

## DML For Project- Social Media Management System

### Users Table

Query Editor Query History

```
1 INSERT INTO users VALUES (101, 'justin@gmail.com', 9190111000, 'abcde@21', 'Justin',
2 'Foley', 'LA', 900013, '1991-01-03', 'M');
3 INSERT INTO users VALUES (102, 'jessica@hotmail.com', 7331190123, 'jejjj', 'Jessica', 'Edgar',
4 'Texas', 123000, '1992-03-01', 'F'),
5 (103, 'alex@hotmail.com', 7331190123, 'aleejjj', 'Alex','Warren', 'Texas', 123000, '1991-02-11', 'M'),
6 (104, 'taylor@hotmail.com', 7331190123, 't123jj', 'Taylor', 'Smith', 'New York', 912000,
7 '1993-12-11', 'M');
```

|   | userid<br>[PK] bigint | email<br>character varying (40) | phone<br>bigint | pass_word<br>character varying (10) | fname<br>character varying (30) | lname<br>character varying (30) | city<br>character varying (20) | pincode<br>character varying (6) | dob<br>date | gender<br>character varying (1) |
|---|-----------------------|---------------------------------|-----------------|-------------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|-------------|---------------------------------|
| 1 | 101                   | justin@gmail.com                | 9190111000      | abcde@21                            | Justin                          | Foley                           | LA                             | 900013                           | 1991-01-03  | M                               |
| 2 | 102                   | jessica@hotmail.com             | 7331190123      | jejjj                               | Jessica                         | Edgar                           | Texas                          | 123000                           | 1992-03-01  | F                               |
| 3 | 103                   | alex@hotmail.com                | 7331190123      | aleejjj                             | Alex                            | Warren                          | Texas                          | 123000                           | 1991-02-11  | M                               |
| 4 | 104                   | taylor@hotmail.com              | 7331190123      | t123jj                              | Taylor                          | Smith                           | New York                       | 912000                           | 1993-12-11  | M                               |
| 5 | 105                   | monica@gmail.com                | 9134111000      | mon@21                              | Monica                          | Geller                          | New York                       | 810013                           | 1992-04-02  | F                               |
| 6 | 106                   | phoebe12@hotmail.com            | 7890923134      | phoebs                              | Phoebe                          | Buffay                          | Denver                         | 912300                           | 1994-01-02  | F                               |
| 7 | 107                   | ross@gmail.com                  | 5611261666      | ross_12                             | Ross                            | Geller                          | Dallas                         | 123000                           | 1991-08-09  | M                               |

Query Editor Query History

```
1 UPDATE users SET email='jess@hotmail.com' WHERE userid=101;
2 UPDATE users SET city='Chicago' WHERE userid=102;
3 UPDATE users SET lname='Bing' WHERE userid=105;
4
5 SELECT * FROM users;
```

Data Output Explain Messages Notifications

|   | userid<br>[PK] bigint | email<br>character varying (40) | phone<br>bigint | pass_word<br>character varying (10) | fname<br>character varying (30) | lname<br>character varying (30) | city<br>character varying (20) | pincode<br>character varying (6) |
|---|-----------------------|---------------------------------|-----------------|-------------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|
| 1 | 103                   | alex@hotmail.com                | 7331190123      | aleejjj                             | Alex                            | Warren                          | Texas                          | 123000                           |
| 2 | 104                   | taylor@hotmail.com              | 7331190123      | t123jj                              | Taylor                          | Smith                           | New York                       | 912000                           |
| 3 | 106                   | phoebe12@hotmail.com            | 7890923134      | phoebs                              | Phoebe                          | Buffay                          | Denver                         | 912300                           |
| 4 | 107                   | ross@gmail.com                  | 5611261666      | ross_12                             | Ross                            | Geller                          | Dallas                         | 123000                           |
| 5 | 101                   | jess@hotmail.com                | 9190111000      | abcde@21                            | Justin                          | Foley                           | LA                             | 900013                           |
| 6 | 102                   | jessica@hotmail.com             | 7331190123      | jejjj                               | Jessica                         | Edgar                           | Chicago                        | 123000                           |
| 7 | 105                   | monica@gmail.com                | 9134111000      | mon@21                              | Monica                          | Bing                            | New York                       | 810013                           |

```

1 DELETE FROM users WHERE userid=103;
2 DELETE FROM users WHERE lname='Smith';
3
4 SELECT * FROM users;

