+-----------+-------------+-----------------+--------------+-------------+------------+-----------+
| first_name | last_name | design      | email_id        | mobilenumber | deptname    | companyname | location |
+------------+-----------+-------------+-----------------+--------------+-------------+------------+-----------+
| Sunil      | Singh     | Testing     | sunil@gmail.com | 9786202345   | Development | edubridge   | Mangalore |
| manu       | hari      | SalesManager| manu@gmail.com  | 9875323432   | Development | edubridge   | Mangalore |
| tanush     | kumar     | Admin       | tanush@gmail.com| 9886202355   | hr          | edubridge   | mysore    |
| somu       | shekar    | SalesManager| somu@gmail.com  | 9875323432   | hr          | edubridge   | mysore    |
| Mounika    | Vijay     | admin       | mv@gmail.com    | 9766343343   | hr          | edubridge   | mysore    |
| Apoorva    | Sajjan    | hr          | ap@gmail.com    | 8766343343   | sales       | edubridge   | delhi     |
```

| Umesh | Biradar | Admin | umesh@gmail.com | 9837738484 | sales | edubridge | delhi |

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

7 rows in set (0.00 sec)

mysql> show table;s

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

   -> show tables;

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 's

show tables' at line 1

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_8647batch |

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

| department |

| employee |

| employee_department_view |

| employee_dept_view |

| employee_read_only |

| employee_view |

| product |

| project |

| student |

| studentbackup |

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

10 rows in set (0.00 sec)

```
mysql> desc employee_department_view ;

+--------------+-------------+------+-----+-----------+-------+
| Field        | Type        | Null | Key | Default   | Extra |
+--------------+-------------+------+-----+-----------+-------+
| first_name   | varchar(20) | NO   |     | NULL      |       |
| last_name    | varchar(30) | YES  |     | NULL      |       |
| design       | varchar(30) | NO   |     | NULL      |       |
| email_id     | varchar(40) | YES  |     | NULL      |       |
| mobilenumber | varchar(10) | YES  |     | NULL      |       |
| deptname     | varchar(20) | NO   |     | NULL      |       |
| companyname  | varchar(20) | YES  |     | edubridge |       |
| location     | varchar(20) | YES  |     | NULL      |       |
+--------------+-------------+------+-----+-----------+-------+
8 rows in set (0.00 sec)


mysql> insert into employee_department_view
values('pavithra','Ravichandiran','developer','pavi@gmail.com','8763434321','development','capgem
eni','bangalore');

ERROR 1394 (HY000): Can not insert into join view '8647batch.employee_department_view' without
fields list

mysql> insert into
employee_department_view(first_name,last_name,design,email_id,mobilenumber)
values('pavithra','Ravichandiran','developer','pavi@gmail.com','8790393343');

Query OK, 1 row affected (0.09 sec)


mysql> desc employee_department_view ;

+--------------+-------------+------+-----+-----------+-------+
| Field        | Type        | Null | Key | Default   | Extra |
+--------------+-------------+------+-----+-----------+-------+
| first_name   | varchar(20) | NO   |     | NULL      |       |
| last_name    | varchar(30) | YES  |     | NULL      |       |
| design       | varchar(30) | NO   |     | NULL      |       |
| email_id     | varchar(40) | YES  |     | NULL      |       |
```

| mobilenumber | varchar(10) | YES | | NULL | |

| deptname | varchar(20) | NO | | NULL | |

| companyname | varchar(20) | YES | | edubridge | |

| location | varchar(20) | YES | | NULL | |

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

8 rows in set (0.00 sec)

mysql> select *from employee_department_view;

+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
| first_name | last_name | design | email_id | mobilenumber | deptname | companyname | location |
+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
Sunil	Singh	Testing	sunil@gmail.com	9786202345	Development	edubridge	Mangalore
manu	hari	SalesManager	manu@gmail.com	9875323432	Development	edubridge	Mangalore
tanush	kumar	Admin	tanush@gmail.com	9886202355	hr	edubridge	mysore
somu	shekar	SalesManager	somu@gmail.com	9875323432	hr	edubridge	mysore
Mounika	Vijay	admin	mv@gmail.com	9766343343	hr	edubridge	mysore
Apoorva	Sajjan	hr	ap@gmail.com	8766343343	sales	edubridge	delhi
Umesh	Biradar	Admin	umesh@gmail.com	9837738484	sales	edubridge	delhi
+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+

7 rows in set (0.00 sec)

mysql> select *from employee;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

```
+-------+-----------+--------------+---------------+----------+-------------+-----------------+-----------+--------+--------+-----------+
| 1000 | Sunil     | Singh        | Testing       | 81853.98 | 9786202345  | sunil@gmail.com | pl        |      2 |  10000 |      1003 |
| 1001 | tanush    | kumar        | Admin         | 51653.98 | 9886202355  | tanush@gmail.com | cl       |      3 |  10000 |      1000 |
| 1002 | somu      | shekar       | SalesManager  | 98763.83 | 9875323432  | somu@gmail.com  | pl        |      3 |  20000 |      1000 |
| 1003 | manu      | hari         | SalesManager  | 98763.83 | 9875323432  | manu@gmail.com  | pl        |      2 |  20000 |      1002 |
| 1004 | Kiran     | shelke       | QualityManager | 97654.87 | 8763234232 | kr@gmail.com    | pl        |   NULL |   NULL |      1003 |
| 2000 | Apoorva   | Sajjan       | hr            | 98763.83 | 8766343343  | ap@gmail.com    | pl        |      4 |  30000 |      NULL |
| 3000 | Mounika   | Vijay        | admin         | 95763.83 | 9766343343  | mv@gmail.com    | cl        |      3 |  30000 |      NULL |
| 3001 | kavitha   | ashwin       | Testing       | 98763.65 | NULL        | NULL            | NULL      |   NULL |   NULL |      NULL |
| 3002 | Menaka    | harshitha    | developement  | 90876.87 | 6538337377  | hr@gmail.com    | NULL      |   NULL |   NULL |      NULL |
| 5000 | Umesh     | Biradar      | Admin         | 98763.67 | 9837738484  | umesh@gmail.com | cl        |      4 |  10000 |      NULL |
| 5001 | pavithra  | Ravichandiran | developer    |     NULL | 8790393343  | pavi@gmail.com  | NULL      |   NULL |   NULL |      NULL |
+-------+-----------+--------------+---------------+----------+-------------+-----------------+-----------+--------+--------+-----------+
11 rows in set (0.00 sec)
```

mysql> select *from employee_department_view;

