

Q.5)

a.) Eg-1 Using the instagram app on my phone. it shows the posts of all the people whom I am following.

the eg. SQL query can be.

```
select * from posts where userid in (select userid
followersid from users where userid = <MYID/MYNAME>) ;
order by posts. POSTDATETIME DESC;
```

Eg, 2 The second app on my phone that I can think about is UBEREATS. if I filter through the restaurants offering 'PIZZA', then it only shows the corresponding restaurants. The SQL query can be.

```
select * from restaurants where restaurant.keyword
like '%PIZZA%' and restaurants.location like '%LOS
ANGELES%';
```

b.) The conversion from UI to SQL query happens in the backend typically Java (or) Python. where it processes the input and generates the respective query. sometimes this can also happen using Javascript. Then the SQL query is executed in the database and returns the requested results which shall be processed on the users device/client device. Typically ODBC/JDBC will be used for backend to connect to database