Relational Databases with MySQL Week 9 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: Using a text editor of your choice, write the queries that accomplishes the objectives listed below. Take screenshots of the queries and results and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document to the repository. Additionally, push an .sql file with all your queries and your ERD to the same repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

You have been asked to create a database for a new social media application that your company is developing.

The database must store user data such as username, email, password, etc...

Users are able to post and comment. So, your database must also store post and comment data.

We need to know which user made which posts.

We also need to know which user made which comments, and which post a comment is on.

Posts and comments should both include the time they were created, and what the content of the post or comment is.

Create an Entity Relationship Diagram (ERD) using draw.io to model the database you will create. Insert a screenshot of the ERD in the screenshots section below.

Write a SQL script to create the database. Insert a screenshot of the SQL in your script.

Hints:

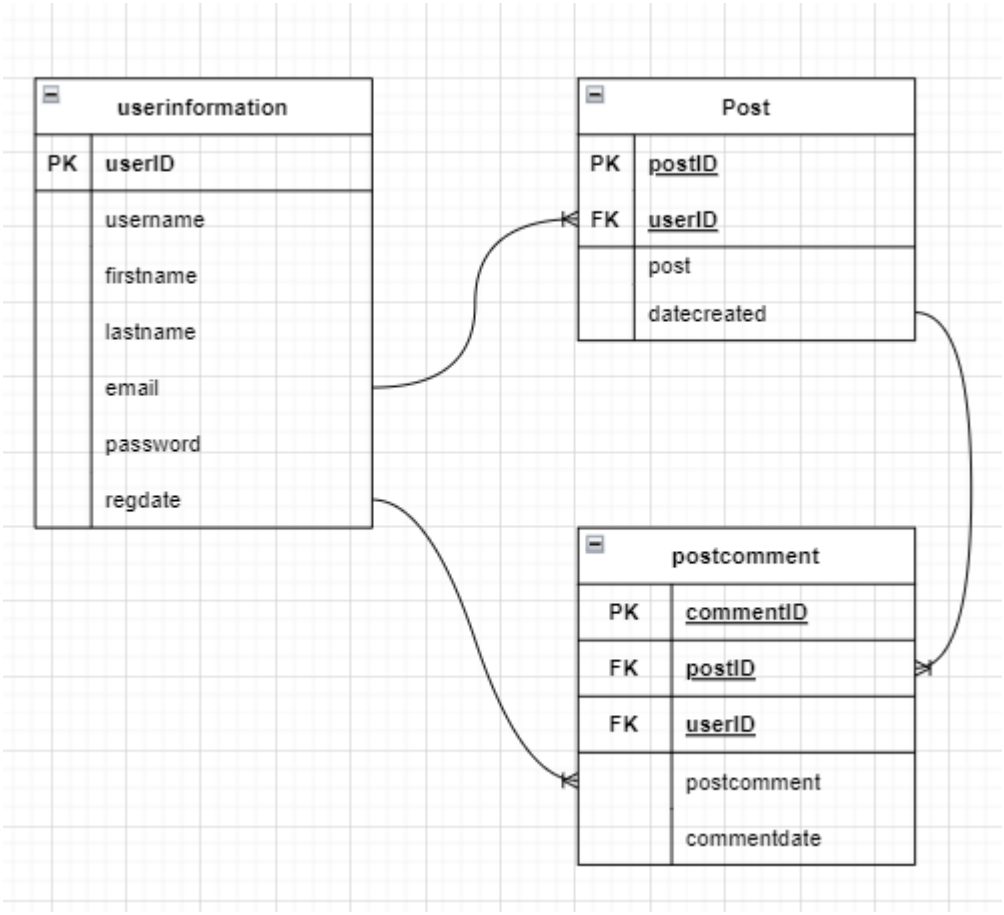
You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

Screenshots:

ERD:



```sql
CREATE DATABASE IF NOT EXISTS userinformation;

use userinformation;

DROP TABLE IF EXISTS post;
DROP TABLE IF EXISTS postcomment;
DROP TABLE IF EXISTS userinformation;

CREATE TABLE userinformation (
    userID BIGINT NOT NULL AUTO_INCREMENT,
    username VARCHAR(30) NOT NULL,
    firstname VARCHAR(20) NOT NULL,
    lastname VARCHAR(25) NOT NULL,
    email VARCHAR(50) NOT NULL,
    password VARCHAR(30) NOT NULL,
    regdate DATETIME,
    PRIMARY KEY (userID)
);

CREATE TABLE post (
    postID BIGINT NOT NULL AUTO_INCREMENT,
    userID BIGINT NOT NULL,
    post LONGTEXT NOT NULL,
    datecreated DATETIME,
    PRIMARY KEY (postID),
    FOREIGN KEY (userID) REFERENCES userinformation(userID)
);

CREATE TABLE postcomment (
    commentID BIGINT NOT NULL AUTO_INCREMENT,
    postID BIGINT NOT NULL,
    userID BIGINT NOT NULL,
    postcomment LONGTEXT NOT NULL,
    commentdate DATETIME,
    PRIMARY KEY (commentID),
    FOREIGN KEY (postID) REFERENCES post (postID),
    FOREIGN KEY (userID) REFERENCES userinformation(userID)
);

```

URL to GitHub Repository: https://github.com/KT-Trailblazer/W9-MySQLERD