```
+------------+-----------+--------------+-----------------+-------------+------------+------------+-----------+
| first_name | last_name | design       | email_id        | mobilenumber | deptname  | companyname | location  |
+------------+-----------+--------------+-----------------+-------------+------------+------------+-----------+
| Sunil      | Singh     | Testing      | sunil@gmail.com | 9786202345  | Development | edubridge  | Mangalore |
| manu       | hari      | SalesManager | manu@gmail.com  | 9875323432  | Development | edubridge  | Mangalore |
```

| tanush | kumar | Admin | tanush@gmail.com | 9886202355 | hr | edubridge | mysore |

| somu | shekar | SalesManager | somu@gmail.com | 9875323432 | hr | edubridge | mysore |

| Mounika | Vijay | admin | mv@gmail.com | 9766343343 | hr | edubridge | mysore |

| Apoorva | Sajjan | hr | ap@gmail.com | 8766343343 | sales | edubridge | delhi |

| Umesh | Biradar | Admin | umesh@gmail.com | 9837738484 | sales | edubridge | delhi |

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

7 rows in set (0.00 sec)

mysql> update employee_department_view set deptname='marketing' where first_name='Umesh';

Query OK, 1 row affected (0.38 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select *from employee_department_view;

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

| first_name | last_name | design | email_id | mobilenumber | deptname | companyname | location |

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

| Sunil | Singh | Testing | sunil@gmail.com | 9786202345 | Development | edubridge | Mangalore |

| manu | hari | SalesManager | manu@gmail.com | 9875323432 | Development | edubridge | Mangalore |

| tanush | kumar | Admin | tanush@gmail.com | 9886202355 | hr | edubridge | mysore |

| somu | shekar | SalesManager | somu@gmail.com | 9875323432 | hr | edubridge | mysore |

| Mounika | Vijay | admin | mv@gmail.com | 9766343343 | hr | edubridge | mysore |

| Apoorva | Sajjan | hr | ap@gmail.com | 8766343343 | marketing | edubridge | delhi |

| Umesh | Biradar | Admin | umesh@gmail.com | 9837738484 | marketing | edubridge | delhi |

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

mysql> select *from department;

```
+---------+-------------+-------------+-----------+
| dept_id | deptname    | companyname | location  |
+---------+-------------+-------------+-----------+
|       2 | Development | edubridge   | Mangalore |
|       3 | hr          | edubridge   | mysore    |
|       4 | marketing   | edubridge   | delhi     |
+---------+-------------+-------------+-----------+
```
3 rows in set (0.00 sec)

mysql> select first_name,last_name,design,email_id,mobilenumber,

   -> deptname,companyname,location

   -> from employee e

   -> inner join

   -> department d

   -> on(e.deptid=d.dept_id);

```
+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
| first_name | last_name | design       | email_id        | mobilenumber | deptname    | companyname | location  |
+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
| Sunil      | Singh     | Testing      | sunil@gmail.com | 9786202345   | Development | edubridge   | Mangalore |
| manu       | hari      | SalesManager | manu@gmail.com  | 9875323432   | Development | edubridge   | Mangalore |
| tanush     | kumar     | Admin        | tanush@gmail.com| 9886202355   | hr          | edubridge   | mysore    |
| somu       | shekar    | SalesManager | somu@gmail.com  | 9875323432   | hr          | edubridge   | mysore    |
| Mounika    | Vijay     | admin        | mv@gmail.com    | 9766343343   | hr          | edubridge   | mysore    |
```

| Apoorva | Sajjan | hr | ap@gmail.com | 8766343343 | marketing | edubridge | delhi |

| Umesh | Biradar | Admin | umesh@gmail.com | 9837738484 | marketing | edubridge | delhi |

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

7 rows in set (0.01 sec)

mysql> select *from employee;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

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

| 1000 | Sunil | Singh | Testing | 81853.98 | 9786202345 | sunil@gmail.com | pl | 2 | 10000 | 1003 |

| 1001 | tanush | kumar | Admin | 51653.98 | 9886202355 | tanush@gmail.com | cl | 3 | 10000 | 1000 |

| 1002 | somu | shekar | SalesManager | 98763.83 | 9875323432 | somu@gmail.com | pl | 3 | 20000 | 1000 |

| 1003 | manu | hari | SalesManager | 98763.83 | 9875323432 | manu@gmail.com | pl | 2 | 20000 | 1002 |

| 1004 | Kiran | shelke | QualityManager | 97654.87 | 8763234232 | kr@gmail.com | pl | NULL | NULL | 1003 |

| 2000 | Apoorva | Sajjan | hr | 98763.83 | 8766343343 | ap@gmail.com | pl | 4 | 30000 | NULL |

| 3000 | Mounika | Vijay | admin | 95763.83 | 9766343343 | mv@gmail.com | cl | 3 | 30000 | NULL |

| 3001 | kavitha | ashwin | Testing | 98763.65 | NULL | NULL | NULL | NULL | NULL | NULL |

| 3002 | Menaka | harshitha | developement | 90876.87 | 6538337377 | hr@gmail.com | NULL | NULL | NULL | NULL |

| 5000 | Umesh | Biradar | Admin | 98763.67 | 9837738484 | umesh@gmail.com | cl | 4 | 10000 | NULL |

| 5001 | pavithra | Ravichandiran | developer | NULL | 8790393343 | pavi@gmail.com | NULL | NULL | NULL | NULL |

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

11 rows in set (0.00 sec)


mysql> select *from department;

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

| dept_id | deptname   | companyname | location  |

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

|       2 | Development | edubridge   | Mangalore |

|       3 | hr          | edubridge   | mysore    |

|       4 | marketing   | edubridge   | delhi     |

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

3 rows in set (0.00 sec)


mysql> select first_name,last_name,design,email_id,mobilenumber,

    -> deptname,companyname,location

    -> from employee e

    -> inner join

    -> department d

    -> on(e.deptid=d.dept_id);

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

| first_name | last_name | design       | email_id         | mobilenumber | deptname    | companyname | location  |

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

| Sunil      | Singh     | Testing      | sunil@gmail.com  | 9786202345   | Development | edubridge   | Mangalore |

| manu       | hari      | SalesManager | manu@gmail.com   | 9875323432   | Development | edubridge   | Mangalore |

| tanush     | kumar     | Admin        | tanush@gmail.com | 9886202355   | hr          | edubridge   | mysore    |

| somu       | shekar    | SalesManager | somu@gmail.com   | 9875323432   | hr          | edubridge   | mysore    |
```

| Mounika | Vijay | admin | mv@gmail.com | 9766343343 | hr | edubridge |
mysore |

| Apoorva | Sajjan | hr | ap@gmail.com | 8766343343 | marketing | edubridge |
delhi |

| Umesh | Biradar | Admin | umesh@gmail.com | 9837738484 | marketing | edubridge
| delhi |

