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CS460 Project Assignment 1: Final Report

User

user-id	first-nam	last-nam	email	dob	gender	hometow	passwor
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CREATE TABLE User

(user_id INTEGER,

first_name CHAR(20) NOT NULL,

last_name CHAR(20) NOT NULL,

email CHAR(20) NOT NULL UNIQUE,

dob DATE NOT NULL,

gender CHAR(20),

hometown CHAR(20),

password CHAR(20) NOT NULL,

PRIMARY KEY (user_id));

Friends

friendship-id	friend1-id	friend2-id

CREATE TABLE Friends

(friend1_id INTEGER NOT NULL,

friend2_id INTEGER NOT NULL,

PRIMARY KEY (friend1_id, friend2_id),

FOREIGN KEY (friend1_id) REFERENCES User(user_id) ON DELETE CASCADE,

FOREIGN KEY (friend2_id) REFERENCES User(user_id) ON DELETE CASCADE,

CHECK (friend1_id <> friend2_id));

Album

album-id	name	date-of-creation	owner-id
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CREATE TABLE Album

(album_id INTEGER,

album_name CHAR(20) NOT NULL,

creation_datetime DATETIME NOT NULL,

owner_id INTEGER NOT NULL, FOREIGN KEY (owner_id) REFERENCES User(user_id) ON DELETE CASCADE, PRIMARY KEY (album_id));

Photo

photo-id	data	caption	album-id
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CREATE TABLE Photo

(photo_id INTEGER,

photo_data LONGBLOB NOT NULL,

caption CHAR(100),

album id INTEGER NOT NULL,

upload_datetime DATETIME NOT NULL,

FOREIGN KEY (album_id) REFERENCES Album(album_id) ON DELETE CASCADE,

PRIMARY KEY (photo_id));

Photo-comment

<u>comment-id</u> text date owner-id photo-id

CREATE TABLE Photo_comment

(comment_id INTEGER,

comment_text CHAR(100) NOT NULL,

comment_datetime DATETIME NOT NULL,

owner_id INTEGER NOT NULL,

photo_id INTEGER NOT NULL,

FOREIGN KEY (owner_id) REFERENCES User(user_id) ON DELETE CASCADE,

FOREIGN KEY (photo_id) REFERENCES Photo(photo_id) ON DELETE CASCADE,

PRIMARY KEY (comment_id));

Photo-like

like-id	owner-id	photo-id
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CREATE TABLE Photo like

(like_id INTEGER,

owner_id INTEGER NOT NULL,

photo_id INTEGER NOT NULL,

FOREIGN KEY (owner id) REFERENCES User(user id) ON DELETE CASCADE,

FOREIGN KEY (photo_id) REFERENCES Photo(photo_id) ON DELETE CASCADE,

PRIMARY KEY (like_id));

Tag

tag name	<u>photo id</u>

CREATE TABLE Tag
(tag_name CHAR(20) NOT NULL,
photo_id INTEGER NOT NULL,
FOREIGN KEY (photo_id) REFERENCES Photo(photo_id) ON DELETE CASCADE,
PRIMARY KEY (tag_name, photo_id));

Assumptions

- A single photo can have none or more than one tag
- Album can be empty
- Comments and likes must each be associated with exactly one user and one photo
- Photos can have zero or more likes and comments