## **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;
             age city
                            marks course
               26 Noida
  1 Sourav
                               70 DS
  2 Rahul
               24 Noida
                               80 AI
               21 Pune
                               75 DA
  3 Ajay
                               78 DS
  4 Neha
               22 Gurgaon
  5 Harry
               23 Pune
                               90 AI
               24 Mumbai
                               95 DS
  6 Shivi
               25 Noida
    Vansh
                               92 AI
  8 Sam
               27 Pune
                               60 ML
8 rows in set (0.01 sec)
mysql> SELECT * FROM student WHERE city = 'Noida';
  1 Sourav
               26 Noida
                             70 DS
  2 Rahul
               24 Noida
                             80 AI
               25 Noida
  7 Vansh
                             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;
            age city
                           marks course
  1 Sourav
               26 Noida
  2 Rahul
               24 Noida
                               80 AI
```

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

	Advance SQL Queries - Jup					
id	name	age	city	rating	domain	gender
1	Sourav	26	Noida	70	DS	Male
2	Rahul	24	Noida	80	ΑI	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
1 0 1	Jani	۷ /	ridilibai	00	1712	Maie
<pre>8 rows in set (0.00 sec)  mysql&gt; 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&gt; ALTER TABLE emp MODIFY rating BIGINT; Query OK, 0 rows affected (0.01 sec) Records: 0 Duplicates: 0 Warnings: 0  mysql&gt; SELECT * FROM emp; ++</pre>						
id	name	age	city	rating	domain	gender
1 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
				92		Male
				60		Male
<pre># ** ** ** ** ** ** ** ** ** ** ** ** **</pre>						
id	name	age	city	marks	course	
++						

```
DS
        Sourav
                       Noida
                                   70 I
                   26
    2
        Rahul
                       Noida
                   24
                                   80
                                        ΑI
        Ajay
                   21
                       Pune
                                   75
                                        DA
                                        DS
    4
        Neha
                   22 Gurgaon
                                   78
                   23
                       Pune
                                       ΑI
        Harry
                                   90
    6
        Shivi
                   24
                       Mumbai
                                   95 DS
    7 I
        Vansh
                   25
                       Noida
                                   92 AI
                   27 | Pune
        Sam
                                    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;
                       city
                               marks course
                                   70
        Sourav
                   26 Noida
                                        DS
                   24 Noida
        Rahul
                                   80 AI
                      Pune
    3 I
        Ajay
                   21
                                   75 DA
    4
        Neha
                   22 Gurgaon
                                   78 DS
    5 | Harry
                                   90 | AI
                  23 Pune
    6
        Shivi
                   24
                       Mumbai
                                   95
                                        DS
        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;
               age city
 id
        name
                               marks course
    1 Sourav
                   26 Noida
                                   70 DS
    2
        Rahul
                   24 Noida
                                   80 AI
        Neha
                   22
                       Gurgaon
                                   78 DS
        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;
             age city
id
      name
                              marks
    1 | Sourav |
                  26 Noida
                                   70
                  24 Noida
    2 Rahul
                                   80
    4 Neha
                  22 Gurgaon
                                   78
                  24 Mumbai
    6 Shivi
                                   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 [ ]: ▶