

SQL Queries

```
mysql> USE Employee;
Database changed
mysql> CREATE TABLE emp(id INT PRIMARY KEY AUTO_INCREMENT,name VARCHAR(30) NOT NULL,age INT, salary INT);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server
T, salary INT) at line 1
mysql> CREATE TABLE emp(id INT PRIMARY KEY AUTO_INCREMENT,name VARCHAR(30) NOT NULL,age INT, salary INT);
Query OK, 0 rows affected (0.06 sec)

mysql> describe emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | NO   | PRI | NULL    | auto_increment |
| name  | varchar(30) | NO   |     | NULL    |               |
| age   | int  | YES  |     | NULL    |               |
| salary | int  | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into emp values("Sanket",20,30000);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> insert into emp values(1,"Sanket",20,30000);
Query OK, 1 row affected (0.04 sec)

mysql> select * from emp;
+-----+-----+-----+-----+
| id | name | age | salary |
+-----+-----+-----+-----+
| 1 | Sanket | 20 | 30000 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> insert into emp values("Raj",24,40000);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> insert into emp values(2,"Raj",24,40000);
Query OK, 1 row affected (0.04 sec)

mysql> insert into emp values(3,"Rahul",30,80000);
Query OK, 1 row affected (0.04 sec)

mysql> insert into emp values(4,"Mayank",29,88000);
Query OK, 1 row affected (0.04 sec)

mysql> insert into emp values(5,"Rakesh",45,38000);
Query OK, 1 row affected (0.04 sec)

mysql> insert into emp values(6,"Dev",39,70000);
Query OK, 1 row affected (0.04 sec)

mysql> insert into emp values(7,"Sahil",20,60000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into emp values(8,"Om",25,60000);
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into emp values(9,"Krishna",24,60000);
Query OK, 1 row affected (0.04 sec)

mysql> insert into emp values(10,"Parth",24,90000);
Query OK, 1 row affected (0.04 sec)

mysql> select * from emp;
+-----+-----+-----+-----+
| id | name | age | salary |
+-----+-----+-----+-----+
| 1 | Sanket | 20 | 30000 |
| 2 | Raj | 24 | 40000 |
| 3 | Rahul | 30 | 80000 |
| 4 | Mayank | 29 | 88000 |
| 5 | Rakesh | 45 | 38000 |
| 6 | Dev | 39 | 70000 |
| 7 | Sahil | 20 | 60000 |
| 8 | Om | 25 | 60000 |
| 9 | Krishna | 24 | 60000 |
| 10 | Parth | 24 | 90000 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> UPDTAE emp SET salary=35000 where id=2;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to y
1
mysql> UPDATE emp SET salary=35000 where id=2;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from emp;
+-----+-----+-----+-----+
| id | name | age | salary |
+-----+-----+-----+-----+
| 1 | Sanket | 20 | 30000 |
| 2 | Raj | 24 | 35000 |
| 3 | Rahul | 30 | 80000 |
| 4 | Mayank | 29 | 88000 |
| 5 | Rakesh | 45 | 38000 |
| 6 | Dev | 39 | 70000 |
| 7 | Sahil | 20 | 60000 |
| 8 | Om | 25 | 60000 |
| 9 | Krishna | 24 | 60000 |
| 10 | Parth | 24 | 90000 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> DELETE FROM emp WHERE id=2;
Query OK, 1 row affected (0.00 sec)

mysql> select id,name from emp where salary>27000;
```

```

+-----+
| 1 | Sanket |
| 3 | Rahul  |
| 4 | Mayank  |
| 5 | Rakesh  |
| 6 | Dev     |
| 7 | Sahil   |
| 8 | Om      |
| 9 | Krishna |
|10 | Parth   |
+-----+
9 rows in set (0.00 sec)

mysql> select * from emp where salary<27000;
Empty set (0.00 sec)

mysql> select * from emp where salary>27000 AND salary<40000;
+-----+
| id | name   | age | salary |
+-----+
| 1  | Sanket | 20  | 30000  |
| 5  | Rakesh | 45  | 38000  |
+-----+
2 rows in set (0.00 sec)

mysql> select * from emp where salary BETWEEN 27000 AND 40000;
+-----+
| id | name   | age | salary |
+-----+
| 1  | Sanket | 20  | 30000  |
| 5  | Rakesh | 45  | 38000  |
+-----+
2 rows in set (0.00 sec)

mysql> select * from emp LIMIT 3;
+-----+
| id | name   | age | salary |
+-----+
| 1  | Sanket | 20  | 30000  |
| 3  | Rahul  | 30  | 80000  |
| 4  | Mayank | 29  | 88000  |
+-----+
3 rows in set (0.00 sec)

mysql> select * from emp where age=35 LIMIT 3;
Empty set (0.00 sec)

mysql> select * from emp where age=26 AND salary<35000;
Empty set (0.00 sec)

mysql> select * from emp where age=26 OR salary<35000;
+-----+
| id | name   | age | salary |
+-----+
| 1  | Sanket | 20  | 30000  |
+-----+

