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. Untitled Diagram.drawio

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.

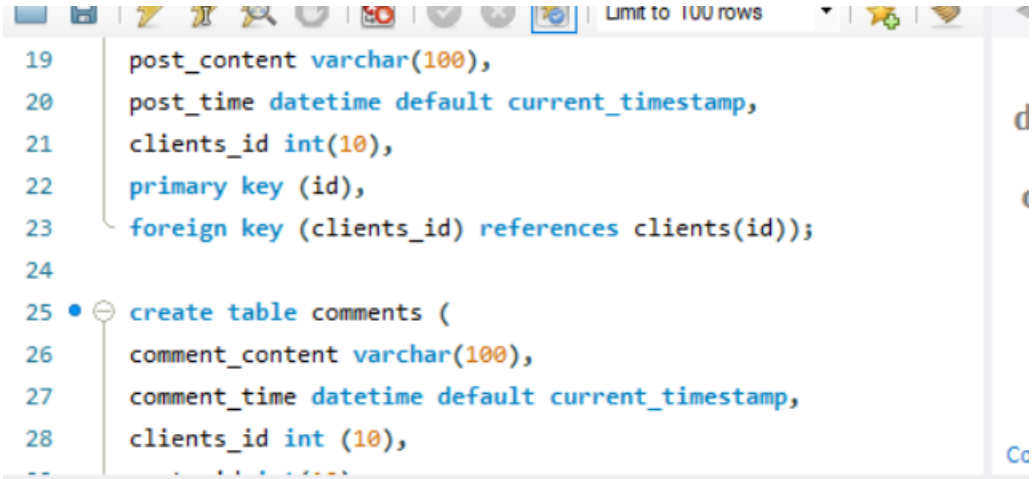
Two tables will have foreign key references.

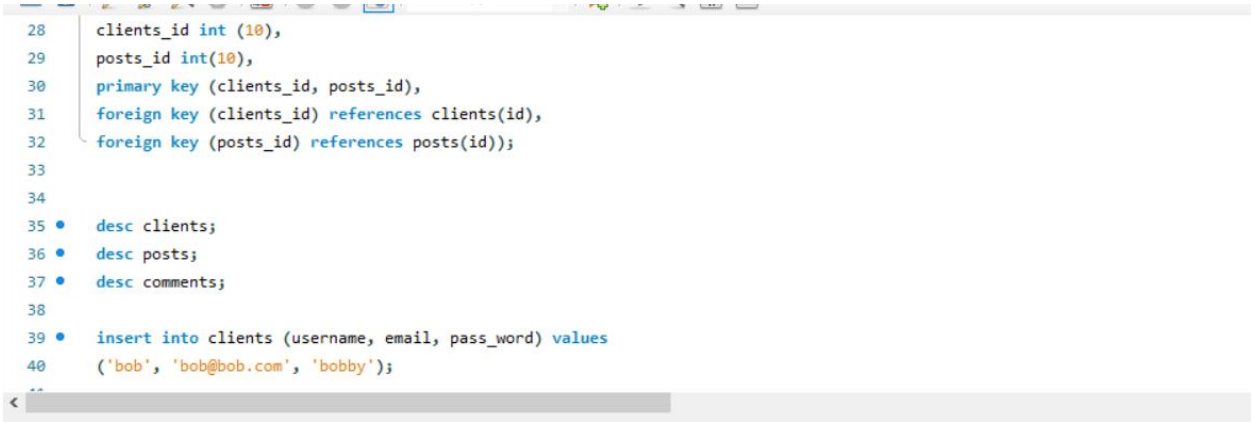
One table will have two foreign key references.

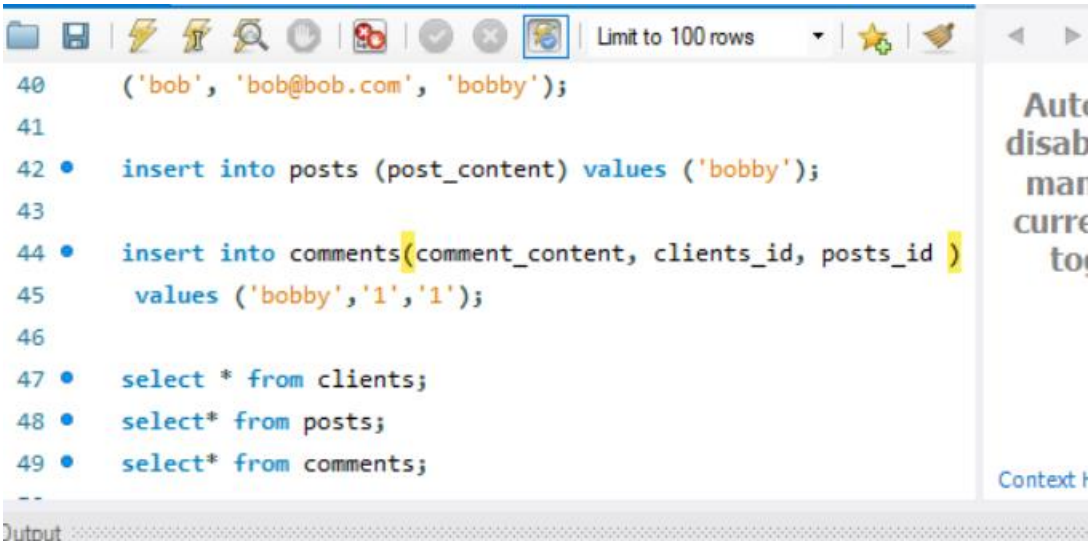
Screenshots:

