

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.

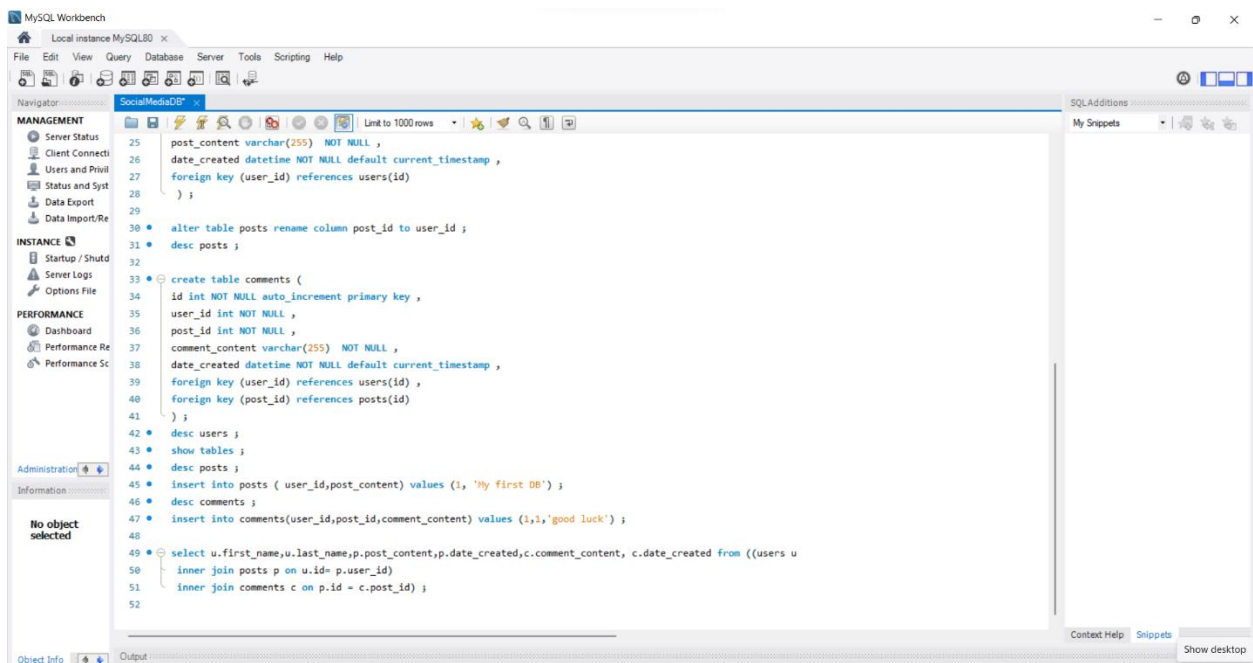
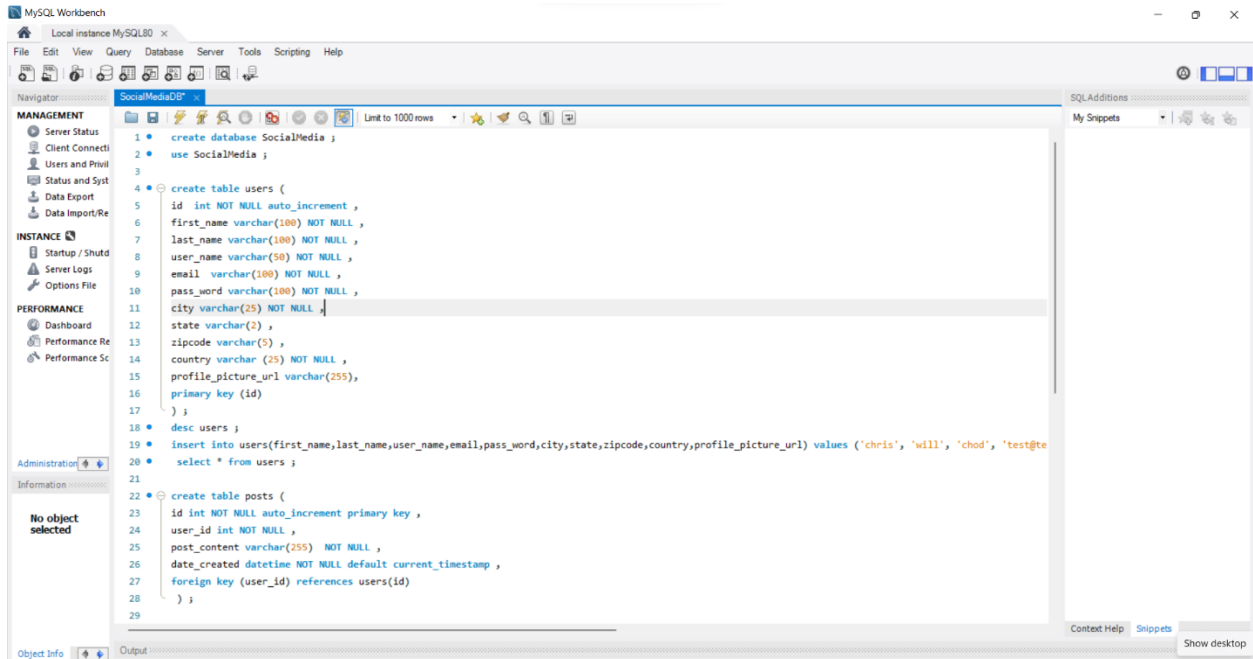
Hints:

