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CS 460
Photo Project Relational Schema

```
CREATE TABLE Users (  uid          INTEGER,
                        fname        VARCHAR,
                        lname        VARCHAR,
                        email        VARCHAR UNIQUE,
                        dob           DATE,
                        hometown     VARCHAR,
                        gender        VARCHAR,
                        pw            VARCHAR,
                        PRIMARY KEY (uid) )
```

```
CREATE TABLE Friends (      user1      VARCHAR,
                              user2      VARCHAR,
                              PRIMARY KEY (user1, user2),
                              FOREIGN KEY (user1) REFERENCES Users(uid),
                              FOREIGN KEY (user2) REFERENCES Users(uid) )
```

```
CREATE TABLE Albums (      aid          INTEGER,
                              name        VARCHAR,
                              created     DATE,
                              PRIMARY KEY (aid) )
```

```
CREATE TABLE Album_Owner (  aid          INTEGER,
                              uid          INTEGER,
                              name        VARCHAR,
                              created     DATE,
                              PRIMARY KEY (uid),
                              UNIQUE      (aid),
                              FOREIGN KEY (uid) REFERENCES Users(uid) )
```

```
CREATE TABLE Photos (      pid          INTEGER,
                              caption     VARCHAR,
                              data        BLOB,
                              PRIMARY KEY (data) )
```

```
CREATE TABLE Has_Photos (  pid          INTEGER,
                              aid          INTEGER,
                              caption     BLOB,
                              PRIMARY KEY (aid),
                              UNIQUE      (pid),
                              FOREIGN KEY (aid) REFERENCES Albums(aid) )
```

```

CREATE TABLE Comments (
    cid      INTEGER,
    uid      INTEGER UNIQUE FOREIGN KEY
            REFERENCES Users(uid),
    pid      INTEGER FOREIGN KEY REFERENCES
            Photos(pid),
    text     VARCHAR,
    dp       DATE,
    PRIMARY KEY (cid, pid))

```

```

CREATE TABLE Likes (
    pid      INTEGER FOREIGN KEY REFERENCES
            Photos(pid),
    uid      INTEGER FOREIGN KEY REFERENCES
            Users(uid) )

```

```

CREATE ASSERTION Same_User
CHECK (      (SELECT (A.uid) FROM Album_Owner A) !=
            (SELECT (C.uid) FROM Comments C) )

```