

Question 1

- Front page

```
SET @Username = 'vduce5f';
SELECT Liking.PostID, User.Username, Post.CreationTime,
COUNT(Liking.PostID) AS NumberOfLikes FROM Liking INNER JOIN Post
ON Liking.PostID = Post.ID INNER JOIN User ON Post.UserID =
User.ID WHERE User.Username = @Username GROUP BY Liking.PostID;
```

- For PostMedia portion

```
SELECT Liking.PostID INTO @pID FROM Liking INNER JOIN Post ON
Liking.PostID = Post.ID INNER JOIN User ON Post.UserID = User.ID
WHERE User.Username = @Username GROUP BY Liking.PostID;
SELECT @pID;
SELECT PostMedia.PostID, PostMedia.MediaTypeID,
PostMedia.MediaFileUrl FROM PostMedia WHERE PostMedia.PostID =
@pID;
```

Question 2

- Main query

```
SET @ID = 1;
SELECT COUNT(UserID) AS NumberOfPosts INTO @NumberOfPosts FROM
Post WHERE UserID = @ID;
SELECT COUNT(Following.FollowerUserID) AS NumberOfFollowers INTO
@NumberOfFollowers FROM User INNER JOIN Following ON User.ID =
Following.FollowerUserID WHERE User.ID = @ID;
SELECT COUNT(Following.FolloweeUserID) AS NumberOfFollowedUsers
INTO @NumberOfFollowedUsers FROM User INNER JOIN Following ON
User.ID = Following.FolloweeUserID WHERE User.ID = @ID;
SELECT Post.UserID, User.Username, User.Website, User.Bio,
User.ProfileImageUrl, @NumberOfPosts, @NumberOfFollowers
, @NumberOfFollowedUsers FROM User INNER JOIN Post ON User.ID =
Post.UserID WHERE User.ID = @ID;
```

- Post by the user

```
SELECT Post.ID, Post.LocationName, MediaType.Name,  
PostMedia.MediaFileUrl FROM Post INNER JOIN PostMedia ON Post.ID =  
PostMedia.PostID INNER JOIN MediaType ON PostMedia.MediaTypeID =  
MediaType.ID WHERE Post.UserID = @ID ORDER BY `Post`.`ID` DESC;
```

Question 3

- Main query

```
SET @pID = 5;  
SELECT Liking.PostID, User.Username, User.ProfileImageUrl,  
Post.LocationName, Post.Location, COUNT(Liking.PostID) AS  
NumberOfLikes FROM Liking INNER JOIN Post ON Liking.PostID =  
Post.ID INNER JOIN User ON Post.UserID = User.ID WHERE  
Liking.PostID = @pID;
```

- Media files

```
SELECT PostMedia.ID, PostMedia.MediaTypeID, PostMedia.MediaFileUrl  
FROM PostMedia INNER JOIN Liking ON PostMedia.PostID =  
Liking.PostID WHERE PostMedia.PostID = @pID;
```

- Comments

```
SELECT Comment.ID, Comment.Comment, Comment.CreationTime FROM  
Liking INNER JOIN Comment ON Liking.PostID = Comment.PostID WHERE  
Comment.PostID = @pID ORDER BY Comment.CreationTime;
```