**Assignment2 - Questions:**

**1. What should be done to make users pair insertion unique i.e. to avoid duplicate user relationship creation?**

We can create Unique Key Contrain for multiple fields

ALTER TABLE relationship ADD CONSTRAINT user\_one\_two\_id\_UNIQUE UNIQUE KEY(user\_one\_id,user\_two\_id);

**2. What will be the insert query to insert a new Friend request sent by user 1 to user 2?**

INSERT INTO relationship (`user\_one\_id`, `user\_two\_id`, `status`, `action\_user\_id`) VALUES ('1', '2', '0', '2');

**3. What will be the query to update the status of the friend request i.e. accepting friend request sent to user 2 by user 1?**

There are two ways to achieve this functionality, either using an update query or insert a new row.

UPDATE relationship set user\_one\_id = 2, user\_two\_id = 1, status = 1, action\_user\_id = 1 where user\_one\_id = 1 and user\_two\_id = 2 and status = 0 and action\_user\_id = 2;

INSERT INTO relationship (`user\_one\_id`, `user\_two\_id`, `status`, `action\_user\_id`) VALUES ('2', '1', '1', '1');

**4. What will be the query to check if any two users are friends?**

SELECT \* FROM relationship where (user\_one\_id = 1 and user\_two\_id = 2 and status = 1) or (user\_one\_id = 2 and user\_two\_id = 1 and status = 1);

**5. What will be the query to retrieve all the users’ friends? Here user 1 is the logged in user**

(SELECT user\_two\_id, users.username FROM relationship LEFT JOIN useres where user\_one\_id = 1 and status = 1 and relationship.user\_two\_id = users.user\_id) UNION (SELECT user\_one\_id, users.username FROM relationship LEFT JOIN users where user\_two\_id = 1 and status = 1 and relationship.user\_one\_id = users.user\_id) ;

**6. What will be the query to get the entire pending user request for the user from other users? Here user 1is logged in.**

SELECT users.username FROM relationship LEFT JOIN users where user\_two\_id = 1 and status = 0 and relationship.user\_one\_id = users.user\_id;

**7. What will be the query to retrieve the friend request status when the logged in user visits the profile of another user? Here, user 1 is the logged in user. User 1 visits the profile of user7.**

SELECT status FROM relationship where user\_two\_id = 1 and user\_two\_id = 7;