```

Data Output Explain Messages Notifications

|   | userid<br>[PK] bigint | email<br>character varying (40) | phone<br>bigint | pass_word<br>character varying (10) | fname<br>character varying (30) | lname<br>character varying (30) | city<br>character varying (20) | pincode<br>character vary |
|---|-----------------------|---------------------------------|-----------------|-------------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------|
| 1 | 106                   | phoebe12@hotmail.com            | 7890923134      | phoebs                              | Phoebe                          | Buffay                          | Denver                         | 912300                    |
| 2 | 107                   | ross@gmail.com                  | 5611261666      | ross_12                             | Ross                            | Geller                          | Dallas                         | 123000                    |
| 3 | 101                   | jess@hotmail.com                | 9190111000      | abcde@21                            | Justin                          | Foley                           | LA                             | 900013                    |
| 4 | 102                   | jessica@hotmail.com             | 7331190123      | jejjj                               | Jessica                         | Edgar                           | Chicago                        | 123000                    |
| 5 | 105                   | monica@gmail.com                | 9134111000      | mon@21                              | Monica                          | Bing                            | New York                       | 810013                    |
|   |                       |                                 |                 |                                     |                                 |                                 |                                |                           |

Query Editor Query History

```

1 SELECT userid, fname, lname, city, pincode, phone
2 from users
3 where fname like 'J%';

```

Data Output Explain Messages Notifications

|   | userid<br>[PK] bigint | fname<br>character varying (30) | lname<br>character varying (30) | city<br>character varying (20) | pincode<br>character varying (6) | phone<br>bigint |
|---|-----------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|-----------------|
| 1 | 101                   | Justin                          | Foley                           | LA                             | 900013                           | 9190111000      |
| 2 | 102                   | Jessica                         | Edgar                           | Chicago                        | 123000                           | 7331190123      |
|   |                       |                                 |                                 |                                |                                  |                 |

```

1 SELECT userid, email, fname, lname, city, pincode
2 from users
3 where email like '%hotmail%'
4 order by userid;

```

Data Output Explain Messages Notifications

|   | userid<br>[PK] bigint | email<br>character varying (40) | fname<br>character varying (30) | lname<br>character varying (30) | city<br>character varying (20) | pincode<br>character varying (6) |
|---|-----------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|
| 1 | 101                   | jess@hotmail.com                | Justin                          | Foley                           | LA                             | 900013                           |
| 2 | 102                   | jessica@hotmail.com             | Jessica                         | Edgar                           | Chicago                        | 123000                           |
| 3 | 106                   | phoebe12@hotmail.com            | Phoebe                          | Buffay                          | Denver                         | 912300                           |
|   |                       |                                 |                                 |                                 |                                |                                  |

## Posts Table

Query Editor

Query History

```
1 INSERT INTO posts VALUES
2 (443, 101, '2022-02-01', 'Good morning friends!'),
3 (422, 102, '2022-03-03', 'Hello March'),
4 (546, 107, '2022-01-09', 'Happy Thursday'),
5 (542, 106, '2022-03-02', 'Welcome to my page');
6
7 SELECT * FROM posts;
```

Data Output

Explain

Messages

Notifications

|   | post_id<br>[PK] integer | posted_user_id<br>integer | post_date<br>date | post_content<br>character varying (60) |  |
|---|-------------------------|---------------------------|-------------------|--|--|
| 1 | 443                     | 101                       | 2022-02-01        | Good morning friends!                  |  |
| 2 | 422                     | 102                       | 2022-03-03        | Hello March                            |  |
| 3 | 546                     | 107                       | 2022-01-09        | Happy Thursday                         |  |
| 4 | 542                     | 106                       | 2022-03-02        | Welcome to my page                     |  |
|   |                         |                           |                   |  |  |

Query Editor

Query History

```

1 UPDATE posts SET post_content='Hello Feb' where post_id=422;
2 UPDATE posts SET post_date='2022-01-03' where post_id=546;
3
4 SELECT * FROM posts;

```

Data Output

Explain

Messages

Notifications

|   | post_id<br>[PK] integer | posted_user_id<br>integer | post_date<br>date | post_content<br>character varying (60) |
|---|-------------------------|---------------------------|-------------------|--|
| 1 | 443                     | 101                       | 2022-02-01        | Good morning friends!                  |
| 2 | 542                     | 106                       | 2022-03-02        | Welcome to my page                     |
| 3 | 422                     | 102                       | 2022-03-03        | Hello Feb                              |
| 4 | 546                     | 107                       | 2022-01-03        | Happy Thursday                         |

Query Editor

Query History

1

SELECT \* FROM posts

2

ORDER BY POST\_ID DESC;

