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Relational Schema:

```
CREATE SEQUENCE Users_user_id_seq
INCREMENT 1
MINVALUE 1
MAXVALUE 9223372036854775807
START 1
CACHE 1;

CREATE TABLE Users
(
    user_id int4 NOT NULL DEFAULT nextval('Users_user_id_seq'),
    email varchar(255) NOT NULL,
    password varchar(255) NOT NULL,
    role_name varchar(255) NOT NULL DEFAULT 'RegisteredUser',
    first_name varchar(255) NOT NULL,
    last_name varchar(255),
    hometown varchar(255),
    location varchar(255),
    title varchar(255),
    rating int NOT NULL DEFAULT 0,
    CONSTRAINT users_pk PRIMARY KEY (user_id)
);


CREATE TABLE Friends
(
    user_id int4 NOT NULL REFERENCES Users (user_id) ON DELETE CASCADE,
    friend_id int4 NOT NULL REFERENCES Users (user_id) ON DELETE CASCADE,
    PRIMARY KEY (user_id, friend_id)
);



CREATE SEQUENCE Albums_album_id_seq
INCREMENT 1
MINVALUE 1
MAXVALUE 9223372036854775807
START 1
```

```
CACHE 1;

CREATE TABLE Albums
(
    album_id int4 NOT NULL DEFAULT nextval('Albums_album_id_seq'),
    user_id int4 NOT NULL REFERENCES Users (user_id) ON DELETE CASCADE,
    album_name varchar(255) NOT NULL,
    date_created date NOT NULL,
    CONSTRAINT albums_pk PRIMARY KEY (album_id)
);


CREATE SEQUENCE Pictures_picture_id_seq
INCREMENT 1
MINVALUE 1
MAXVALUE 9223372036854775807
START 1
CACHE 1;

CREATE TABLE Pictures
(
    picture_id int4 NOT NULL DEFAULT nextval('Pictures_picture_id_seq'),
    album_id int4 NOT NULL REFERENCES Albums (album_id) ON DELETE CASCADE,
    caption varchar(255) NOT NULL,
    imgdata bytea NOT NULL,
    size int4 NOT NULL,
    content_type varchar(255) NOT NULL,
    thumbdata bytea NOT NULL,
    likes int NOT NULL DEFAULT 0,
    CONSTRAINT pictures_pk PRIMARY KEY (picture_id)
);


CREATE TABLE Tags
(
    tag varchar(255) NOT NULL,
    picture_id int4 NOT NULL REFERENCES Pictures (picture_id) ON DELETE CASCADE,
    PRIMARY KEY (tag, picture_id)
);


CREATE SEQUENCE Comments_comment_id_seq
```

```
INCREMENT 1
MINVALUE 1
MAXVALUE 9223372036854775807
START 1
CACHE 1;

CREATE TABLE Comments
(
    comment_id int4 NOT NULL DEFAULT nextval('Comments_comment_id_seq'),
    user_id int4 NOT NULL REFERENCES Users (user_id) ON DELETE CASCADE,
    picture_id int4 NOT NULL REFERENCES Pictures (picture_id) ON DELETE CASCADE,
    comment varchar(255) NOT NULL,
    date_commented date NOT NULL,
    PRIMARY KEY (comment_id)
);
```