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

7 rows in set (0.00 sec)

mysql> create view employee_department_view

    -> as

    -> select first_name,last_name,design,email_id,mobilenumber,

    -> deptname,companyname,location

    -> from employee e

    -> inner join

    -> department d

    -> on(e.deptid=d.dept_id);

ERROR 1050 (42S01): Table 'employee_department_view' already exists

mysql> create or replace view employee_department_view

    -> as

    -> select first_name,last_name,design,email_id,mobilenumber,

    -> deptname,companyname,location

    -> from employee e

    -> inner join

    -> department d

    -> on(e.deptid=d.dept_id);

Query OK, 0 rows affected (0.18 sec)

mysql> desc employee_department_view;

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

| Field | Type | Null | Key | Default | Extra |

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

```
| first_name   | varchar(20) | NO  |   | NULL     |     |
| last_name    | varchar(30) | YES |   | NULL     |     |
| design       | varchar(30) | NO  |   | NULL     |     |
| email_id     | varchar(40) | YES |   | NULL     |     |
| mobilenumber | varchar(10) | YES |   | NULL     |     |
| deptname     | varchar(20) | NO  |   | NULL     |     |
| companyname  | varchar(20) | YES |   | edubridge |     |
| location     | varchar(20) | YES |   | NULL     |     |
+--------------+-------------+------+-----+-----------+-------+
8 rows in set (0.01 sec)
```

```
mysql> select *From employee_department_view;

+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
| first_name | last_name | design       | email_id        | mobilenumber | deptname    | companyname | location  |
+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
| Sunil      | Singh     | Testing      | sunil@gmail.com | 9786202345   | Development | edubridge   | Mangalore |
| manu       | hari      | SalesManager | manu@gmail.com  | 9875323432   | Development | edubridge   | Mangalore |
| tanush     | kumar     | Admin        | tanush@gmail.com| 9886202355   | hr          | edubridge   | mysore    |
| somu       | shekar    | SalesManager | somu@gmail.com  | 9875323432   | hr          | edubridge   | mysore    |
| Mounika    | Vijay     | admin        | mv@gmail.com    | 9766343343   | hr          | edubridge   | mysore    |
| Apoorva    | Sajjan    | hr           | ap@gmail.com    | 8766343343   | marketing   | edubridge   | delhi     |
| Umesh      | Biradar   | Admin        | umesh@gmail.com | 9837738484   | marketing   | edubridge   | delhi     |
+------------+-----------+--------------+-----------------+--------------+-------------+-------------+-----------+
7 rows in set (0.00 sec)
```

```
mysql> create view emp_dept_second as select *from employee where dept_id=2;
```

ERROR 1054 (42S22): Unknown column 'dept_id' in 'where clause'

mysql> create view emp_dept_second as select *from employee where deptid=2;

Query OK, 0 rows affected (0.39 sec)

mysql> create view emp_dept_third as select *from employee where deptid=3;

Query OK, 0 rows affected (0.12 sec)

mysql> create view emp_dept_fourth as select *from employee where deptid=4;

Query OK, 0 rows affected (0.13 sec)

mysql> show tables;

```
+-------------------------+
| Tables_in_8647batch     |
+-------------------------+
| department              |
| emp_dept_fourth         |
| emp_dept_second         |
| emp_dept_third          |
| employee                |
| employee_department_view |
| employee_dept_view      |
| employee_read_only      |
| employee_view           |
| product                 |
| project                 |
| student                 |
| studentbackup           |
+-------------------------+
```

13 rows in set (0.00 sec)

mysql> select *from emp_dept_second;

```
+-------+------------+-----------+-------------+----------+-------------+----------------+-----------+--------+-------+------------+
| empid | first_name | last_name | design      | salary   | mobilenumber | email_id       | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+-------------+----------+-------------+----------------+-----------+--------+-------+------------+
| 1000 | Sunil      | Singh     | Testing     | 81853.98 | 9786202345  | sunil@gmail.com | pl        |      2 | 10000 |       1003 |
| 1003 | manu       | hari      | SalesManager | 98763.83 | 9875323432  | manu@gmail.com  | pl        |      2 | 20000 |       1002 |
+-------+------------+-----------+-------------+----------+-------------+----------------+-----------+--------+-------+------------+
2 rows in set (0.00 sec)
```

mysql> select *from emp_dept_third;

```
+-------+------------+-----------+-------------+----------+-------------+----------------+-----------+--------+-------+------------+
| empid | first_name | last_name | design      | salary   | mobilenumber | email_id       | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+-------------+----------+-------------+----------------+-----------+--------+-------+------------+
| 1001 | tanush     | kumar     | Admin       | 51653.98 | 9886202355  | tanush@gmail.com | cl      |      3 | 10000 |       1000 |
| 1002 | somu       | shekar    | SalesManager | 98763.83 | 9875323432  | somu@gmail.com  | pl        |      3 | 20000 |       1000 |
| 3000 | Mounika    | Vijay     | admin       | 95763.83 | 9766343343  | mv@gmail.com    | cl        |      3 | 30000 |       NULL |
+-------+------------+-----------+-------------+----------+-------------+----------------+-----------+--------+-------+------------+
3 rows in set (0.00 sec)
```

mysql> select *from emp_dept_fourth
    -> ;