```

```

Empty set (0.00 sec)

mysql> select * from emp where age=26 OR salary<35000;
+-----+
| id | name   | age | salary |
+-----+
| 1  | Sanket | 20  | 30000  |
+-----+
1 row in set (0.00 sec)

mysql> select * from emp where age!=26;
+-----+
| id | name   | age | salary |
+-----+
| 1  | Sanket | 20  | 30000  |
| 3  | Rahul  | 30  | 80000  |
| 4  | Mayank | 29  | 88000  |
| 5  | Rakesh | 45  | 38000  |
| 6  | Dev     | 39  | 70000  |
| 7  | Sahil   | 20  | 60000  |
| 8  | Om      | 25  | 60000  |
| 9  | Krishna | 24  | 60000  |
|10  | Parth   | 24  | 90000  |
+-----+
9 rows in set (0.01 sec)

mysql> alter table emp ADD COLUMN city VARCHAR(30);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from emp SET city= Nashik where salary<30000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version [4.0.1]
mysql> select * from emp SET city= "Nashik" where salary<30000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version [4.0.1]
mysql> UPDATE emp SET city= "Nashik" where salary<30000;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE emp SET city= "Pune" where salary BETWEEN 30000 AND 54000;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysql> UPDATE emp SET city= "MUMBAI" where salary>54000;
Query OK, 7 rows affected (0.05 sec)
Rows matched: 7 Changed: 7 Warnings: 0

mysql> select * from emp where city="Pune" AND city="Nashik";
Empty set (0.00 sec)

mysql> select * from emp where city="Pune" or city="Nashik";
+-----+
| id | name   | age | salary | city |
+-----+
| 1  | Sanket | 20  | 30000  | Pune |
| 5  | Rakesh | 45  | 38000  | Pune |
+-----+

```

```
mysql> select * from emp where city="Pune" or city="Nashik";
```

| id | name | age | salary | city |
|----|--------|-----|--------|------|
| 1 | Sanket | 20 | 30000 | Pune |
| 5 | Rakesh | 45 | 38000 | Pune |

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



```
mysql> select * from emp where city!="Pune" or city!="Nashik";
```

| id | name | age | salary | city |
|----|---------|-----|--------|--------|
| 1 | Sanket | 20 | 30000 | Pune |
| 3 | Rahul | 30 | 80000 | MUMBAI |
| 4 | Mayank | 29 | 88000 | MUMBAI |
| 5 | Rakesh | 45 | 38000 | Pune |
| 6 | Dev | 39 | 70000 | MUMBAI |
| 7 | Sahil | 20 | 60000 | MUMBAI |
| 8 | Om | 25 | 60000 | MUMBAI |
| 9 | Krishna | 24 | 60000 | MUMBAI |
| 10 | Parth | 24 | 90000 | MUMBAI |

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



```
mysql> select * from emp where city!="Pune" AND city!="Nashik";
```

| id | name | age | salary | city |
|----|---------|-----|--------|--------|
| 3 | Rahul | 30 | 80000 | MUMBAI |
| 4 | Mayank | 29 | 88000 | MUMBAI |
| 6 | Dev | 39 | 70000 | MUMBAI |
| 7 | Sahil | 20 | 60000 | MUMBAI |
| 8 | Om | 25 | 60000 | MUMBAI |
| 9 | Krishna | 24 | 60000 | MUMBAI |
| 10 | Parth | 24 | 90000 | MUMBAI |

