

1. Insert new records in tables

USE instagram;

--insert new records in a table user

```
INSERT INTO user ( username, password)
```

```
VALUES ('pchInts', 12345678);
```

```
INSERT INTO user ( username, password)
```

```
VALUES ('yana.kuchinskaya', 595797599);
```

```
INSERT INTO user ( username, password)
```

```
VALUES ('alexpchelintsev', 88888888);
```

```
INSERT INTO user ( username, password)
```

```
VALUES ('sttsnk.l', 36378);
```

```
INSERT INTO user ( username, password)
```

```
VALUES ('marisha_radul', 7777777);
```

--insert new records in a table personal_data

```
INSERT INTO personal_data ( name, email, phone, user_id)
```

```
VALUES ('Yana Kuchinskaya', 'yanakuchinskaya123@gmail.com', '195127392', 3);
```

```
INSERT INTO personal_data ( name, email, phone, user_id)
```

```
VALUES ('Tatiana Pchelintseva', 'taniapcholka@gmail.com', '1445599656', 1);
```

```
INSERT INTO personal_data ( name, email, phone, user_id)
```

```
VALUES ('Alex Pchelintsev', 'alexpchelintsev@gmail.com', '1123432167', 4);
```

```
INSERT INTO personal_data ( name, email, phone, user_id)
```

```
VALUES ('Elizaveta Statsenko', 'lizazaza@gmail.com', '1545637255', 10);
```

```
INSERT INTO personal_data ( name, email, phone, user_id)
```

```
VALUES ('Marina Radul', 'marisharadul@gmail.com', '12346852566', 11);
```

--insert new records in a table followers

```
INSERT INTO followers ( user_id, user1_id)
```

```
VALUES (1, 3);
```

```
INSERT INTO followers ( user_id, user1_id)
```

```
VALUES (1, 4);
INSERT INTO followers ( user_id, user1_id)
VALUES (3, 4);
INSERT INTO followers ( user_id, user1_id)
VALUES (3, 1);
INSERT INTO followers ( user_id, user1_id)
VALUES (10, 4);
INSERT INTO followers ( user_id, user1_id)
VALUES (10, 3);
INSERT INTO followers ( user_id, user1_id)
VALUES (3, 10);
INSERT INTO followers ( user_id, user1_id)
VALUES (3, 11);
INSERT INTO followers ( user_id, user1_id)
VALUES (11, 3);
INSERT INTO followers ( user_id, user1_id)
VALUES (11, 1);
INSERT INTO followers ( user_id, user1_id)
VALUES (1, 11);
```

--insert new records in a table post

```
INSERT INTO post (user_id)
VALUES ( 10);
INSERT INTO post (user_id)
VALUES ( 10);
INSERT INTO post ( user_id)
VALUES ( 10);
INSERT INTO post (user_id)
VALUES ( 10);
INSERT INTO post (user_id)
VALUES ( 10);
INSERT INTO post (user_id)
```

```
VALUES ( 10);  
INSERT INTO post ( user_id)  
VALUES ( 10);  
INSERT INTO post (user_id)  
VALUES ( 10);  
INSERT INTO post (user_id)  
VALUES ( 1);  
INSERT INTO post (user_id)  
VALUES ( 3);  
INSERT INTO post (user_id)  
VALUES ( 3);  
INSERT INTO post (user_id)  
VALUES ( 11);  
INSERT INTO post (user_id)  
VALUES (11);  
INSERT INTO post (user_id)  
VALUES ( 11);
```

--insert new records in a table comment

```
INSERT INTO comment (user_id, post_id, text)  
VALUES ( 1, 3, "beautiful");  
INSERT INTO comment (user_id, post_id, text)  
VALUES ( 10, 11, "delightfully");  
INSERT INTO comment (user_id, post_id, text)  
VALUES ( 1, 14, "OMG");  
INSERT INTO comment (user_id, post_id, text)  
VALUES ( 3, 13, "CUTIES :)))");  
INSERT INTO comment (user_id, post_id, text)  
VALUES ( 10, 14, "This took my breath away!!");  
INSERT INTO comment (user_id, post_id, text)  
VALUES ( 3, 14, "woowwww");
```

--insert new records in a table file

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 82657, 'PNG', 1);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 52657, 'PNG', 2);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 22657, 'PNG', 3);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 72657, 'PNG', 4);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 33657, 'PNG', 5);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 42657, 'PNG', 6);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 80657, 'PNG', 7);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 82657, 'PNG', 8);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 22657, 'PNG', 9);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 55657, 'PNG', 10);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 72657, 'PNG', 11);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 66657, 'PNG', 12);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 35453, 'PNG', 13);
```

