

# 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. 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:

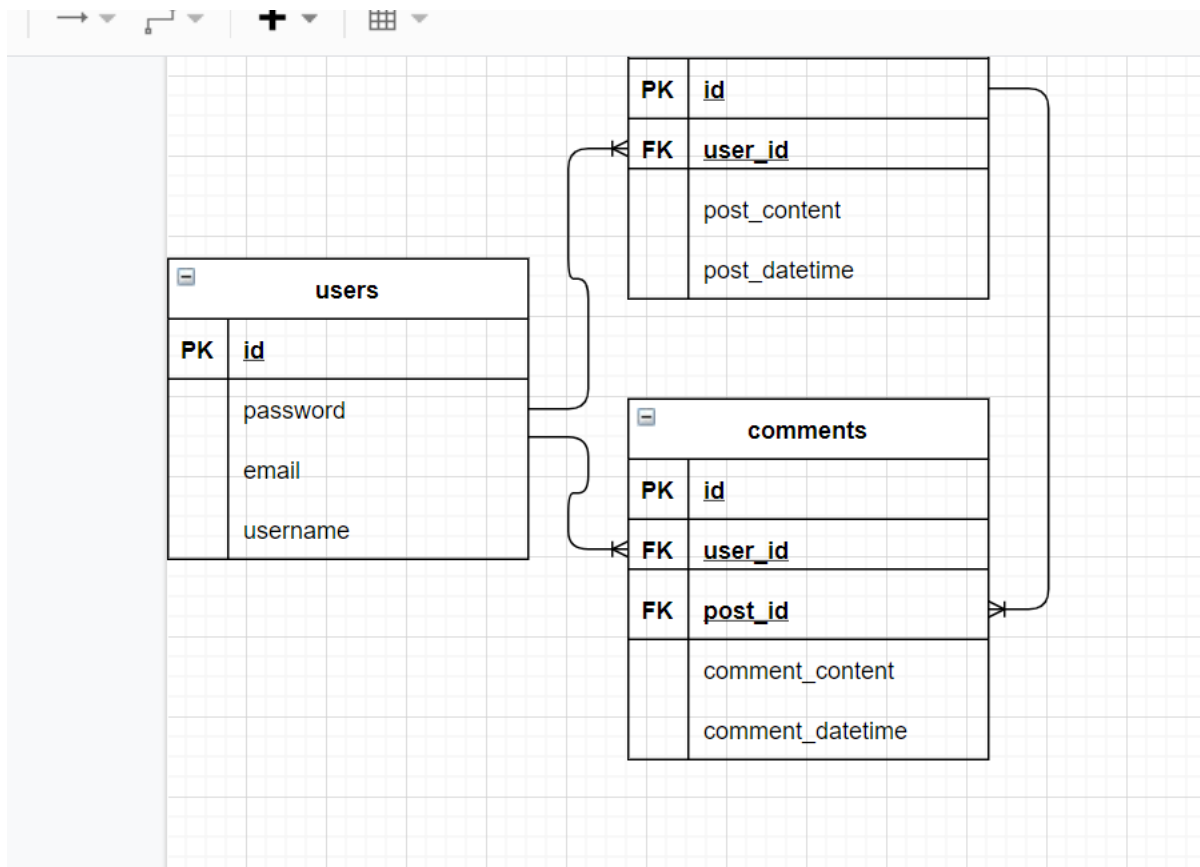
You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

### Screenshots:

### ERD:



**SCRIPT:** (sidenote: I had to remove a few returns between table creation statements to fit it all in one screenshot. Apologies in advance, I know it looks wonky)

```
create database if not exists wk3app;

use wk3app;

drop table if exists users;
drop table if exists posts;
drop table if exists comments;
|
create table users (
    id int(11) not null auto_increment,
    password varchar(20) not null,
    email varchar(40) not null,
    username varchar(30) not null,
    primary key (id)
);
create table posts (
    id int (11) not null auto_increment,
    user_id int(11) not null,
    post_content varchar(140) not null,
    post_datetime datetime,
    primary key (id),
    foreign key (user_id) references users(id)
);
create table comments (
    id int(11) not null auto_increment,
    user_id int(11) not null,
    post_id int(11) not null,
    comment_content varchar(140) not null,
    comment_datetime datetime,
    primary key (id),
    foreign key (user_id) references users(id),
    foreign key (post_id) references posts(id)
);
```

**URL to GitHub Repository:**

<https://github.com/wlindstrom55/MYSQL-wk3-codingassignment>