

# Relational Databases with MySQL Week 9 Coding Assignment

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**Points possible:** 70

Category	Criteria	% of Grade
<b>Functionality</b>	Does the code work?	25
<b>Organization</b>	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
<b>Creativity</b>	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
<b>Completeness</b>	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.

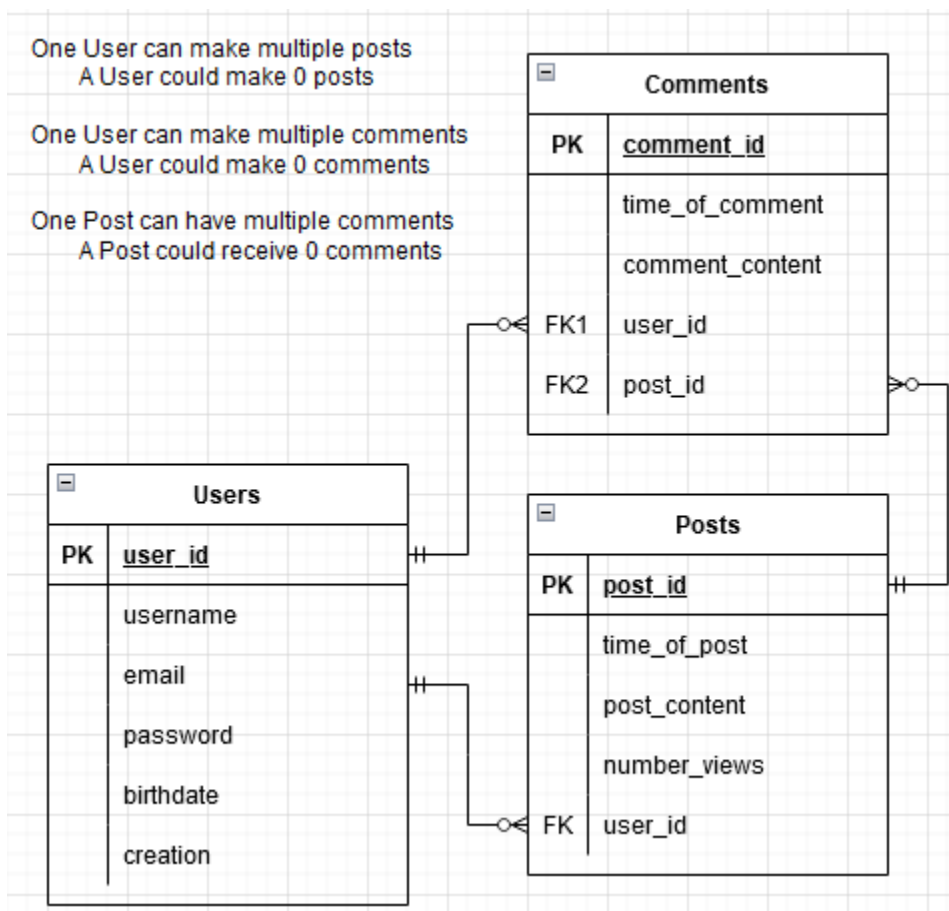
Hints:

You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

### Screenshots:



```
1 • create database if not exists socialmedia_project9;
2 • use socialmedia_project9;
3   drop table if exists posts;
4 • drop table if exists users;
5 • drop table if exists comments;
6
7 • create table users (
8     user_id int not null auto_increment,
9     username varchar(20) not null,
10    email   varchar(60) not null,
11    password varchar(30) not null,
12    birth_date date not null,
13    creation datetime not null,
14    primary key (user_id)
15 );
16
17 • create table posts (
18     post_id int not null auto_increment,
19     time_of_post datetime not null,
20     message_content tinytext not null,
21     number_views int(8) not null,
22     user_id int not null,
23     primary key (post_id),
24     foreign key (user_id) references users (user_id)
25 );
26
27 • create table comments (
28     comment_id int not null auto_increment,
29     time_of_comment datetime not null,
30     comment_content tinytext not null,
31     user_id int not null,
32     post_id int not null,
33     primary key (comment_id),
34     foreign key (user_id) references users (user_id),
35     foreign key (post_id) references posts (post_id)
36 );
```

```
mysql> show databases;
```

Database
employees
information_schema
mysql
performance_schema
sakila
socialmedia_project9
sys
world

```
8 rows in set (0.00 sec)
```

```
mysql> show tables;
```

Tables_in_socialmedia_project9
comments
posts
users

```
3 rows in set (0.01 sec)
```

```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
username	varchar(20)	NO		NULL	
email	varchar(60)	NO		NULL	
password	varchar(30)	NO		NULL	
birth_date	date	NO		NULL	
creation	datetime	NO		NULL	

```
6 rows in set (0.01 sec)
```

```
mysql> desc posts;
```

Field	Type	Null	Key	Default	Extra
post_id	int	NO	PRI	NULL	auto_increment
time_of_post	datetime	NO		NULL	
message_content	tinytext	NO		NULL	
number_views	int	NO		NULL	
user_id	int	NO	MUL	NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> desc comments;
```

Field	Type	Null	Key	Default	Extra
comment_id	int	NO	PRI	NULL	auto_increment
time_of_comment	datetime	NO		NULL	
comment_content	tinytext	NO		NULL	
user_id	int	NO	MUL	NULL	
post_id	int	NO	MUL	NULL	

```
5 rows in set (0.00 sec)
```

**URL to GitHub Repository:**

[https://github.com/tylerjlivermore/Week9\\_MySQL\\_CreateDatabase](https://github.com/tylerjlivermore/Week9_MySQL_CreateDatabase)