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

```
mysql> select * from emp ORDER BY salary asc;
```

| id | name | age | salary | city |
|----|---------|-----|--------|--------|
| 1 | Sanket | 20 | 30000 | Pune |
| 5 | Rakesh | 45 | 38000 | Pune |
| 7 | Sahil | 20 | 60000 | MUMBAI |
| 8 | Om | 25 | 60000 | MUMBAI |
| 9 | Krishna | 24 | 60000 | MUMBAI |
| 6 | Dev | 39 | 70000 | MUMBAI |
| 3 | Rahul | 30 | 80000 | MUMBAI |
| 4 | Mayank | 29 | 88000 | MUMBAI |
| 10 | Parth | 24 | 90000 | MUMBAI |

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



```
mysql> select * from emp ORDER BY salary dsc;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
```

```
mysql> select * from emp ORDER BY salary desc;
```

| id | name | age | salary | city |
|----|---------|-----|--------|--------|
| 10 | Parth | 24 | 90000 | MUMBAI |
| 4 | Mayank | 29 | 88000 | MUMBAI |
| 3 | Rahul | 30 | 80000 | MUMBAI |
| 6 | Dev | 39 | 70000 | MUMBAI |
| 7 | Sahil | 20 | 60000 | MUMBAI |
| 8 | Om | 25 | 60000 | MUMBAI |
| 9 | Krishna | 24 | 60000 | MUMBAI |
| 5 | Rakesh | 45 | 38000 | Pune |
| 1 | Sanket | 20 | 30000 | Pune |

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



```
mysql> select * from emp where name LIKE 'R%';
```

| id | name | age | salary | city |
|----|--------|-----|--------|--------|
| 3 | Rahul | 30 | 80000 | MUMBAI |
| 5 | Rakesh | 45 | 38000 | Pune |

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



```
mysql> select * from emp where name LIKE 'M%';
```

| id | name | age | salary | city |
|----|--------|-----|--------|--------|
| 4 | Mayank | 29 | 88000 | MUMBAI |

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



```
mysql> select * from emp where name LIKE '%am%';
```

```
Empty set (0.00 sec)
```



```
mysql> select * from emp where name LIKE '_a%';
```

```

| 3 | Rahul | 30 | 80000 | MUMBAI |
| 4 | Mayank | 29 | 88000 | MUMBAI |
| 5 | Rakesh | 45 | 38000 | Pune |
| 7 | Sahil | 20 | 60000 | MUMBAI |
| 10 | Parth | 24 | 90000 | MUMBAI |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from emp where name LIKE 'A%' LENGTH(name)>=4;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
mysql> select * from emp where name LIKE 'A%' AND LENGTH(name)>=4;
Empty set (0.01 sec)

mysql> select * from emp where name LIKE 'A%m';
Empty set (0.00 sec)

mysql> CREATE INDEX idx_city ON emp(city);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> SELECT city, COUNT(*) AS total_persons
-> FROM emp
-> GROUP BY city;
+-----+-----+
| city | total_persons |
+-----+-----+
| MUMBAI | 7 |
| Pune | 2 |
+-----+-----+
2 rows in set (0.04 sec)

mysql> CREATE VIEW pune_rich (id, name, salary) AS
-> SELECT id, name, salary
-> FROM emp
-> WHERE city = 'Pune' AND salary > 40000;
Query OK, 0 rows affected (0.05 sec)

mysql> SELECT * FROM pune_rich;
Empty set (0.00 sec)

mysql> SELECT
-> COUNT(*) AS total_persons,
-> MAX(salary) AS max_salary,
-> MIN(salary) AS min_salary,
-> SUM(salary) AS total_salary,
-> AVG(salary) AS avg_salary
-> FROM emp;
+-----+-----+-----+-----+-----+
| total_persons | max_salary | min_salary | total_salary | avg_salary |
+-----+-----+-----+-----+-----+
| 9 | 90000 | 30000 | 576000 | 64000.0000 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> 

```