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.

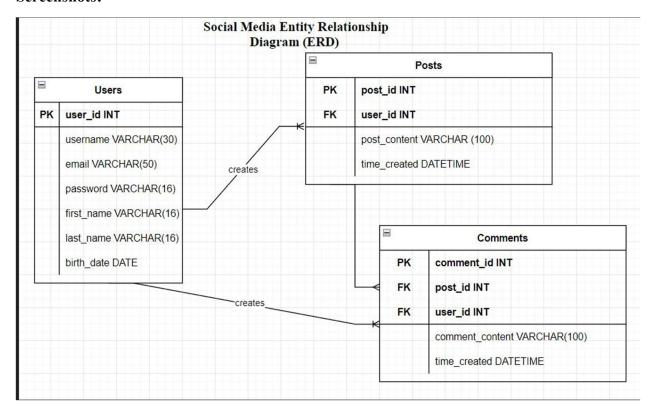
Hints:

You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

Screenshots:

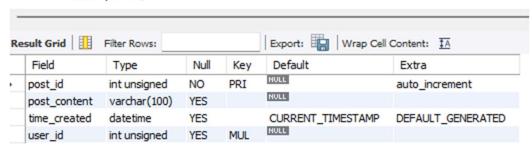


```
CREATE DATABASE IF NOT EXISTS socialMedia;
1 •
 2 • USE socialMedia;
 3
4 ● ⊖ CREATE TABLE IF NOT EXISTS Users (
       user_id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
 5
6
       username VARCHAR(30) NOT NULL UNIQUE,
 7
      email VARCHAR(50),
8
       password VARCHAR(16) NOT NULL,
      first_name VARCHAR(16),
9
       last_name VARCHAR(16),
10
     birth_date DATE);
11
12
13 • ⊖ CREATE TABLE IF NOT EXISTS Posts (
14
           post_id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
15
           post_content VARCHAR(100),
           time created DATETIME DEFAULT CURRENT TIMESTAMP,
16
17
           user id INT UNSIGNED,
18
           FOREIGN KEY (user id) REFERENCES Users(user id)
     );
19
20
21 • 

CREATE TABLE IF NOT EXISTS Comments (
           comment_id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
22
23
          comment_content VARCHAR(100),
          time created DATETIME DEFAULT CURRENT TIMESTAMP,
24
25
          user_id INT UNSIGNED,
           post id INT UNSIGNED,
26
           FOREIGN KEY (user_id) REFERENCES Users(user_id),
27
           FOREIGN KEY (post_id) REFERENCES Posts(post_id)
28
29
       );
30
31 •
       SHOW TABLES;
32
33 •
     DESC comments;
34 •
     DESC users;
35 • DESC posts;
36
```

```
31 •
           SHOW TABLES;
  32
  33 •
           DESC comments;
           DESC users;
  34 •
           DESC posts;
  35 •
  36
Result Grid Filter Rows:
                                             Export:
    Tables_in_socialmedia
   comments
    posts
    users
 31 •
          SHOW TABLES;
 32
 33 •
          DESC comments;
 34 •
          DESC users;
          DESC posts;
 35 •
 36
                                            Export: Wrap Cell Content: IA
Result Grid Filter Rows:
   Field
                     Type
                                   Null
                                          Key
                                                 Default
                                                                        Extra
                                                NULL
                                          PRI
   comment_id
                     int unsigned
                                   NO
                                                                       auto_increment
                                                NULL
   comment_content
                    varchar(100)
                                  YES
                                                 CURRENT_TIMESTAMP
   time_created
                     datetime
                                   YES
                                                                       DEFAULT_GENERATED
                                   YES
   user_id
                     int unsigned
                                          MUL
                                                NULL
                                   YES
                                          MUL
  post_id
                     int unsigned
  34 •
           DESC users;
                                             Export: Wrap Cell Content: IA
 Result Grid Filter Rows:
    Field
                Type
                             Null
                                           Default
                                                    Extra
                                    Key
                                          NULL
    user_id
                int unsigned
                                    PRI
                                                    auto_increment
                             NO
                                          NULL
    username
                varchar(30)
                             NO
                                    UNI
                                          NULL
    email
                varchar(50)
                             YES
                                          NULL
    password
                varchar(16)
                             NO
                                          NULL
    first_name
                varchar(16)
                             YES
                                          NULL
    last_name
                varchar(16)
                             YES
                                          NULL
    birth_date
                date
                             YES
```

35 • DESC posts;



URL to GitHub Repository:

https://github.com/ailimutan/week9 mysql