Data Output

Explain

Messages

Notifications

|   | post_id<br>[PK] integer | posted_user_id<br>integer | post_date<br>date | post_content<br>character varying (60) |
|---|-------------------------|---------------------------|-------------------|--|
| 1 | 546                     | 107                       | 2022-01-03        | Happy Thursday                         |
| 2 | 542                     | 106                       | 2022-03-02        | Welcome to my page                     |
| 3 | 443                     | 101                       | 2022-02-01        | Good morning friends!                  |
| 4 | 422                     | 102                       | 2022-03-03        | Hello Feb                              |

Friends Table

```
1 INSERT INTO FRIENDS VALUES
2 (101, 103), (106, 104),
3 (102, 101), (107, 106),
4 (104, 103), (103, 107),
5 (105, 102);
6
7 SELECT * FROM FRIENDS;
```

| Data Output  | Explain                 | Messages                  | Notifications             |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
|--|-------------------------|---------------------------|---------------------------|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|--|--|--|
| <table><tr><th></th><th>user_id<br/>[PK] integer</th><th>friend_id<br/>[PK] integer</th></tr><tr><td>1</td><td>101</td><td>103</td></tr><tr><td>2</td><td>106</td><td>104</td></tr><tr><td>3</td><td>102</td><td>101</td></tr><tr><td>4</td><td>107</td><td>106</td></tr><tr><td>5</td><td>104</td><td>103</td></tr><tr><td>6</td><td>103</td><td>107</td></tr><tr><td>7</td><td>105</td><td>102</td></tr></table> |                         | user_id<br>[PK] integer   | friend_id<br>[PK] integer | 1 | 101 | 103 | 2 | 106 | 104 | 3 | 102 | 101 | 4 | 107 | 106 | 5 | 104 | 103 | 6 | 103 | 107 | 7 | 105 | 102 |  |  |  |
|  | user_id<br>[PK] integer | friend_id<br>[PK] integer |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 1  | 101                     | 103                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 2  | 106                     | 104                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 3  | 102                     | 101                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 4  | 107                     | 106                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 5  | 104                     | 103                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 6  | 103                     | 107                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 7  | 105                     | 102                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |

```
1 UPDATE FRIENDS SET FRIEND_ID = 102 WHERE USER_ID=103;
2 UPDATE FRIENDS SET FRIEND_ID = 107 WHERE USER_ID=105;
3
4 SELECT * FROM FRIENDS ORDER BY USER_ID;
```

| Data Output  | Explain                 | Messages                  | Notifications             |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
|--|-------------------------|---------------------------|---------------------------|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|--|--|--|
| <table><tr><th></th><th>user_id<br/>[PK] integer</th><th>friend_id<br/>[PK] integer</th></tr><tr><td>1</td><td>101</td><td>103</td></tr><tr><td>2</td><td>102</td><td>101</td></tr><tr><td>3</td><td>103</td><td>102</td></tr><tr><td>4</td><td>104</td><td>103</td></tr><tr><td>5</td><td>105</td><td>107</td></tr><tr><td>6</td><td>106</td><td>104</td></tr><tr><td>7</td><td>107</td><td>106</td></tr></table> |                         | user_id<br>[PK] integer   | friend_id<br>[PK] integer | 1 | 101 | 103 | 2 | 102 | 101 | 3 | 103 | 102 | 4 | 104 | 103 | 5 | 105 | 107 | 6 | 106 | 104 | 7 | 107 | 106 |  |  |  |
|  | user_id<br>[PK] integer | friend_id<br>[PK] integer |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 1  | 101                     | 103                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 2  | 102                     | 101                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 3  | 103                     | 102                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 4  | 104                     | 103                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 5  | 105                     | 107                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 6  | 106                     | 104                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |
| 7  | 107                     | 106                       |                           |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |   |     |     |  |  |  |

```
1 SELECT USERS.USERID, USERS.FNAME, FRIENDS.FRIEND_ID
2 FROM USERS, FRIENDS
3 WHERE USERS.USERID = FRIENDS.USER_ID
4 ORDER BY USERS.USERID;
```

