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CS460

SQL Schema:

```
CREATE DATABASE IF NOT EXISTS photoshare;
USE photoshare;

DROP TABLE IF EXISTS Pictures CASCADE;
DROP TABLE IF EXISTS Albums CASCADE;
DROP TABLE IF EXISTS Users CASCADE;
DROP TABLE IF EXISTS Friends CASCADE;
DROP TABLE IF EXISTS Tags CASCADE;
DROP TABLE IF EXISTS Comments CASCADE;
DROP TABLE IF EXISTS Likes CASCADE;

CREATE TABLE Users (
    user_id int4 AUTO_INCREMENT,
    email varchar(255) UNIQUE,
    password varchar(255),
    fname varchar(255),
    lname varchar(255),
    hometown varchar(255),
    birthday DATE,
    gender varchar(10),
    CONSTRAINT users_pk PRIMARY KEY (user_id)
);

CREATE TABLE Pictures
(
    picture_id int4 AUTO_INCREMENT,
    user_id int4,
    imgdata longblob ,
    caption VARCHAR(255),
    album_id int4,
    INDEX upid_idx (user_id),
    CONSTRAINT pictures_pk PRIMARY KEY (picture_id)
);

CREATE TABLE Albums
```

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(
    album_id int4  AUTO_INCREMENT,
    user_id int4,
    album_name VARCHAR(255),
    INDEX upid_idx (user_id),
    CONSTRAINT album_pk PRIMARY KEY (album_id)
);

CREATE TABLE Friends
(
    user_id int4,
    friend_id int4,
    INDEX upid_idx (user_id),
    CONSTRAINT friends_pk PRIMARY KEY (user_id, friend_id)
);

CREATE TABLE Tags
(
    tag_id int4  AUTO_INCREMENT,
    user_id int4,
    picture_id int4,
    tag_text VARCHAR(255),
    INDEX upid_idx (user_id),
    CONSTRAINT tags_pk PRIMARY KEY (tag_id)
);

CREATE TABLE Comments
(
    comment_id int4  AUTO_INCREMENT,
    user_id int4,
    picture_id int4,
    comment_text VARCHAR(255),
    INDEX upid_idx (user_id),
    CONSTRAINT comments_pk PRIMARY KEY (comment_id)
);

CREATE TABLE Likes
(
    like_id int4  AUTO_INCREMENT,
    user_id int4,
    picture_id int4,
    INDEX upid_idx (user_id),
```

```

CONSTRAINT likes_pk PRIMARY KEY (like_id)
);
INSERT INTO Users (email, password, fname, lname, hometown, birthday,gender) VALUES
('osamuels@bu.edu', '123', 'Oliver', 'Samuels', 'Hyattsville', '2000-10-29','male');
INSERT INTO Users (email, password, fname, lname, hometown, birthday,gender) VALUES
('pjsamuels3@gmail.edu', '123', 'PJ', 'Samuels', 'Hyattsville', '2000-10-29','male');
INSERT INTO Users (email, password, fname, lname, hometown, birthday,gender) VALUES
('test@bu.edu', 'test', 'john', 'doe', 'boston', '2023-02-01','male');
INSERT INTO Users (email, password, fname, lname, hometown, birthday,gender) VALUES
('test1@bu.edu', 'test', 'jane', 'doe', 'boston', '2023-02-01','female');

```

Schema and website limitations:

1. Photos can only be uploaded after making an album, an album can be added to after creation but no photo can be uploaded without connecting to an album
2. Tags can only be added by a user after going through to an already created album and photo
3. Browsing you user tags can only be done from personal album and photo page connection
4. Comments can be made by anyone even non logged in users but cannot be viewed in the users own personal view because of time constraints
5. Note: when an input is invalid or not already been added to a table sometimes there is no error message the page will just be refreshed