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

```
| empid | first_name | last_name | design | salary   | mobilenumber | email_id      | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+--------+----------+--------------+---------------+-----------+--------+--------+------------+
| 2000 | Apoorva    | Sajjan    | hr     | 98763.83 | 8766343343   | ap@gmail.com  | pl        |      4 | 30000  |    NULL    |
| 5000 | Umesh      | Biradar   | Admin  | 98763.67 | 9837738484   | umesh@gmail.com | cl      |      4 | 10000  |    NULL    |
+-------+------------+-----------+--------+----------+--------------+---------------+-----------+--------+--------+------------+
2 rows in set (0.00 sec)


mysql> update emp_dept_fourth set salary=99763.00 where empid=2000;

Query OK, 1 row affected (0.37 sec)

Rows matched: 1  Changed: 1  Warnings: 0


mysql> select *from emp_dept_fourth
    -> ;
+-------+------------+-----------+--------+----------+--------------+---------------+-----------+--------+--------+------------+
| empid | first_name | last_name | design | salary   | mobilenumber | email_id      | leavetype | deptId | projId | manager_id |
+-------+------------+-----------+--------+----------+--------------+---------------+-----------+--------+--------+------------+
| 2000 | Apoorva    | Sajjan    | hr     | 99763.00 | 8766343343   | ap@gmail.com  | pl        |      4 | 30000  |    NULL    |
| 5000 | Umesh      | Biradar   | Admin  | 98763.67 | 9837738484   | umesh@gmail.com | cl      |      4 | 10000  |    NULL    |
+-------+------------+-----------+--------+----------+--------------+---------------+-----------+--------+--------+------------+
2 rows in set (0.00 sec)


mysql> select *from employee;
+-------+------------+--------------+---------------+----------+-------------+-----------------+-----------+--------+--------+------------+
```

empid	first_name	last_name	design	salary	mobilenumber	email_id	leavetype	deptId	projId	manager_id
1000	Sunil	Singh	Testing	81853.98	9786202345	sunil@gmail.com	pl	2	10000	1003
1001	tanush	kumar	Admin	51653.98	9886202355	tanush@gmail.com	cl	3	10000	1000
1002	somu	shekar	SalesManager	98763.83	9875323432	somu@gmail.com	pl	3	20000	1000
1003	manu	hari	SalesManager	98763.83	9875323432	manu@gmail.com	pl	2	20000	1002
1004	Kiran	shelke	QualityManager	97654.87	8763234232	kr@gmail.com	pl	NULL	NULL	1003
2000	Apoorva	Sajjan	hr	99763.00	8766343343	ap@gmail.com	pl	4	30000	NULL
3000	Mounika	Vijay	admin	95763.83	9766343343	mv@gmail.com	cl	3	30000	NULL
3001	kavitha	ashwin	Testing	98763.65	NULL	NULL	NULL	NULL	NULL	NULL
3002	Menaka	harshitha	developement	90876.87	6538337377	hr@gmail.com	NULL	NULL	NULL	NULL
5000	Umesh	Biradar	Admin	98763.67	9837738484	umesh@gmail.com	cl	4	10000	NULL
5001	pavithra	Ravichandiran	developer	NULL	8790393343	pavi@gmail.com	NULL	NULL	NULL	NULL

11 rows in set (0.00 sec)

mysql> show tables;

+-------------------------+
| Tables_in_8647batch |
+-------------------------+
| department |
| emp_dept_fourth |

```
| emp_dept_second         |

| emp_dept_third          |

| employee                |

| employee_department_view |

| employee_dept_view      |

| employee_read_only      |

| employee_view           |

| product                 |

| project                 |

| student                 |

| studentbackup           |

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

13 rows in set (0.00 sec)

mysql> select *from employee_department_view;

```
+------------+-----------+-------------+-----------------+-------------+------------+------------+----------+
| first_name | last_name | design      | email_id        | mobilenumber | deptname   | companyname | location |
+------------+-----------+-------------+-----------------+-------------+------------+------------+----------+
| Sunil      | Singh     | Testing     | sunil@gmail.com | 9786202345  | Development | edubridge  | Mangalore |
| manu       | hari      | SalesManager | manu@gmail.com | 9875323432  | Development | edubridge  | Mangalore |
| tanush     | kumar     | Admin       | tanush@gmail.com | 9886202355 | hr         | edubridge  | mysore   |
| somu       | shekar    | SalesManager | somu@gmail.com | 9875323432  | hr         | edubridge  | mysore   |
| Mounika    | Vijay     | admin       | mv@gmail.com    | 9766343343  | hr         | edubridge  | mysore   |
| Apoorva    | Sajjan    | hr          | ap@gmail.com    | 8766343343  | marketing  | edubridge  | delhi    |
| Umesh      | Biradar   | Admin       | umesh@gmail.com | 9837738484  | marketing  | edubridge  | delhi    |
+------------+-----------+-------------+-----------------+-------------+------------+------------+----------+
```

7 rows in set (0.00 sec)

mysql> update employee_department_view set email_id='sunil23@gmail.com', companyname='wipro' where first_name='sunil';

ERROR 1393 (HY000): Can not modify more than one base table through a join view '8647batch.employee_department_view'

mysql> update employee_department_view set email_id='sunil23@gmail.com' where first_name='sunil';

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee_department_view set companyname='wipro' where first_name='sunil';

Query OK, 1 row affected (0.09 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select *from employee_department_view;

```
+------------+-----------+--------------+-------------------+--------------+-------------+-------------+-----------+
| first_name | last_name | design       | email_id          | mobilenumber | deptname    | companyname | location  |
+------------+-----------+--------------+-------------------+--------------+-------------+-------------+-----------+
| Sunil      | Singh     | Testing      | sunil23@gmail.com | 9786202345   | Development | wipro       | Mangalore |
| manu       | hari      | SalesManager | manu@gmail.com    | 9875323432   | Development | wipro       | Mangalore |
| tanush     | kumar     | Admin        | tanush@gmail.com  | 9886202355   | hr          | edubridge   | mysore    |
| somu       | shekar    | SalesManager | somu@gmail.com    | 9875323432   | hr          | edubridge   | mysore    |
| Mounika    | Vijay     | admin        | mv@gmail.com      | 9766343343   | hr          | edubridge   | mysore    |
| Apoorva    | Sajjan    | hr           | ap@gmail.com      | 8766343343   | marketing   | edubridge   | delhi     |
| Umesh      | Biradar   | Admin        | umesh@gmail.com   | 9837738484   | marketing   | edubridge   | delhi     |
+------------+-----------+--------------+-------------------+--------------+-------------+-------------+-----------+
```

7 rows in set (0.00 sec)

mysql> select *from department;

```
+---------+-------------+-------------+-----------+
| dept_id | deptname    | companyname | location  |
+---------+-------------+-------------+-----------+
|       2 | Development | wipro       | Mangalore |
|       3 | hr          | edubridge   | mysore    |
|       4 | marketing   | edubridge   | delhi     |
+---------+-------------+-------------+-----------+
```

3 rows in set (0.00 sec)

mysql> select *from employee;

