

# CS 2300 - Project 3 Milestone 1 - Kevin Schaich (krs252)

## Database Schema:

images PRIMARY KEY (imgID)			
imgID	int(10)	NOT NULL	auto_increment
URL	varchar(100)	NOT NULL	
title	varchar(80)		
author	varchar(80)		
caption	varchar(1000)		
likes	int(10)		
fstop	varchar(10)		
shutter	varchar(10)		
ISO	int(10)		
focal	int(5)		
camera	varchar(80)		
lens	varchar(80)		
upload	timestamp	NOT NULL	DEFAULT CURRENT_TIMESTAMP

albums PRIMARY KEY (albumID)			
albumID	int(10)	NOT NULL	auto_increment
title	varchar(80)		

users PRIMARY KEY (userID)			
userID	int(10)	NOT NULL	auto_increment
username	varchar(80)		
password	varchar(80)		

tags PRIMARY KEY (tagID)			
tagID	int(10)	NOT NULL	auto_increment
tag	varchar(80)		

uploads PRIMARY KEY (imgID , userID)			
imgID	int(10)	NOT NULL	
userID	int(10)	NOT NULL	

groups PRIMARY KEY (imgID , albumID)			
imgID	int(10)	NOT NULL	
albumID	int(10)	NOT NULL	

tagged PRIMARY KEY (imgID , tagID)			
imgID	int(10)	NOT NULL	
tagID	int(10)	NOT NULL	

## SQL for Creation:

```
CREATE TABLE images (  
    imgID int(10) NOT NULL auto_increment,  
    URL varchar(100) NOT NULL,  
    title varchar(80),  
    author varchar(80),  
    caption varchar(1000),  
    likes int(10),  
    fstop varchar(10),  
    shutter varchar(10),  
    ISO int(10),  
    focal int(5),  
    camera varchar(80),  
    lens varchar(80),  
    dupload timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,  
    PRIMARY KEY (imgID)  
);  
CREATE TABLE albums (  
    albumID int(10) NOT NULL auto_increment,  
    title varchar(80),  
    PRIMARY KEY (albumID)  
);  
CREATE TABLE users (  
    userID int(10) NOT NULL auto_increment,  
    username varchar(80),  
    password varchar(80),  
    PRIMARY KEY (userID)  
);  
CREATE TABLE tags (  
    tagID int(10) NOT NULL auto_increment,  
    tag varchar(80),  
    PRIMARY KEY (tagID)  
);  
CREATE TABLE uploads (  
    imgID int(10) NOT NULL,  
    userID int(10) NOT NULL,  
    PRIMARY KEY (imgID, userID)  
);  
CREATE TABLE groups (  
    imgID int(10) NOT NULL,  
    albumID int(10) NOT NULL,  
    PRIMARY KEY (imgID, albumID)  
);  
CREATE TABLE tagged (  
    imgID int(10) NOT NULL,  
    tagID int(10) NOT NULL,  
    PRIMARY KEY (imgID, tagID)  
);
```