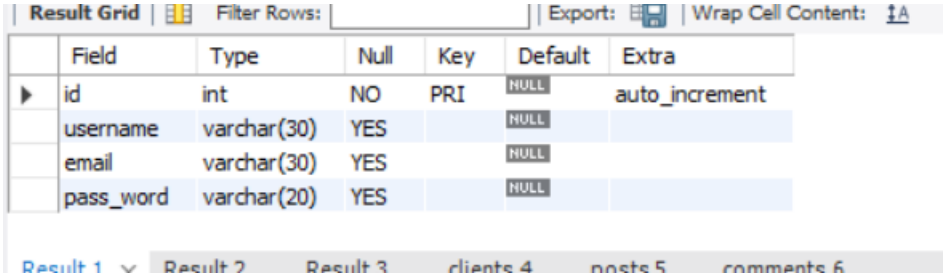
```
1  create database if not exists socialmedia;
2
3  use socialmedia;
4
5  drop table if exists comments;
6  drop table if exists posts;
7  drop table if exists clients;
8
9
10 Create table clients(
```

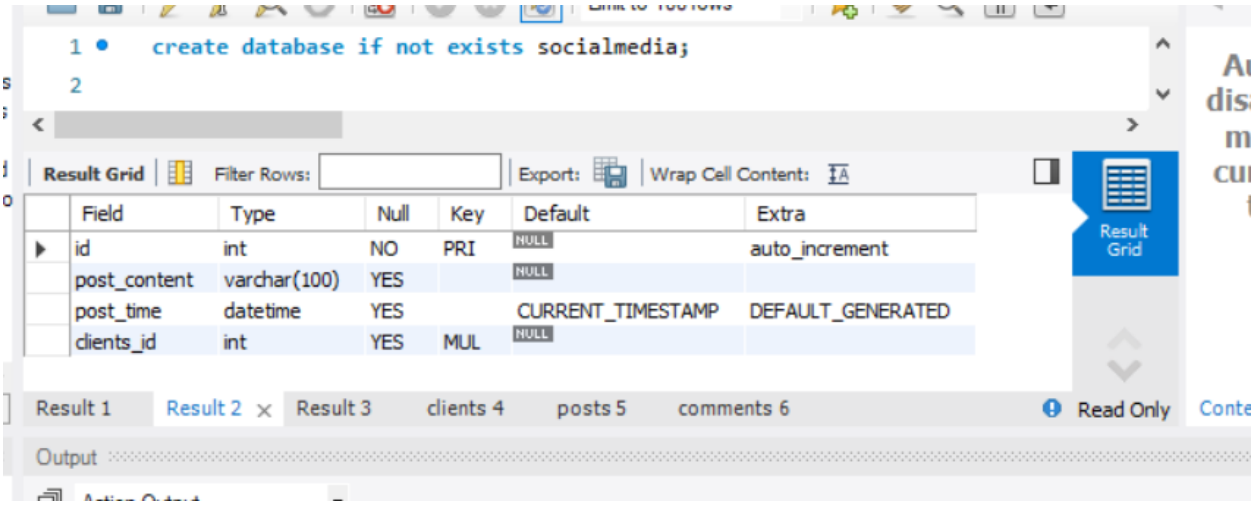
```
10 Create table clients(
11 id int (10) not null auto_increment,
12 username varchar(30),
13 email varchar(30),
14 pass_word varchar(20),
15 primary key (id));
16
17 create table posts(
18 id int(10) not null auto_increment,
19 post_content varchar(100),
```

