Relational Databases with MySQL Week 3 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, with your Java project code, to the repository. Lastly, in the Learning Management System, click the "Add Submission" button and paste the URL to your GitHub repository.

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.

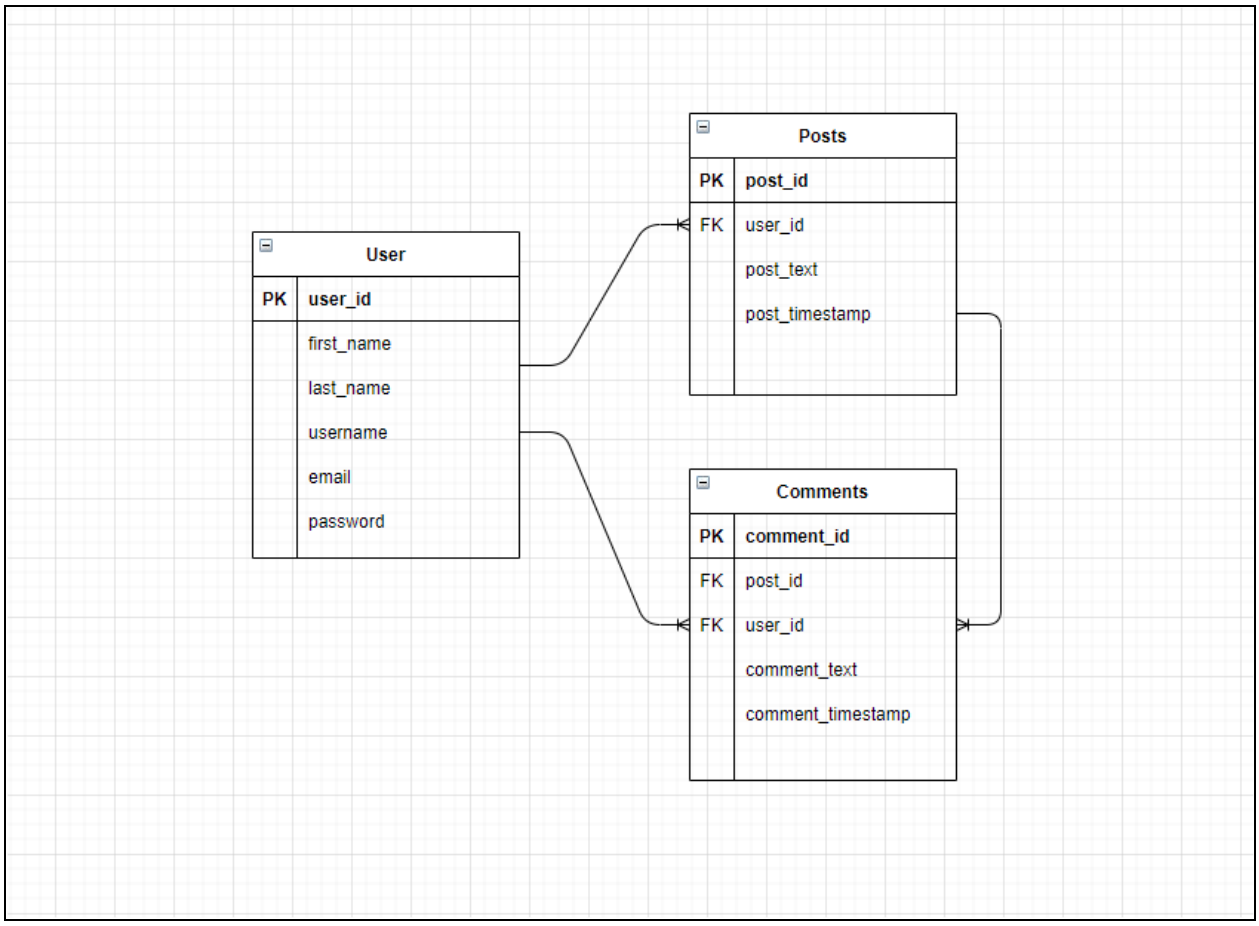
Hints:

You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

Screenshots:



```sql
DROP DATABASE IF EXISTS users_db;
CREATE DATABASE users_db;

CREATE TABLE Users(
user_id INT NOT NULL AUTO_INCREMENT,
first_name VARCHAR(20) NOT NULL,
last_name VARCHAR(20) NOT NULL,
username VARCHAR(40) NOT NULL,
email VARCHAR(40) NOT NULL,
password VARCHAR(100) NOT NULL,
PRIMARY KEY (user_id)
);
```

```sql
CREATE TABLE Posts(
post_id INT NOT NULL AUTO_INCREMENT,
user_id INT,
post_text TEXT NOT NULL,
post_timestamp TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY (post_id),
FOREIGN KEY (user_id) REFERENCES Users(user_id)
);

```

```sql
CREATE TABLE Comments(
comment_id INT NOT NULL AUTO_INCREMENT,
post_id INT,
user_id INT,
comment_text TEXT NOT NULL,
comment_timestamp TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY (comment_id),
FOREIGN KEY (post_id) REFERENCES Posts(post_id),
FOREIGN KEY (user_id) REFERENCES Users(user_id)
);
```

URL to GitHub Repository:

https://github.com/lcuevas6/week-3-sql-assigment.git