```
INSERT INTO file (size, type, post_id)
```

```
VALUES ( 34545, 'PNG', 14);
```

--insert new records in a table dialog

```
INSERT INTO dialog ( id)
```

```
VALUES ( 1);
```

```
INSERT INTO dialog ( id)
```

```
VALUES ( 2);
```

```
INSERT INTO dialog ( id)
```

```
VALUES ( 3);
```

```
INSERT INTO dialog ( id)
```

```
VALUES ( 4);
```

```
INSERT INTO dialog ( id)
```

```
VALUES ( 5);
```

```
INSERT INTO dialog ( id)
```

```
VALUES ( 6);
```

--insert new records in a table dialog_user

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 1, 1);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 2, 3);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 2, 1);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 2, 10);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 3, 3);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 3, 11);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 4, 11);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 4, 1);
```

```
INSERT INTO dialog_user ( dialog_id, user_id)
```

```
VALUES ( 5, 10);  
INSERT INTO dialog_user ( dialog_id, user_id)  
VALUES ( 6, 11);
```

--insert new records in a table message

```
INSERT INTO message ( text, user_id)  
VALUES ( 'Do not forget to buy avocados!!!!' , 1);  
INSERT INTO message ( text, user_id)  
VALUES ( 'Hello!', 3);  
INSERT INTO message ( text, user_id)  
VALUES ( 'Do not forget to buy milk!!!' ,11 );  
INSERT INTO message ( text, user_id)  
VALUES ( 'Hello!', 10);  
INSERT INTO message ( text, user_id)  
VALUES ( 'Call me' , 1);  
INSERT INTO message ( text, user_id)  
VALUES ( 'Hello!', 11);
```

--insert new records in a table dialod_message

```
INSERT INTO dialog_message ( dialog_id, message_id)  
VALUES ( 1,1);  
INSERT INTO dialog_message ( dialog_id, message_id)  
VALUES ( 2, 2);  
INSERT INTO dialog_message ( dialog_id, message_id)  
VALUES ( 6, 3);  
INSERT INTO dialog_message ( dialog_id, message_id)  
VALUES ( 3, 4);  
INSERT INTO dialog_message ( dialog_id, message_id)  
VALUES ( 4, 5);  
INSERT INTO dialog_message ( dialog_id, message_id)  
VALUES ( 5, 6);
```

2. Functionalities

1. Trivial query for personal_data table
2. Trivial query for followers table
3. Show the name and phone number of each user
4. Show user's publications and their name
5. Show the author of the comment, its content and commented publication
6. Show the number of posts of each person's user
7. Show belonging people to the dialogue

--FUNCTIONALITIES:

-- 1 -- Trivial query for personal_data table

```
SELECT * FROM personal_data;
```

-- 2 -- Trivial query for followers table

```
SELECT * FROM followers
```

--3 -- INNER JOIN Example 2 tables

```
CREATE VIEW third_table AS
```

```
SELECT user.username, personal_data.name, personal_data.phone
```

```
FROM user
```

```
INNER JOIN personal_data
```

```
ON user.id = personal_data.user_id;
```

--4 -- INNER JOIN Three Tables

```
CREATE VIEW fourth_table AS
```

```
SELECT user.username, personal_data.name, post.id
```

```
FROM ((user
```

```
INNER JOIN personal_data ON user.id = personal_data.user_id)
```

```
INNER JOIN post ON user.id = post.user_id);
```

-- 5 -- RIGHT JOIN Example

```
CREATE VIEW fifth_table AS
```

```
SELECT user.username, comment.post_id, comment.text
```

```
FROM user  
RIGHT JOIN comment  
ON user.id = comment.user_id;
```

-- 6 -- The COUNT() function returns the number of rows that
--matches a specified criteria.

```
CREATE VIEW sixth_table AS  
SELECT user.username, COUNT(post.id)  
FROM user  
LEFT JOIN post ON user.id = post.user_id  
GROUP BY user.username;
```

-- 7 -- ORDER BY

```
CREATE VIEW seventh_table AS  
SELECT dialog_user.dialog_id, user.username  
FROM dialog_user  
JOIN user ON dialog_user.user_id = user.id  
ORDER BY dialog_user.dialog_id
```

```
SELECT * FROM third_table;  
SELECT * FROM fourth_table;  
SELECT * FROM fifth_table;  
SELECT * FROM sixth_table;  
SELECT * FROM seventh_table;
```