| Data Output   | Explain          | Messages                        | Notifications                   |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
|---|------------------|---------------------------------|---------------------------------|----------------------|---|-----|--------|-----|---|-----|---------|-----|---|-----|------|-----|---|-----|----------|-----|---|-----|--------|-----|---|-----|--------|-----|---|-----|------|-----|--|--|--|
| <table><tr><th></th><th>userid<br/>bigint</th><th>fname<br/>character varying (30)</th><th>friend_id<br/>integer</th></tr><tr><td>1</td><td>101</td><td>Justin</td><td>103</td></tr><tr><td>2</td><td>102</td><td>Jessica</td><td>101</td></tr><tr><td>3</td><td>103</td><td>Joey</td><td>102</td></tr><tr><td>4</td><td>104</td><td>Chandler</td><td>103</td></tr><tr><td>5</td><td>105</td><td>Monica</td><td>107</td></tr><tr><td>6</td><td>106</td><td>Phoebe</td><td>104</td></tr><tr><td>7</td><td>107</td><td>Ross</td><td>106</td></tr></table> |                  | userid<br>bigint                | fname<br>character varying (30) | friend_id<br>integer | 1 | 101 | Justin | 103 | 2 | 102 | Jessica | 101 | 3 | 103 | Joey | 102 | 4 | 104 | Chandler | 103 | 5 | 105 | Monica | 107 | 6 | 106 | Phoebe | 104 | 7 | 107 | Ross | 106 |  |  |  |
|   | userid<br>bigint | fname<br>character varying (30) | friend_id<br>integer            |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 1   | 101              | Justin                          | 103                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 2   | 102              | Jessica                         | 101                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 3   | 103              | Joey                            | 102                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 4   | 104              | Chandler                        | 103                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 5   | 105              | Monica                          | 107                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 6   | 106              | Phoebe                          | 104                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |
| 7   | 107              | Ross                            | 106                             |                      |   |     |        |     |   |     |         |     |   |     |      |     |   |     |          |     |   |     |        |     |   |     |        |     |   |     |      |     |  |  |  |

## Messages

```
1 INSERT INTO MESSAGES VALUES
2 (101, 103, '2021-03-12', 'Hi. How are you?'),
3 (102, 101, '2021-11-04', 'I am good'),
4 (103, 102, '2021-01-10', 'What day is today'),
5 (106, 104, '2021-10-09', 'Hi this is Phoebe');
6
7 SELECT * FROM MESSAGES;
```

Data Output Explain Messages Notifications

|   | user_id<br>[PK] integer | friend_user_id<br>integer | message_date<br>date | message_content<br>character varying (50) |  |
|---|-------------------------|---------------------------|----------------------|---|--|
| 1 | 101                     | 103                       | 2021-03-12           | Hi. How are you?                          |  |
| 2 | 102                     | 101                       | 2021-11-04           | I am good                                 |  |
| 3 | 103                     | 102                       | 2021-01-10           | What day is today                         |  |
| 4 | 106                     | 104                       | 2021-10-09           | Hi this is Phoebe                         |  |
|   |                         |                           |                      |   |  |

## Post Likes Table

```
1 INSERT INTO POSTLIKES VALUES
2 (443, 102), (443, 107), (443, 103),
3 (542, 106), (542, 105), (542, 102),
4 (422, 107), (422, 101), (422, 103);
5
6 SELECT * FROM POSTLIKES;
```

Data Output Explain Messages Notifications

|   | post_id<br>[PK] integer | liked_user_id<br>[PK] integer |  |
|---|-------------------------|-------------------------------|--|
| 1 | 443                     | 102                           |  |
| 2 | 443                     | 107                           |  |
| 3 | 443                     | 103                           |  |
| 4 | 542                     | 106                           |  |
| 5 | 542                     | 105                           |  |
| 6 | 542                     | 102                           |  |
| 7 | 422                     | 107                           |  |
| 8 | 422                     | 101                           |  |
| 9 | 422                     | 103                           |  |

```
1 SELECT POSTLIKES.POST_ID, USERS.USERID, POSTS.POST_CONTENT
2 FROM POSTS, USERS, POSTLIKES
3 WHERE POSTS.POST_ID = POSTLIKES.POST_ID AND USERS.USERID=POSTLIKES.LIKED_USER_ID
4 ORDER BY USERS.USERID;
```

Data Output Explain Messages Notifications

|   | post_id<br>integer | userid<br>bigint | post_content<br>character varying (60) |  |
|---|--------------------|------------------|--|--|
| 1 | 422                | 101              | Hello Feb                              |  |
| 2 | 542                | 102              | Welcome to my page                     |  |
| 3 | 443                | 102              | Good morning friends!                  |  |
| 4 | 422                | 103              | Hello Feb                              |  |
| 5 | 443                | 103              | Good morning friends!                  |  |
| 6 | 542                | 105              | Welcome to my page                     |  |
| 7 | 542                | 106              | Welcome to my page                     |  |
| 8 | 422                | 107              | Hello Feb                              |  |
| 9 | 443                | 107              | Good morning friends!                  |  |