

Advance SQL Queries


```
In [ ]: ► Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.34 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| college |
| information_schema |
| mysql |
| performance_schema |
| pre_sep |
| pregrad_april |
| pregrad_june |
| pregrad_march |
| pregrad_may |
| sakila |
| sys |
| tb_batch_2 |
| tb_batch_5 |
| tb_batch_6 |
| tb_batch_7 |
| tb_batch_8 |
| tb_batch_9 |
| techify_innovation |
| training_basket |
| world |
+-----+
20 rows in set (0.01 sec)

mysql> USE pre_sep;
Database changed
mysql> SHOW TABLES;
```

```
+-----+
| Tables_in_pre_sep |
+-----+
| pregrad            |
| student            |
+-----+
```

2 rows in set (0.01 sec)

```
mysql> SELECT * FROM student;
```

```
+-----+-----+-----+-----+-----+-----+
| id | name  | age | city   | marks | course |
+-----+-----+-----+-----+-----+-----+
| 1  | Sourav | 26 | Noida  | 70    | DS     |
| 2  | Rahul  | 24 | Noida  | 80    | AI     |
| 3  | Ajay   | 21 | Pune   | 75    | DA     |
| 4  | Neha   | 22 | Gurgaon | 78    | DS     |
| 5  | Harry  | 23 | Pune   | 90    | AI     |
| 6  | Shivi  | 24 | Mumbai | 95    | DS     |
| 7  | Vansh  | 25 | Noida  | 92    | AI     |
| 8  | Sam    | 27 | Pune   | 60    | ML     |
+-----+-----+-----+-----+-----+-----+
```

8 rows in set (0.01 sec)

```
mysql> SELECT * FROM student WHERE city = 'Noida';
```

```
+-----+-----+-----+-----+-----+-----+
| id | name  | age | city   | marks | course |
+-----+-----+-----+-----+-----+-----+
| 1  | Sourav | 26 | Noida  | 70    | DS     |
| 2  | Rahul  | 24 | Noida  | 80    | AI     |
| 7  | Vansh  | 25 | Noida  | 92    | AI     |
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> UPDATE student SET city = 'Mumbai' WHERE id = 8;
```

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM student;
```

```
+-----+-----+-----+-----+-----+-----+
| id | name  | age | city   | marks | course |
+-----+-----+-----+-----+-----+-----+
| 1  | Sourav | 26 | Noida  | 70    | DS     |
| 2  | Rahul  | 24 | Noida  | 80    | AI     |
+-----+-----+-----+-----+-----+-----+
```

3	Ajay	21	Pune	75	DA
4	Neha	22	Gurgaon	78	DS
5	Harry	23	Pune	90	AI
6	Shivi	24	Mumbai	95	DS
7	Vansh	25	Noida	92	AI
8	Sam	27	Mumbai	60	ML

8 rows in set (0.00 sec)

```
mysql> ALTER TABLE student ADD COLUMN gender VARCHAR(10);
```

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM student;
```

id	name	age	city	marks	course	gender
1	Sourav	26	Noida	70	DS	NULL
2	Rahul	24	Noida	80	AI	NULL
3	Ajay	21	Pune	75	DA	NULL
4	Neha	22	Gurgaon	78	DS	NULL
5	Harry	23	Pune	90	AI	NULL
6	Shivi	24	Mumbai	95	DS	NULL
7	Vansh	25	Noida	92	AI	NULL
8	Sam	27	Mumbai	60	ML	NULL

8 rows in set (0.00 sec)

```
mysql> UPDATE student SET gender = 'Male' WHERE id NOT IN (4, 6);
```

Query OK, 6 rows affected (0.01 sec)

Rows matched: 6 Changed: 6 Warnings: 0

```
mysql> SELECT * FROM student;
```

id	name	age	city	marks	course	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	AI	Male
3	Ajay	21	Pune	75	DA	Male
4	Neha	22	Gurgaon	78	DS	NULL
5	Harry	23	Pune	90	AI	Male
6	Shivi	24	Mumbai	95	DS	NULL
7	Vansh	25	Noida	92	AI	Male

8	Sam	27	Mumbai	60	ML	Male
---	-----	----	--------	----	----	------

8 rows in set (0.00 sec)

```
mysql> UPDATE student SET gender = 'Female' WHERE id IN (4, 6);
```

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

```
mysql> SELECT * FROM student;
```

id	name	age	city	marks	course	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	AI	Male
3	Ajay	21	Pune	75	DA	Male
4	Neha	22	Gurgaon	78	DS	Female
5	Harry	23	Pune	90	AI	Male
6	Shivi	24	Mumbai	95	DS	Female
7	Vansh	25	Noida	92	AI	Male
8	Sam	27	Mumbai	60	ML	Male