```
+-------+------------+--------------+--------------+----------+-------------+------------------+-----------+--------+--------+------------+
| empid | first_name | last_name    | design       | salary   | mobilenumber | email_id        | leavetype | deptId | projId | manager_id |
+-------+------------+--------------+--------------+----------+-------------+------------------+-----------+--------+--------+------------+
|  1000 | Sunil      | Singh        | Testing      | 81853.98 | 9786202345  | sunil23@gmail.com | pl        |      2 |  10000 |       1003 |
|  1001 | tanush     | kumar        | Admin        | 51653.98 | 9886202355  | tanush@gmail.com  | cl        |      3 |  10000 |       1000 |
|  1002 | somu       | shekar       | SalesManager | 98763.83 | 9875323432  | somu@gmail.com    | pl        |      3 |  20000 |       1000 |
|  1003 | manu       | hari         | SalesManager | 98763.83 | 9875323432  | manu@gmail.com    | pl        |      2 |  20000 |       1002 |
|  1004 | Kiran      | shelke       | QualityManager | 97654.87 | 8763234232 | kr@gmail.com      | pl        |   NULL |   NULL |       1003 |
|  2000 | Apoorva    | Sajjan       | hr           | 99763.00 | 8766343343  | ap@gmail.com      | pl        |      4 |  30000 |       NULL |
|  3000 | Mounika    | Vijay        | admin        | 95763.83 | 9766343343  | mv@gmail.com      | cl        |      3 |  30000 |       NULL |
|  3001 | kavitha    | ashwin       | Testing      | 98763.65 | NULL        | NULL              | NULL      |   NULL |   NULL |       NULL |
```

| 3002 | Menaka | harshitha | developement | 90876.87 | 6538337377 | hr@gmail.com | NULL | NULL | NULL | NULL |

| 5000 | Umesh | Biradar | Admin | 98763.67 | 9837738484 | umesh@gmail.com | cl | 4 | 10000 | NULL |

| 5001 | pavithra | Ravichandiran | developer | NULL | 8790393343 | pavi@gmail.com | NULL | NULL | NULL | NULL |

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

11 rows in set (0.00 sec)

mysql> select *from employee_department_view;

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

| first_name | last_name | design | email_id | mobilenumber | deptname | companyname | location |

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

| Sunil | Singh | Testing | sunil23@gmail.com | 9786202345 | Development | wipro | Mangalore |

| manu | hari | SalesManager | manu@gmail.com | 9875323432 | Development | wipro | Mangalore |

| tanush | kumar | Admin | tanush@gmail.com | 9886202355 | hr | edubridge | mysore |

| somu | shekar | SalesManager | somu@gmail.com | 9875323432 | hr | edubridge | mysore |

| Mounika | Vijay | admin | mv@gmail.com | 9766343343 | hr | edubridge | mysore |

| Apoorva | Sajjan | hr | ap@gmail.com | 8766343343 | marketing | edubridge | delhi |

| Umesh | Biradar | Admin | umesh@gmail.com | 9837738484 | marketing | edubridge | delhi |

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

7 rows in set (0.00 sec)

mysql> alter view employee_department_view add address varchar(100);

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 'add address varchar(100)' at line 1

mysql> show tables;

```
+------------------------+
| Tables_in_8647batch    |
+------------------------+
| department             |
| emp_dept_fourth        |
| emp_dept_second        |
| emp_dept_third         |
| employee               |
| employee_department_view |
| employee_dept_view     |
| employee_read_only     |
| employee_view          |
| product                |
| project                |
| student                |
| studentbackup          |
+------------------------+
13 rows in set (0.00 sec)


mysql> drop view emp_dept_second;
Query OK, 0 rows affected (0.15 sec)


mysql> show tables;
+------------------------+
| Tables_in_8647batch    |
+------------------------+
| department             |
| emp_dept_fourth        |
| emp_dept_third         |
| employee               |
| employee_department_view |
```

| employee_dept_view |

| employee_read_only |

| employee_view |

| product |

| project |

| student |

| studentbackup |

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

12 rows in set (0.00 sec)

mysql> select *from employee where deptid=2;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

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

| 1000 | Sunil | Singh | Testing | 81853.98 | 9786202345 | sunil23@gmail.com | pl | 2 | 10000 | 1003 |

| 1003 | manu | hari | SalesManager | 98763.83 | 9875323432 | manu@gmail.com | pl | 2 | 20000 | 1002 |

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

2 rows in set (0.00 sec)

mysql> select *from employee where deptid=3;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

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

| 1001 | tanush | kumar | Admin | 51653.98 | 9886202355 | tanush@gmail.com | cl | 3 | 10000 | 1000 |

| 1002 | somu | shekar | SalesManager | 98763.83 | 9875323432 | somu@gmail.com | pl | 3 | 20000 | 1000 |

| 3000 | Mounika | Vijay | admin | 95763.83 | 9766343343 | mv@gmail.com | cl | 3 | 30000 | NULL |

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

3 rows in set (0.00 sec)

mysql> select *from employee where deptid=2 union select *from employee where deptid=3;

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

| empid | first_name | last_name | design | salary | mobilenumber | email_id | leavetype | deptId | projId | manager_id |

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

| 1000 | Sunil | Singh | Testing | 81853.98 | 9786202345 | sunil23@gmail.com | pl | 2 | 10000 | 1003 |

| 1003 | manu | hari | SalesManager | 98763.83 | 9875323432 | manu@gmail.com | pl | 2 | 20000 | 1002 |

| 1001 | tanush | kumar | Admin | 51653.98 | 9886202355 | tanush@gmail.com | cl | 3 | 10000 | 1000 |

| 1002 | somu | shekar | SalesManager | 98763.83 | 9875323432 | somu@gmail.com | pl | 3 | 20000 | 1000 |

| 3000 | Mounika | Vijay | admin | 95763.83 | 9766343343 | mv@gmail.com | cl | 3 | 30000 | NULL |

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

5 rows in set (0.00 sec)

mysql> show tables;

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

| Tables_in_8647batch |

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

| department |

| emp_dept_fourth |

```
| emp_dept_third        |

| employee              |

| employee_department_view |

| employee_dept_view    |

| employee_read_only    |

| employee_view         |

| product               |

| project               |

| student               |

| studentbackup         |

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

12 rows in set (0.00 sec)

mysql> select *from student; select *from studentbackup;

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

| sid  | sname       | marks | resume    |

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

| 1000 | harishkumar | 78.95 | NULL      |

| 2000 | SwapnaKumari | 90.34 | NULL     |

| 3000 | komal       | 58.45 | NULL      |

| 5000 | isha        | 28.76 | NULL      |

| 6000 | nisha       | NULL  | NULL      |

| 7000 | isha        | 56.98 | available |

| 8000 | tanushree   | 28.76 | available |

| 9000 | rekha       | 56.98 | available |

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

8 rows in set (0.00 sec)