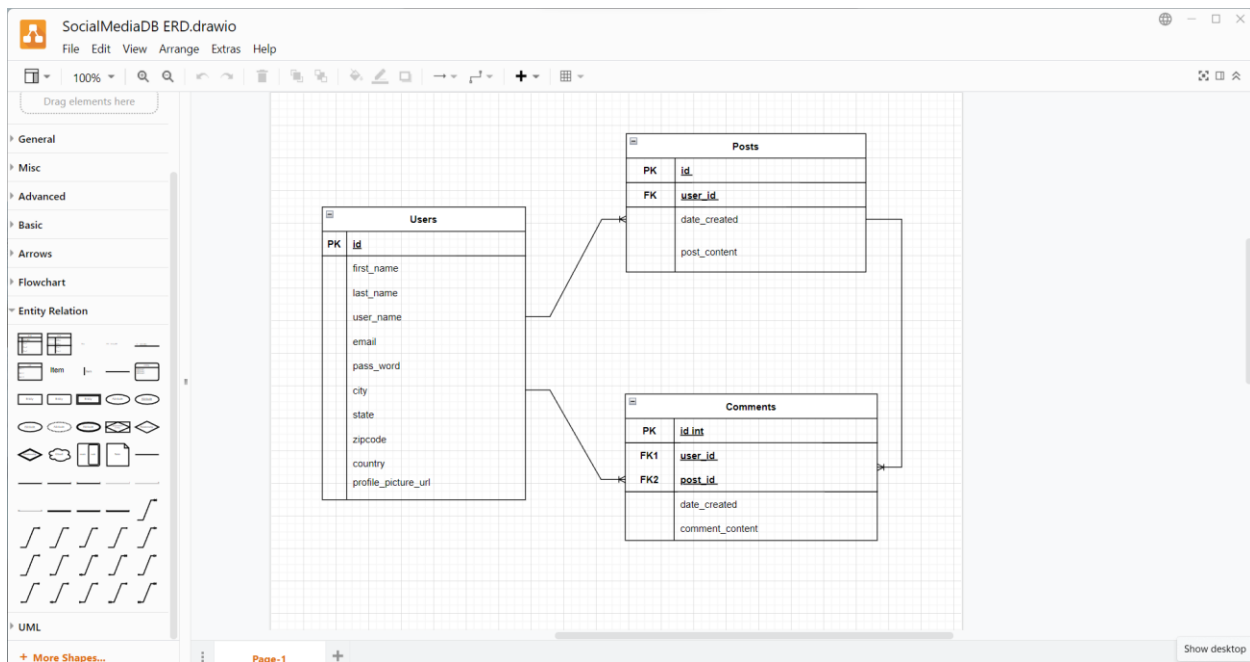
You will only need three tables.

Two tables will have foreign key references.

One table will have two foreign key references.

Screenshots:





The screenshot shows the MySQL Workbench interface with a SQL query executed. The query is as follows:

```

43  ) ;
44  desc users ;
45  show tables ;
46  desc posts ;
47  insert into posts ( user_id,post_content) values (1, 'My first DB') ;
48  desc comments ;
49  insert into comments(user_id,post_id,comment_content) values (1,1,'good luck') ;
50
51  select u.first_name,u.last_name,p.post_content,p.date_created,c.comment_content, c.date_created from ((users u
52  inner join posts p on u.id= p.user_id)
53  inner join comments c on p.id = c.post_id) ;
54

```

The output shows the results of the queries, including the execution of the insert statements and the final select query. The output is as follows:

#	Time	Action	Message	Duration / Fetch
1	15:47:56	create database SocialMedia	1 row(s) affected	0.015 sec
2	15:47:58	use SocialMedia	0 row(s) affected	0.015 sec
3	15:48:32	create table users (id int NOT NULL auto_increment , first_name varchar(100) NOT NULL , last_name varchar(100) N...	0 row(s) affected	0.031 sec
4	15:49:26	insert into users(first_name,last_name,user_name,email,pass_word,city,state,zipcode,country,profile_picture_url) values ...	1 row(s) affected	0.016 sec
5	15:49:41	select * from users LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
6	15:49:59	create table posts (id int NOT NULL auto_increment primary key , user_id int NOT NULL , post_content varchar(255) ...	0 row(s) affected	0.047 sec
7	15:50:30	desc posts	4 row(s) returned	0.015 sec / 0.000 sec
8	15:51:22	create table comments (id int NOT NULL auto_increment primary key , user_id int NOT NULL , post_id int NOT NULL ...	0 row(s) affected	0.047 sec
9	15:51:37	desc users	11 row(s) returned	0.000 sec / 0.000 sec
10	15:51:51	show tables	3 row(s) returned	0.000 sec / 0.000 sec
11	15:52:32	desc posts	4 row(s) returned	0.016 sec / 0.000 sec
12	15:53:46	insert into posts (user_id,post_content) values (1, 'My first DB')	1 row(s) affected	0.031 sec
13	15:54:06	show tables	3 row(s) returned	0.031 sec / 0.000 sec
14	15:54:26	desc comments	5 row(s) returned	0.031 sec
15	15:56:26	insert into comments(user_id,post_id,comment_content) values (1,1,'good luck')	1 row(s) affected	0.015 sec

URL to GitHub Repository:

<https://github.com/cel90/Creating-a-Database-Relational-Databases-with-MySQL-Week-9-Coding-Assignment>