

- **Insert new user into database (register)**

```
query = "INSERT INTO Users (Fname ,Lname , Email, UPassword ,  
Phone ,Birthday ,About ) VALUES (%s, %s, %s,%s, %s, %s,%s)"  
values = (firstname, lastname,email, hash,phone,date,about)
```

- **Get user that just registered**

```
query = "SELECT UserId FROM Users WHERE Email = %s AND UPassword = %s"  
values = (email,hash)
```

- **Get all user info knowing their email (log in)**

```
query = "SELECT * FROM Users WHERE Email=%s"  
values = (email,)
```

- **Get posts from user's friends and liked pages**

```
query=  
""  
(SELECT CONCAT(u.Fname ," ", u.Lname) AS name, u.UserId, up.PostId ,up.PTime,  
p.Title ,p.Likes, up.IsCreated  
FROM users u  
JOIN userpost up on u.UserId= up.UserId  
JOIN post p on p.PostId=up.PostId  
JOIN friends f on f.User1Id = u.UserId  
WHERE f.User2Id = %s)  
UNION  
SELECT CONCAT(u.Fname ," ", u.Lname) AS name, u.UserId, up.PostId ,up.PTime,  
p.Title ,p.Likes, up.IsCreated  
FROM users u  
JOIN userpost up on u.UserId= up.UserId  
JOIN post p on p.PostId=up.PostId  
JOIN friends f on f.User2Id = u.UserId  
WHERE f.User1Id = %s)  
UNION  
(SELECT pa.Name,pa.PageId,po.PostId,pp.PTime,po.Title,pa.Likes,pp.IsCreated  
FROM page pa  
JOIN pagepost pp on pa.PageId = pp.PageId  
JOIN post po on po.PostId=pp.PostId  
JOIN likespage l on l.PageId = pa.PageId  
WHERE l.UserId= %s)  
ORDER BY PTime DESC  
""  
values = [session['user_id'],session['user_id'],session['user_id']]
```

- **Insert new user created post**

```
query = "INSERT INTO Post(Title) VALUES( %s )"  
values = [title]
```

```
query = "INSERT INTO UserPost(UserId,IsCreated,PostId) VALUES (%s,1,(select PostId  
from post where Title = %s))"
```

```
values = [session['user_id'],title]
```

- **Insert new user shared post**

```
query = "INSERT INTO UserPost(PostId, UserId, IsCreated) VALUES( %s,%s, 0 )"
```

```
values = [postid,session['user_id']]
```

- **Get user info knowing id (to display in profile)**

```
query = "SELECT * FROM users WHERE UserId=%s"
```

```
values = (user_id,)
```

- **Get all posts by a certain user id**

```
query = '''SELECT CONCAT(u.Fname ," ", u.Lname) AS name, u.UserId,
```

```
up.PostId ,up.PTime,
```

```
p.Title ,p.Likes, up.IsCreated
```

```
FROM users u
```

```
JOIN userpost up on u.UserId= up.UserI
```

```
JOIN post p on p.PostId=up.PostId
```

```
WHERE u.UserId = %s
```

```
ORDER BY up.PTime DESC'''
```

```
values = [session['user_id']]
```

- **Update user info**

```
query = "UPDATE users SET Phone=%s, About=%s WHERE UserId=%s"
```

```
values = (phone, about, user_id)
```

- **Get user's friends**

```
query = '''(SELECT CONCAT(u.Fname, " ", u.Lname), u.About
```

```
FROM friends f
```

```
JOIN users u ON f.User2Id = u.UserId
```

```
WHERE f.User1Id = %s)
```

```
UNION
```

```
(SELECT CONCAT(u.Fname, " ", u.Lname), u.About
```

```
friends f
```

```
JOIN users u
```

```
ON f.User1Id = u.UserId
```

```
WHERE f.User2Id = %s)
```

```
'''
```

```
values = (session['user_id'],session['user_id'])
```

- **Get other users (not friends)**

```
query = '''SELECT CONCAT(Fname, " ", Lname), About, UserId
```

```
FROM users u
```

```
WHERE UserId != %s AND UserId NOT IN ((SELECT u.UserId
```

```
FROM friends f
```

```

JOIN users u ON f.User2Id = u.UserId
WHERE f.User1Id = %s)
UNION
(SELECT u.UserId
FROM friends f
JOIN users u
ON f.User1Id = u.UserId
WHERE f.User2Id = %s));
'''
values = (session['user_id'],session['user_id'],session['user_id'])

```

- **Add friend**

```

query = "INSERT INTO Friends(User1Id,User2Id) VALUES( %s,%s)"
values = [session['user_id'],fid[1:-1]]

```

- **Get User's created pages**

```

query = " SELECT Name,CompanyEmail,DateCreated,Likes,PageId FROM page WHERE
CreatorId= %s"
values = (session['user_id'],)

```

- **Get User's liked pages**

```

query = '''SELECT
page.Name,page.CompanyEmail,page.DateCreated,page.Likes,page.PageId
FROM page
JOIN likespage ON likespage.PageId = page.PageId
WHERE CreatorId != %s AND likespage.UserId = %s'''
values = (session['user_id'],session['user_id'])

```

- **Get other pages**

```

query = '''SELECT
page.Name,page.CompanyEmail,page.DateCreated,page.Likes,page.PageId
FROM page WHERE CreatorId != %s AND page.PageId NOT IN(SELECT page.PageId FROM page
JOIN likespage ON likespage.PageId = page.PageId WHERE likespage.UserId = %s)'''
values = (session['user_id'],session['user_id'])

```

- **Create page**

```

query = "INSERT INTO page (Name, CompanyEmail,CreatorId) VALUES (%s,%s,%s)"
values = (name, email,session['user_id'])

```

- **Get page info**

```

query = "SELECT Name,Likes FROM page WHERE PageId=%s"
values = (page_id,)

```

- **Get posts by a certain page**

```
query = '''(select pa.Name,pa.PageId, po.PostId,pa.DateCreated,po.Title,
po.Likes,pp.IsCreated from page pa
join pagepost pp on pa.PageId = pp.PageId
join post po on po.PostId=pp.PostId
where pa.PageId= %s
order by pa.DateCreated desc)'''
values = [page_id]
```

- **Insert new page post**

```
query = "INSERT INTO post(Title) VALUES( %s )"
values = [title]
query = "INSERT INTO pagepost(PageId, IsCreated,Postid) VALUES (%s , 1,(SELECT
PostId FROM post WHERE Title = %s ))"
values = [page_id[1:-1],title]
```

- **Like page**

```
query = "INSERT INTO likespage(PageId, UserId) VALUES (%s ,%s)"
values = [page_id,user_id]
query = "UPDATE page SET Likes = Likes + 1 WHERE PageId = %s"
values = [page_id]
```

- **Unlike page**

```
query = "DELETE FROM likespage WHERE PageId=%s AND UserId=%s;"
values = [page_id,user_id]
query = "UPDATE page SET Likes = Likes - 1 WHERE PageId = %s"
values = [page_id]
```

- **Send message**

```
query = " INSERT INTO chat(Msg,SenderId,ReceiverId) VALUES(%s,%s,%s);"
values = (message, session['user_id'],uid)
```

- **Get chat between user and another friend**

```
query = '''SELECT Msg, CTime, SenderId FROM chat
WHERE (SenderId = %s AND ReceiverId = %s) OR (SenderId = %s AND ReceiverId = %s)
ORDER BY CTime;'''
values = (session['user_id'],uid, uid,session['user_id'])
```