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

| sid  | sname       | marks | resume |

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

```
| 1000 | harishkumar  | 78.95 | NULL   |
| 2000 | SwapnaKumari | 90.34 | NULL   |
| 3000 | komal        | 58.45 | NULL   |
| 5000 | isha         | 28.76 | NULL   |
| 6000 | nisha        | NULL  | NULL   |
+------+--------------+-------+--------+
5 rows in set (0.01 sec)
```

mysql> select *from student union select *from studentbackup;

```
+------+--------------+-------+-----------+
| sid  | sname        | marks | resume    |
+------+--------------+-------+-----------+
| 1000 | harishkumar  | 78.95 | NULL      |
| 2000 | SwapnaKumari | 90.34 | NULL      |
| 3000 | komal        | 58.45 | NULL      |
| 5000 | isha         | 28.76 | NULL      |
| 6000 | nisha        | NULL  | NULL      |
| 7000 | isha         | 56.98 | available |
| 8000 | tanushree    | 28.76 | available |
| 9000 | rekha        | 56.98 | available |
+------+--------------+-------+-----------+
8 rows in set (0.00 sec)
```

mysql> select *from student union all select *from studentbackup;

```
+------+--------------+-------+-----------+
| sid  | sname        | marks | resume    |
+------+--------------+-------+-----------+
| 1000 | harishkumar  | 78.95 | NULL      |
| 2000 | SwapnaKumari | 90.34 | NULL      |
| 3000 | komal        | 58.45 | NULL      |
| 5000 | isha         | 28.76 | NULL      |
```

```
| 6000 | nisha       |  NULL | NULL      |
| 7000 | isha        | 56.98 | available |
| 8000 | tanushree   | 28.76 | available |
| 9000 | rekha       | 56.98 | available |
| 1000 | harishkumar | 78.95 | NULL      |
| 2000 | SwapnaKumari | 90.34 | NULL     |
| 3000 | komal       | 58.45 | NULL      |
| 5000 | isha        | 28.76 | NULL      |
| 6000 | nisha       |  NULL | NULL      |
+------+-------------+-------+-----------+
13 rows in set (0.00 sec)


mysql> select sname as name, marks, resume from student union all select sname,marks from studentbackup;

ERROR 1222 (21000): The used SELECT statements have a different number of columns

mysql> select sname as name, marks, resume from student union all select sname,marks,null from studentbackup;

+--------------+-------+-----------+
| name         | marks | resume    |
+--------------+-------+-----------+
| harishkumar  | 78.95 | NULL      |
| SwapnaKumari | 90.34 | NULL      |
| komal        | 58.45 | NULL      |
| isha         | 28.76 | NULL      |
| nisha        |  NULL | NULL      |
| isha         | 56.98 | available |
| tanushree    | 28.76 | available |
| rekha        | 56.98 | available |
| harishkumar  | 78.95 | NULL      |
| SwapnaKumari | 90.34 | NULL      |
| komal        | 58.45 | NULL      |
| isha         | 28.76 | NULL      |
```

```
| nisha        | NULL | NULL     |
+--------------+-------+-----------+
```
13 rows in set (0.00 sec)

mysql> select sname as name, marks, resume from student union all select sname,marks as studentmarks,null from studentbackup;

```
+--------------+-------+-----------+
| name         | marks | resume    |
+--------------+-------+-----------+
| harishkumar  | 78.95 | NULL      |
| SwapnaKumari | 90.34 | NULL      |
| komal        | 58.45 | NULL      |
| isha         | 28.76 | NULL      |
| nisha        | NULL  | NULL      |
| isha         | 56.98 | available |
| tanushree    | 28.76 | available |
| rekha        | 56.98 | available |
| harishkumar  | 78.95 | NULL      |
| SwapnaKumari | 90.34 | NULL      |
| komal        | 58.45 | NULL      |
| isha         | 28.76 | NULL      |
| nisha        | NULL  | NULL      |
+--------------+-------+-----------+
```
13 rows in set (0.00 sec)

mysql> select sname as name, marks as studentmarks, resume from student union all select sname,marks as studentmarks,null from studentbackup;

```
+--------------+--------------+-----------+
| name         | studentmarks | resume    |
+--------------+--------------+-----------+
| harishkumar  |        78.95 | NULL      |
| SwapnaKumari |        90.34 | NULL      |
```

```
| komal        |        58.45 | NULL     |

| isha         |        28.76 | NULL     |

| nisha        |         NULL | NULL     |

| isha         |        56.98 | available |

| tanushree    |        28.76 | available |

| rekha        |        56.98 | available |

| harishkumar  |        78.95 | NULL     |

| SwapnaKumari |        90.34 | NULL     |

| komal        |        58.45 | NULL     |

| isha         |        28.76 | NULL     |

| nisha        |         NULL | NULL     |

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

13 rows in set (0.00 sec)

mysql> select *from employee;select *from student;

```
+-------+------------+--------------+---------------+----------+-------------+------------------+-----------+--------+--------+------------+
| empid | first_name | last_name    | design        | salary   | mobilenumber | email_id         | leavetype | deptId | projId | manager_id |
+-------+------------+--------------+---------------+----------+-------------+------------------+-----------+--------+--------+------------+
| 1000  | Sunil      | Singh        | Testing       | 81853.98 | 9786202345  | sunil23@gmail.com | pl        | 2      | 10000  | 1003       |
| 1001  | tanush     | kumar        | Admin         | 51653.98 | 9886202355  | tanush@gmail.com  | cl        | 3      | 10000  | 1000       |
| 1002  | somu       | shekar       | SalesManager  | 98763.83 | 9875323432  | somu@gmail.com    | pl        | 3      | 20000  | 1000       |
| 1003  | manu       | hari         | SalesManager  | 98763.83 | 9875323432  | manu@gmail.com    | pl        | 2      | 20000  | 1002       |
| 1004  | Kiran      | shelke       | QualityManager | 97654.87 | 8763234232  | kr@gmail.com      | pl        | NULL   | NULL   | 1003       |
| 2000  | Apoorva    | Sajjan       | hr            | 99763.00 | 8766343343  | ap@gmail.com      | pl        | 4      | 30000  | NULL       |
```

| 3000 | Mounika | Vijay | admin | 95763.83 | 9766343343 | mv@gmail.com | cl | 3 | 30000 | NULL |

| 3001 | kavitha | ashwin | Testing | 98763.65 | NULL | NULL | NULL | NULL | NULL | NULL |

| 3002 | Menaka | harshitha | developement | 90876.87 | 6538337377 | hr@gmail.com | NULL | NULL | NULL | NULL |

| 5000 | Umesh | Biradar | Admin | 98763.67 | 9837738484 | umesh@gmail.com | cl | 4 | 10000 | NULL |

| 5001 | pavithra | Ravichandiran | developer | NULL | 8790393343 | pavi@gmail.com | NULL | NULL | NULL | NULL |

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

11 rows in set (0.00 sec)

+------+-------------+-------+-----------+
| sid | sname | marks | resume |
+------+-------------+-------+-----------+
1000	harishkumar	78.95	NULL
2000	SwapnaKumari	90.34	NULL
3000	komal	58.45	NULL
5000	isha	28.76	NULL
6000	nisha	NULL	NULL
7000	isha	56.98	available
8000	tanushree	28.76	available
9000	rekha	56.98	available
+------+-------------+-------+-----------+

8 rows in set (0.00 sec)

mysql> select first_name as empname, salary as empsalary,null as studname,0 as studmarks from employee union all select null,0,sname,marks from student;

+----------+-----------+-------------+-------------------+
| empname | empsalary | studname | studmarks |
+----------+-----------+-------------+-------------------+

