Kevin Lunden, Carter Mooring
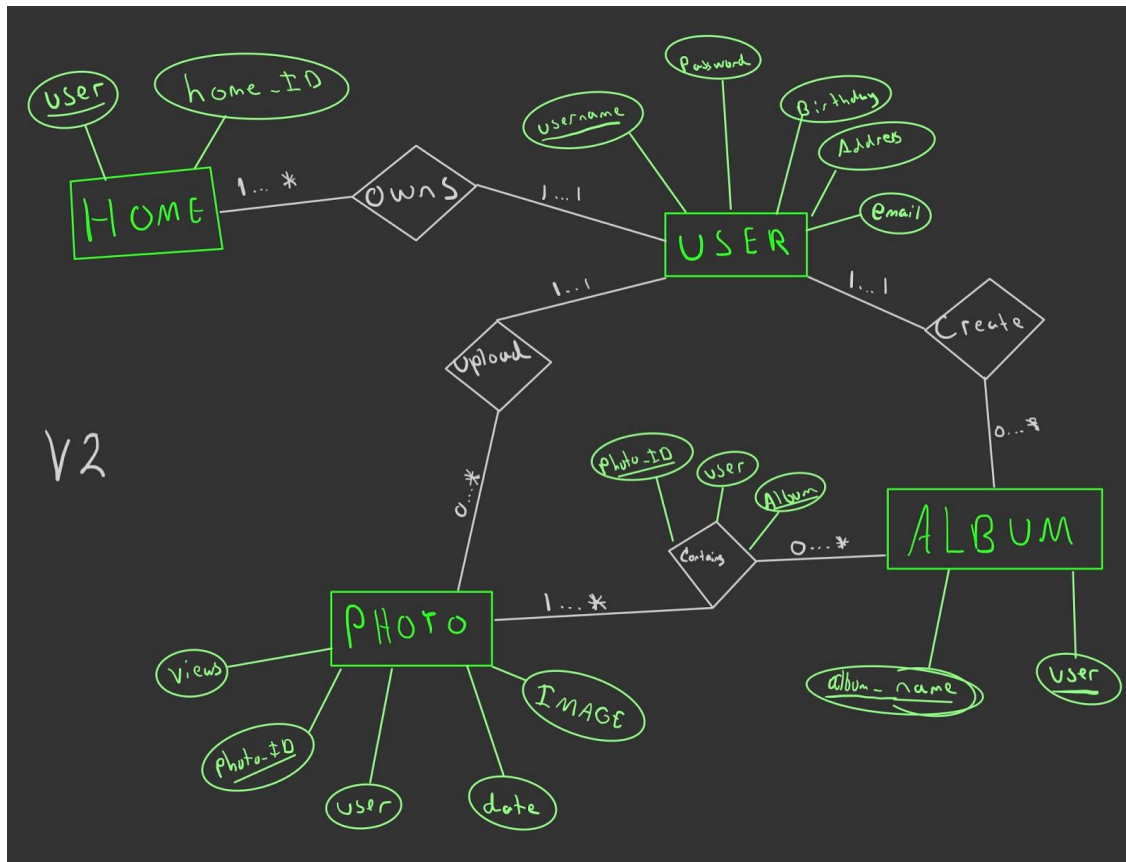
Project Part 4

10-22-20

CPSC 321

(10/10)

1. ER Diagram

2. Relational Schema

user(<u>username,</u> email, password, birthday, address)
home(<u>user</u>, home_ID)
    user -> user (username)
album(<u>album_name, user)</u>
    user -> user (username)
photo(<u>photo_id</u>, views, user, date, IMAGE)
    user-> user (username)