8 rows in set (0.00 sec)

```
mysql> SHOW TABLES;
```

Tables_in_pre_sep
pregrad
student

2 rows in set (0.01 sec)

```
mysql> ALTER TABLE student RENAME TO emp;
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> SHOW TABLES;
```

Tables_in_pre_sep
emp
pregrad

2 rows in set (0.01 sec)

```
mysql> SELECT * FROM student;
ERROR 1146 (42S02): Table 'pre_sep.student' doesn't exist
mysql> SELECT * FROM emp;
```

id	name	age	city	marks	course	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	AI	Male
3	Ajay	21	Pune	75	DA	Male
4	Neha	22	Gurgaon	78	DS	Female
5	Harry	23	Pune	90	AI	Male
6	Shivi	24	Mumbai	95	DS	Female
7	Vansh	25	Noida	92	AI	Male
8	Sam	27	Mumbai	60	ML	Male

8 rows in set (0.01 sec)

```
mysql> ALTER TABLE emp CHANGE COLUMN marks rating INT UNIQUE;
Query OK, 0 rows affected, 1 warning (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
mysql> SELECT * FROM emp;
```

id	name	age	city	rating	course	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	AI	Male
3	Ajay	21	Pune	75	DA	Male
4	Neha	22	Gurgaon	78	DS	Female
5	Harry	23	Pune	90	AI	Male
6	Shivi	24	Mumbai	95	DS	Female
7	Vansh	25	Noida	92	AI	Male
8	Sam	27	Mumbai	60	ML	Male

8 rows in set (0.00 sec)

```
mysql> ALTER TABLE emp CHANGE COLUMN course domain VARCHAR(10);
Query OK, 8 rows affected (0.07 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM emp;
```

id	name	age	city	rating	course	gender
----	------	-----	------	--------	--------	--------

id	name	age	city	rating	domain	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	AI	Male
3	Ajay	21	Pune	75	DA	Male
4	Neha	22	Gurgaon	78	DS	Female
5	Harry	23	Pune	90	AI	Male
6	Shivi	24	Mumbai	95	DS	Female
7	Vansh	25	Noida	92	AI	Male
8	Sam	27	Mumbai	60	ML	Male

8 rows in set (0.00 sec)

```
mysql> ALTER TABLE emp MODIFY rating BIGINT;;
```

Query OK, 8 rows affected (0.06 sec)

Records: 8 Duplicates: 0 Warnings: 0

ERROR:

No query specified

```
mysql> ALTER TABLE emp MODIFY rating BIGINT;
```

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM emp;
```

id	name	age	city	rating	domain	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	AI	Male
3	Ajay	21	Pune	75	DA	Male
4	Neha	22	Gurgaon	78	DS	Female
5	Harry	23	Pune	90	AI	Male
6	Shivi	24	Mumbai	95	DS	Female
7	Vansh	25	Noida	92	AI	Male
8	Sam	27	Mumbai	60	ML	Male

8 rows in set (0.00 sec)

```
mysql> SELECT * FROM pregrad;
```

id	name	age	city	marks	course
----	------	-----	------	-------	--------

1	Sourav	26	Noida	70	DS
2	Rahul	24	Noida	80	AI
3	Ajay	21	Pune	75	DA
4	Neha	22	Gurgaon	78	DS
5	Harry	23	Pune	90	AI
6	Shivi	24	Mumbai	95	DS
7	Vansh	25	Noida	92	AI
8	Sam	27	Pune	60	ML

8 rows in set (0.00 sec)

```
mysql> DELETE FROM pregrad WHERE name = 'Vansh';  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM pregrad;
```

id	name	age	city	marks	course
1	Sourav	26	Noida	70	DS
2	Rahul	24	Noida	80	AI
3	Ajay	21	Pune	75	DA
4	Neha	22	Gurgaon	78	DS
5	Harry	23	Pune	90	AI
6	Shivi	24	Mumbai	95	DS
8	Sam	27	Pune	60	ML

7 rows in set (0.00 sec)

```
mysql> DELETE FROM pregrad WHERE city = 'Pune';  
Query OK, 3 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM pregrad;
```

id	name	age	city	marks	course
1	Sourav	26	Noida	70	DS
2	Rahul	24	Noida	80	AI
4	Neha	22	Gurgaon	78	DS
6	Shivi	24	Mumbai	95	DS

4 rows in set (0.00 sec)

```
mysql> ALTER TABLE pregrad DROP COLUMN course;
```

Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM pregrad;

id	name	age	city	marks
1	Sourav	26	Noida	70
2	Rahul	24	Noida	80
4	Neha	22	Gurgaon	78
6	Shivi	24	Mumbai	95

4 rows in set (0.00 sec)

mysql> TRUNCATE TABLE pregrad;

Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM pregrad;

Empty set (0.00 sec)

mysql> DROP TABLE pregrad;

Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM pregrad;

ERROR 1146 (42S02): Table 'pre_sep.pregrad' doesn't exist

mysql>

In []: ▶