```
| Sunil   | 81853.98 | NULL        |              0 |
| tanush  | 51653.98 | NULL        |              0 |
| somu    | 98763.83 | NULL        |              0 |
| manu    | 98763.83 | NULL        |              0 |
| Kiran   | 97654.87 | NULL        |              0 |
| Apoorva | 99763.00 | NULL        |              0 |
| Mounika | 95763.83 | NULL        |              0 |
| kavitha | 98763.65 | NULL        |              0 |
| Menaka  | 90876.87 | NULL        |              0 |
| Umesh   | 98763.67 | NULL        |              0 |
| pavithra |    NULL | NULL        |              0 |
| NULL    |     0.00 | harishkumar  | 78.94999694824219 |
| NULL    |     0.00 | SwapnaKumari | 90.33999633789062 |
| NULL    |     0.00 | komal        | 58.45000076293945 |
| NULL    |     0.00 | isha         | 28.760000228881836 |
| NULL    |     0.00 | nisha        |           NULL |
| NULL    |     0.00 | isha         | 56.97999954223633 |
| NULL    |     0.00 | tanushree    | 28.760000228881836 |
| NULL    |     0.00 | rekha        | 56.97999954223633 |
+----------+-----------+-------------+-------------------+
19 rows in set (0.00 sec)


mysql> select sname,marks from student union all select marks, sname from studentbackup;
+-------------------+-------------------+
| sname             | marks             |
+-------------------+-------------------+
| harishkumar       | 78.94999694824219 |
| SwapnaKumari      | 90.33999633789062 |
| komal             | 58.45000076293945 |
| isha              | 28.760000228881836 |
| nisha             | NULL              |
```

| isha | 56.97999954223633 |

| tanushree | 28.760000228881836 |

| rekha | 56.97999954223633 |

| 78.94999694824219 | harishkumar |

| 90.33999633789062 | SwapnaKumari |

| 58.45000076293945 | komal |

| 28.760000228881836 | isha |

| NULL | nisha |

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

13 rows in set (0.00 sec)

mysql> select sname,marks from student order by sname union all select sname,marks from studentbackup;

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 'union all select sname,marks from studentbackup' at line 1

mysql> select sname,marks from student union all select sname,marks from studentbackup order by sname;

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

| sname | marks |

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

| harishkumar | 78.95 |

| harishkumar | 78.95 |

| isha | 28.76 |

| isha | 56.98 |

| isha | 28.76 |

| komal | 58.45 |

| komal | 58.45 |

| nisha | NULL |

| nisha | NULL |

| rekha | 56.98 |

| SwapnaKumari | 90.34 |

| SwapnaKumari | 90.34 |

| tanushree | 28.76 |

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

13 rows in set (0.00 sec)

mysql> select sum(salary) as total from employee group by deptid union all select sum(marks) from student;

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

| total |

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

| 287295.39 |

| 180617.81 |

| 246181.64 |

| 198526.66999999998 |

| 399.2199935913086 |

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

5 rows in set (0.00 sec)

mysql> select deptid,sum(salary) as total from employee group by deptid union all select 0,sum(marks) from student;

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

| deptid | total |

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

| NULL | 287295.39 |

| 2 | 180617.81 |

| 3 | 246181.64 |

| 4 | 198526.66999999998 |

| 0 | 399.2199935913086 |

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

5 rows in set (0.00 sec)

mysql> select sname,marks from student union all select sname,marks from studentbackup order by sname;

```
+--------------+-------+
| sname        | marks |
+--------------+-------+
| harishkumar  | 78.95 |
| harishkumar  | 78.95 |
| isha         | 28.76 |
| isha         | 56.98 |
| isha         | 28.76 |
| komal        | 58.45 |
| komal        | 58.45 |
| nisha        |  NULL |
| nisha        |  NULL |
| rekha        | 56.98 |
| SwapnaKumari | 90.34 |
| SwapnaKumari | 90.34 |
| tanushree    | 28.76 |
+--------------+-------+
```

13 rows in set (0.00 sec)

mysql> select sname,marks from student union select sname,marks from studentbackup order by sname;

```
+--------------+-------+
| sname        | marks |
+--------------+-------+
| harishkumar  | 78.95 |
| isha         | 28.76 |
| isha         | 56.98 |
| komal        | 58.45 |
| nisha        |  NULL |
| rekha        | 56.98 |
```

| SwapnaKumari | 90.34 |

| tanushree | 28.76 |

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

8 rows in set (0.00 sec)

mysql> select sname,marks from student union all select sname,marks from studentbackup order by sname;

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

| sname | marks |

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

| harishkumar | 78.95 |

| harishkumar | 78.95 |

| isha | 28.76 |

| isha | 56.98 |

| isha | 28.76 |

| komal | 58.45 |

| komal | 58.45 |

| nisha | NULL |

| nisha | NULL |

| rekha | 56.98 |

| SwapnaKumari | 90.34 |

| SwapnaKumari | 90.34 |

| tanushree | 28.76 |

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

13 rows in set (0.00 sec)

mysql> select 'student' as Type, sname,marks from student union all select 'studentbackup', sname,marks from studentbackup order by sname;

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

| Type | sname | marks |

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

| student | harishkumar | 78.95 |