contains(<u>photo_id, album</u>, user)
    user-> user (username),
    photo_id-> photo (photo_id),
    album-> album (album_name)

```
mysql> select * from (person);
+-------------+--------------------------+----------+------------+--------------+
| username    | email                    | password | birthday   | address      |
+-------------+--------------------------+----------+------------+--------------+
| CarterKekoa | carterkekoa@gmail.com    | 1234     | 1999-08-03 | Spokane, WA  |
| Kevin.Lund  | Kevin.Lunden@gmail.com   | 12345    | 1999-03-20 | Spokane, WA  |
+-------------+--------------------------+----------+------------+--------------+
2 rows in set (0.00 sec)

mysql> select * from (home);
+-------------+---------+
| person      | home_id |
+-------------+---------+
| CarterKekoa |       1 |
| Kevin.Lund  |       2 |
+-------------+---------+
2 rows in set (0.00 sec)

mysql> select * from (photoAlbum);
+-------------+-------------+
| album_name  | person      |
+-------------+-------------+
| FacE        | Kevin.Lund  |
| FaceShots   | CarterKekoa |
+-------------+-------------+
2 rows in set (0.00 sec)

mysql> select * from (photo);
+----------+-------+-------------+------------+
| photo_id | views | person      | date_added |
+----------+-------+-------------+------------+
|        1 |    12 | CarterKekoa | 2020-10-21 |
|        2 |    32 | Kevin.Lund  | 2020-10-20 |
+----------+-------+-------------+------------+
2 rows in set (0.01 sec)

mysql> select * from (contains);
+----------+-------------+---------------+
| photo_id | person      | photoAlbumName |
+----------+-------------+---------------+
|        1 | CarterKekoa | FaceShots     |
|        2 | Kevin.Lund  | FacE          |
+----------+-------------+---------------+
2 rows in set (0.00 sec)

mysql>
klunden2@ada:~/CPSC321$
```

```sql
SET sql_mode = STRICT_ALL_TABLES;

DROP TABLE if EXISTS contains;
DROP TABLE if EXISTS photo;
DROP TABLE if EXISTS photoAlbum;
DROP TABLE if EXISTS home;
DROP TABLE if EXISTS person;

CREATE TABLE person(
        username VARCHAR (30),
        email VARCHAR (50) DEFAULT NULL,
        password blob,
        birthday DATE,
        address VARCHAR (50),
        PRIMARY KEY (username)
);

CREATE TABLE home(
        person VARCHAR (30),
        home_id INT UNSIGNED NOT NULL,
        PRIMARY KEY (person),
        FOREIGN KEY (person) REFERENCES person (username)
);

CREATE TABLE photoAlbum(
        album_name VARCHAR (30),
        person VARCHAR (30),
        PRIMARY KEY (album_name, person),
        FOREIGN KEY (person) REFERENCES person (username)
);

CREATE TABLE photo(
        photo_id INT UNSIGNED NOT NULL,
        views INT UNSIGNED,
        person VARCHAR (30),
        date_added DATE,
        /*IMAGE blob,*/
        PRIMARY KEY (photo_id),
        FOREIGN KEY (person) REFERENCES person (username)
);

CREATE TABLE contains(
        photo_id INT UNSIGNED NOT NULL,
        person VARCHAR (30),
        album_name VARCHAR (30),
        PRIMARY KEY (photo_id, album_name),
        FOREIGN KEY (person) REFERENCES person (username),
        FOREIGN KEY (photo_id) REFERENCES photo (photo_id),
        FOREIGN KEY (album_name) REFERENCES photoAlbum (album_name)
);

INSERT INTO person VALUES("CarterKekoa", "carterkekoa@gmail.com", 1234, '1999-08
-03', "Spokane, WA");
INSERT INTO person VALUES("Kevin.Lund", "Kevin.Lunden@gmail.com", 12345, '1999-0
3-20', "Spokane, WA");
INSERT INTO home VALUES("CarterKekoa", 1);
INSERT INTO home VALUES("Kevin.Lund", 2);
INSERT INTO photoAlbum VALUES("FaceShots", "CarterKekoa");
INSERT INTO photoAlbum VALUES("Facials", "CarterKekoa");
INSERT INTO photoAlbum VALUES("FacE", "Kevin.Lund");
```

```
INSERT INTO photoAlbum VALUES("Headshots", "Kevin.Lund");
INSERT INTO photo VALUES(1, 9, "CarterKekoa", '2020-10-21');
INSERT INTO photo VALUES(2, 32, "Kevin.Lund", '2020-10-20');
INSERT INTO photo VALUES(3, 45, "CarterKekoa", '2020-11-2');
INSERT INTO photo VALUES(4, 33, "Kevin.Lund", '2020-11-3');
INSERT INTO contains VALUES(1, "CarterKekoa", "FaceShots");
INSERT INTO contains VALUES(2, "Kevin.Lund", "FacE");
INSERT INTO contains VALUES(3, "CarterKekoa", "Facials");
INSERT INTO contains VALUES(4, "Kevin.Lund", "Headshots");
```