

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.

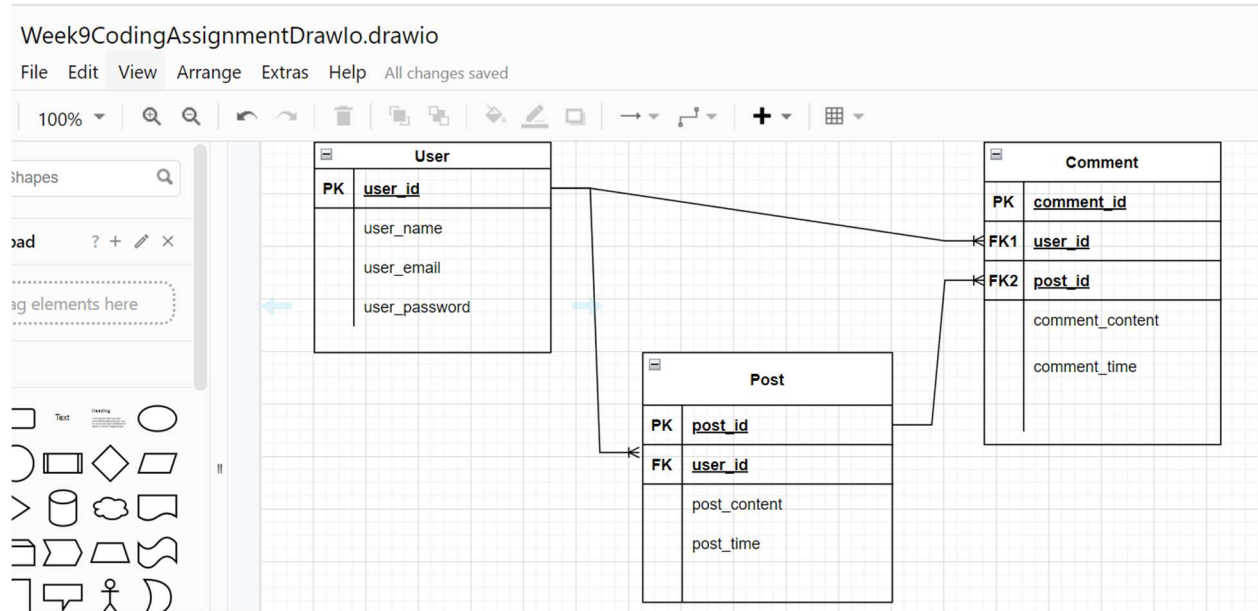
Hints:

You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

Screenshots:



MySQL Workbench

local x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- employees
- myrecipes
- social_media_application
 - Tables
 - comments
 - Columns
 - comment_id
 - user_id
 - post_id
 - comment_content
 - comment_time
 - Indexes
 - Foreign Keys
 - Triggers
 - posts
 - Columns
 - post_id
 - user_id
 - post_content
 - post_time
 - Indexes
 - Foreign Keys
 - Triggers
 - users
 - Columns
 - user_id
 - user_name
 - user_email
 - user_password
 - Indexes
 - Foreign Keys
 - Triggers

Administration Schemas

Information

Table: comments

Columns:

| | |
|-----------------|---------------|
| comment_id | int AI PK |
| user_id | int |
| post_id | int |
| comment_content | varchar(1000) |
| comment_time | timestamp |

Object Info Session

Week9CodingAssignment

1 CREATE DATABASE IF NOT EXISTS social_media_application;

2 USE social_media_application;

3

4 DROP TABLE IF EXISTS comments;

5 DROP TABLE IF EXISTS posts;

6 DROP TABLE IF EXISTS users;

7

8 CREATE TABLE users(

9 user_id INT NOT NULL AUTO_INCREMENT,

10 user_name VARCHAR(30) NOT NULL,

11 user_email VARCHAR(50) NOT NULL,

12 user_password VARCHAR(12) NOT NULL,

13 PRIMARY KEY(user_id)

14);

15

16 CREATE TABLE posts(

17 post_id INT NOT NULL AUTO_INCREMENT,

18 user_id INT NOT NULL,

19 post_content VARCHAR(1000),

20 post_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP NOT NULL,

21 PRIMARY KEY(post_id),

22 FOREIGN KEY(user_id) REFERENCES users(user_id)

23);

24

25 CREATE TABLE comments(

26 comment_id INT NOT NULL AUTO_INCREMENT,

27 user_id INT NOT NULL,

28 post_id INT NOT NULL,

29 comment_content VARCHAR(1000),

30 comment_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP NOT NULL,

31 PRIMARY KEY(comment_id),

32 FOREIGN KEY(user_id) REFERENCES users(user_id),

33 FOREIGN KEY(post_id) REFERENCES posts(post_id)

34);

Output

Action Output

| # | Time | Action | Message |
|----|----------|--|-------------------|
| 87 | 23:03:07 | CREATE TABLE posts(post_id INT NOT NULL AUTO_INCREMENT, user_id INT NOT NULL, post_content VARCHAR(1000), post_time TIMES... | 0 row(s) affected |
| 88 | 23:03:07 | CREATE TABLE comments(comment_id INT NOT NULL AUTO_INCREMENT, user_id INT NOT NULL, post_id INT NOT NULL, comment_co... | 0 row(s) affected |

URL to GitHub Repository:

<https://github.com/HaroldLujan/Week9CodingAssignment.git>