

### 3.1

Query to find all photos available to a test user '%s':

```
SELECT DISTINCT *
FROM photo
NATURAL JOIN ((
    SELECT photoID
    FROM SharedWith
    JOIN BelongTo
    ON member_username = %s)
UNION (
    SELECT photoID
    FROM Follow
    JOIN photo
    ON username_follower = %s
    AND username_followed = photoPoster
    AND allFollowers = 1)) as m
LEFT JOIN (Tagged)
ON photo.photoID = Tagged.photoID
ORDER BY photo.photoID DESC
```

Link to GitHub repo: [https://github.com/PeterCheaterPumpkinEater/PeterLiu\\_DB\\_Project.git](https://github.com/PeterCheaterPumpkinEater/PeterLiu_DB_Project.git)

Most of the code is in the routes.py,  
The configuration is in \_\_init\_\_.py

### 3.2

For my extra features, I plan to implement manage follows and manage tags