```
| studentbackup | harishkumar  | 78.95 |
| student       | isha         | 28.76 |
| student       | isha         | 56.98 |
| studentbackup | isha         | 28.76 |
| student       | komal        | 58.45 |
| studentbackup | komal        | 58.45 |
| student       | nisha        | NULL |
| studentbackup | nisha        | NULL |
| student       | rekha        | 56.98 |
| student       | SwapnaKumari | 90.34 |
| studentbackup | SwapnaKumari | 90.34 |
| student       | tanushree    | 28.76 |
+--------------+--------------+-------+
13 rows in set (0.00 sec)


mysql> select *from student;
+------+-------------+-------+-----------+
| sid  | sname       | marks | resume    |
+------+-------------+-------+-----------+
| 1000 | harishkumar  | 78.95 | NULL     |
| 2000 | SwapnaKumari | 90.34 | NULL     |
| 3000 | komal        | 58.45 | NULL     |
| 5000 | isha         | 28.76 | NULL     |
| 6000 | nisha        | NULL | NULL     |
| 7000 | isha         | 56.98 | available |
| 8000 | tanushree    | 28.76 | available |
| 9000 | rekha        | 56.98 | available |
+------+-------------+-------+-----------+
8 rows in set (0.00 sec)


mysql> show table;s
```

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

```
    -> ^X^C
mysql>
mysql> show tables;
+-------------------------+
| Tables_in_8647batch     |
+-------------------------+
| department              |
| emp_dept_fourth         |
| emp_dept_third          |
| employee                |
| employee_department_view |
| employee_dept_view      |
| employee_read_only      |
| employee_view           |
| product                 |
| project                 |
| student                 |
| studentbackup           |
+-------------------------+
12 rows in set (0.05 sec)


mysql> desc student;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| sid    | int         | NO   | PRI | NULL    |       |
| sname  | varchar(30) | NO   |     | NULL    |       |
| marks  | float       | YES  |     | NULL    |       |
| resume | varchar(50) | YES  |     | NULL    |       |
```

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

4 rows in set (0.09 sec)

mysql> des product;

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 'des product' at line 1

mysql> desc product;

```
+--------------+------------+------+-----+---------+-------+
| Field        | Type       | Null | Key | Default | Extra |
+--------------+------------+------+-----+---------+-------+
| prodid       | int        | NO   | PRI | NULL    |       |
| name         | varchar(20)| NO   | PRI | NULL    |       |
| Manufacturer | varchar(30)| YES  |     | NULL    |       |
+--------------+------------+------+-----+---------+-------+
```

3 rows in set (0.06 sec)

mysql> create table sample(sname varchar(30),sid int);
Query OK, 0 rows affected (0.50 sec)

mysql> show index from sample;
Empty set (0.00 sec)

mysql> show index from product;

```
+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+-----------+---------+---------------+---------+------------+
| Table   | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+-----------+---------+---------------+---------+------------+
| product |          0 | PRIMARY  |            1 | name        | A         |           0 |     NULL |   NULL |      | BTREE     |         |               | YES     | NULL       |
| product |          0 | PRIMARY  |            2 | prodid      | A         |           0 |     NULL |   NULL |      | BTREE     |         |               | YES     | NULL       |
```

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

2 rows in set (0.10 sec)

mysql> desc product;

```
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| prodid       | int         | NO   | PRI | NULL    |       |
| name         | varchar(20) | NO   | PRI | NULL    |       |
| Manufacturer | varchar(30) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
```

3 rows in set (0.00 sec)

mysql> alter table sample add constraint primary key(sid);

Query OK, 0 rows affected (0.95 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from sample;

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

| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |

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

| sample | 0 | PRIMARY | 1 | sid | A | 0 | NULL | NULL | | BTREE | | | YES | NULL |

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

1 row in set (0.07 sec)

mysql> select *from student;

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

```
| sid  | sname       | marks | resume   |

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

| 1000 | harishkumar | 78.95 | NULL     |

| 2000 | SwapnaKumari | 90.34 | NULL     |

| 3000 | komal       | 58.45 | NULL     |

| 5000 | isha        | 28.76 | NULL     |

| 6000 | nisha       | NULL  | NULL     |

| 7000 | isha        | 56.98 | available |

| 8000 | tanushree   | 28.76 | available |

| 9000 | rekha       | 56.98 | available |

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

8 rows in set (0.00 sec)


mysql> show index from student;

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

| Table   | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |

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

| student |        0 | PRIMARY |        1 | sid        | A       |        8 |   NULL | NULL |    | BTREE  |    |        | YES   | NULL    |

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

1 row in set (0.07 sec)


mysql> create index student_sname_index on student(sname);

Query OK, 0 rows affected (0.50 sec)

Records: 0  Duplicates: 0  Warnings: 0


mysql> show index from student;

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

| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |

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

| student | 0 | PRIMARY | 1 | sid | A | 8 | NULL | NULL | | BTREE | | | YES | NULL |

| student | 1 | student_sname_index | 1 | sname | A | 7 | NULL | NULL | | BTREE | | | YES | NULL |

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

2 rows in set (0.33 sec)

mysql> drop index student_sname_index;

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> alter table student drop index student_sname_index;

Query OK, 0 rows affected (0.25 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from student;

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

| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |

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

| student | 0 | PRIMARY | 1 | sid | A | 8 | NULL | NULL | | BTREE | | | YES | NULL |

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

1 row in set (0.00 sec)

mysql> alter table student drop index primary;

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 'primary' at line 1

mysql> alter table student drop index PRIMARY;

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 'PRIMARY' at line 1

mysql> alter table student drop contraint primary;

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 'primary' at line 1

mysql> alter table student drop contraint primary key;

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 'primary key' at line 1

mysql> alter table student drop constraint Primary;

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 'Primary' at line 1

mysql> alter table student drop constraint PRIMARY;

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 'PRIMARY' at line 1

mysql> desc sample;

```
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| sname | varchar(30) | YES  |     | NULL    |       |
| sid   | int         | NO   | PRI | NULL    |       |
+-------+-------------+------+-----+---------+-------+
```

2 rows in set (0.00 sec)

mysql> alter table sample drop constraint PRIMARY;

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 'PRIMARY' at line 1

mysql> alter table sample drop constraint PRIMARY KEY;

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 'PRIMARY KEY' at line 1

mysql> create table emailTable(to varchar(30),sender varchar(40),subject varchar(150),body varchar(500));

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 'to varchar(30),sender varchar(40),subject varchar(150),body varchar(500))' at line 1

mysql> create table emailTable(receiver varchar(30),sender varchar(40),subject varchar(150),body varchar(500));

Query OK, 0 rows affected (0.83 sec)

mysql>