

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:

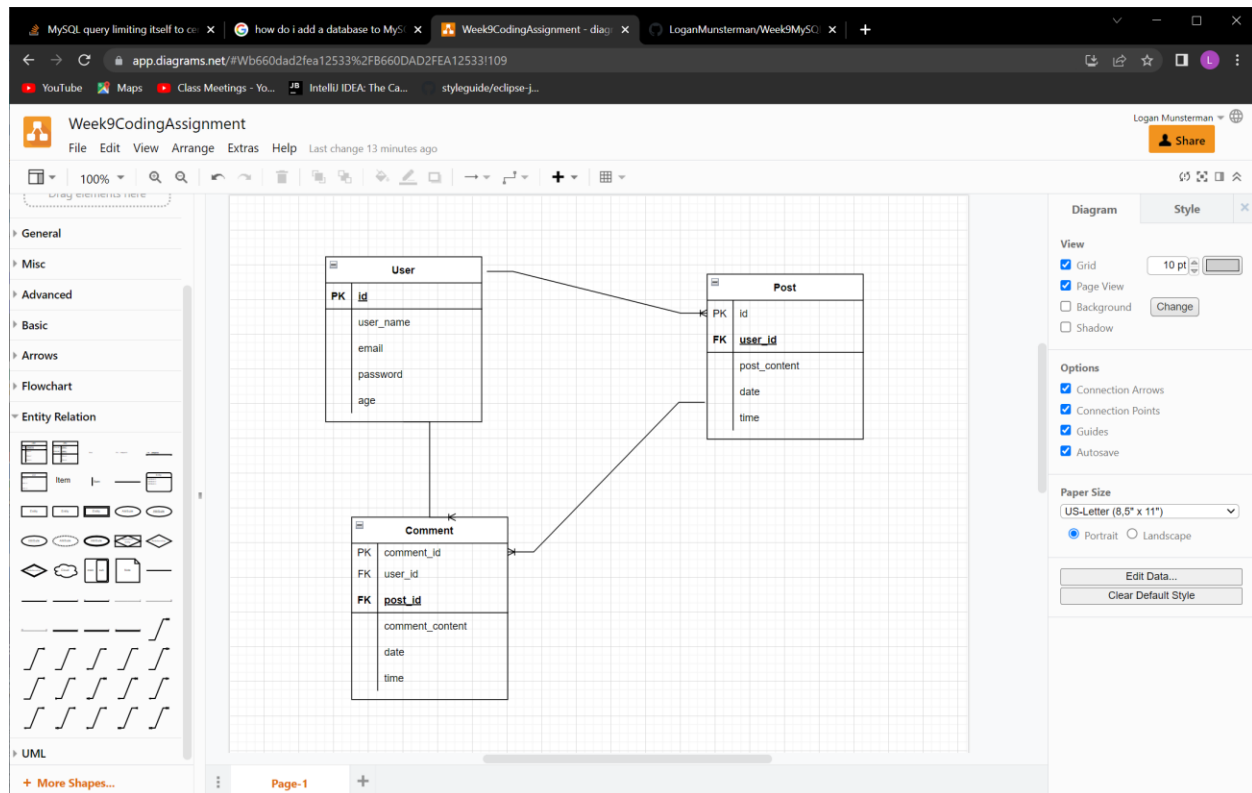
The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with a filter on 'week9codingassignment'. The main editor shows a SQL script with the following commands:

```
1 • CREATE DATABASE IF NOT EXISTS Week9CodingAssignment;
2 • USE Week9CodingAssignment;
3
4 • DROP TABLE IF EXISTS post;
5 • DROP TABLE IF EXISTS comment;
6 • DROP TABLE IF EXISTS user;
7
8 • CREATE TABLE user(
9     id INT(11) NOT NULL AUTO_INCREMENT,
10    user_name VARCHAR(15) NOT NULL,
11    email VARCHAR(40) NOT NULL,
12    password VARCHAR(15) NOT NULL,
13    age INT(3),
14    PRIMARY KEY (id)
15 );
16 • CREATE TABLE post (
17     id INT(99) NOT NULL AUTO_INCREMENT,
18     user_id INT(11) NOT NULL,
19     post_content VARCHAR(5000) NOT NULL,
20     time_posted DATETIME DEFAULT CURRENT_TIMESTAMP,
21     PRIMARY KEY (id),
22     FOREIGN KEY (user_id) REFERENCES user(id)
23 );
24 • CREATE TABLE comment (
25     id INT(99) NOT NULL AUTO_INCREMENT,
26     user_id INT(11) NOT NULL,
27     post_id INT(99) NOT NULL,
28     comment_content VARCHAR(3000) NOT NULL,
29     time_posted DATETIME DEFAULT CURRENT_TIMESTAMP,
30     PRIMARY KEY (id),
31     FOREIGN KEY (user_id) REFERENCES user(id),
32     FOREIGN KEY (post_id) REFERENCES post(id)
33 );
34
35
36
```

The bottom-left pane shows the 'Table: post' structure:

Columns:	
id	int AI PK
user_id	int
post_content	varchar(5000)
time_posted	datetime

The bottom-right pane shows a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'



URL to GitHub Repository:

<https://github.com/LoganMunsterman/Week9MySQLCodingAssignment>