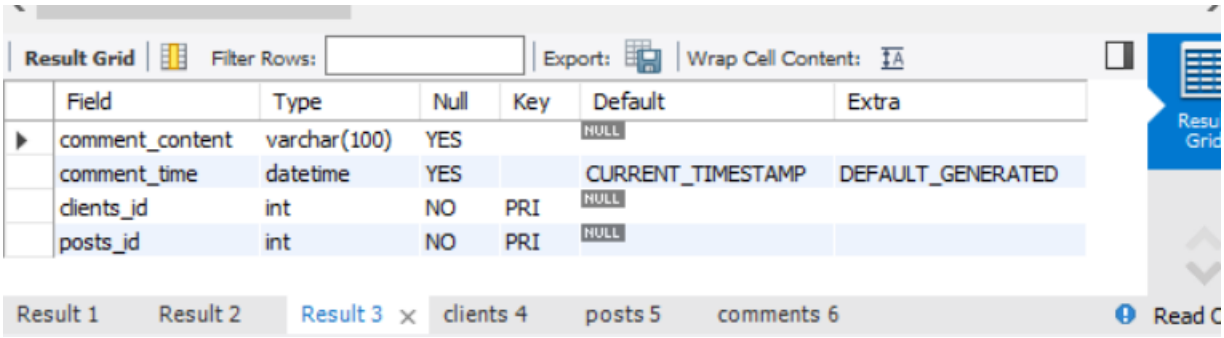

Limit to 100 rows
post_content varchar(100),
post_time datetime default current_timestamp,
clients_id int(10),
primary key (id),
foreign key (clients_id) references clients(id));
create table comments (
comment_content varchar(100),
comment_time datetime default current_timestamp,
clients_id int (10),
Output

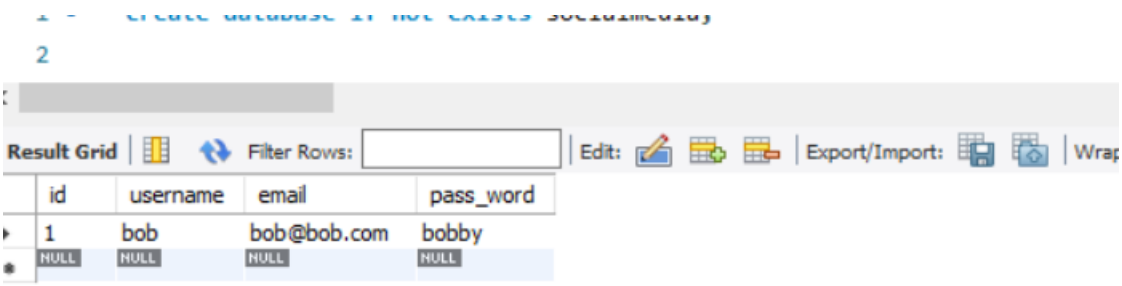

clients_id int (10),
posts_id int(10),
primary key (clients_id, posts_id),
foreign key (clients_id) references clients(id),
foreign key (posts_id) references posts(id));
desc clients;
desc posts;
desc comments;
insert into clients (username, email, pass_word) values
('bob', 'bob@bob.com', 'bobby');


Limit to 100 rows
('bob', 'bob@bob.com', 'bobby');
insert into posts (post_content) values ('bobby');
insert into comments(comment_content, clients_id, posts_id)
values ('bobby','1','1');
select * from clients;
select* from posts;
select* from comments;
Output


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Field
Type
Null
Key
Default
Extra
id
int
NO
PRI
NULL
auto_increment
username
varchar(30)
YES
NULL
email
varchar(30)
YES
NULL
pass_word
varchar(20)
YES
NULL
Result 1
Result 2
Result 3
clients 4
posts 5
comments 6

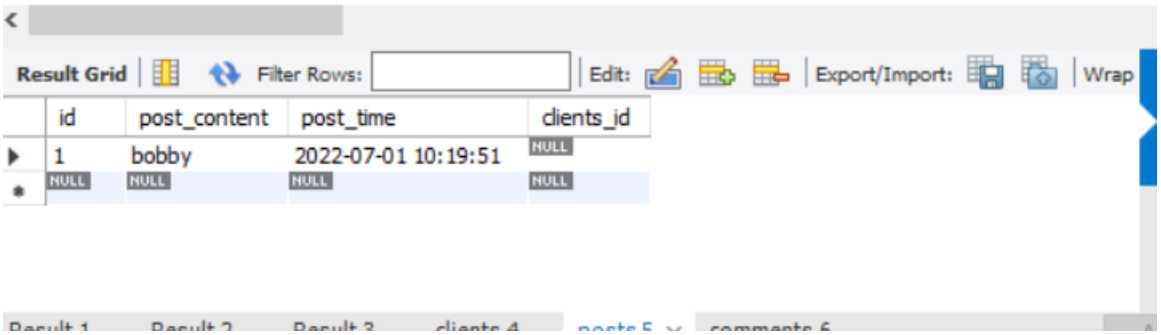

1 create database if not exists socialmedia;
2
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Field
Type
Null
Key
Default
Extra
id
int
NO
PRI
NULL
auto_increment
post_content
varchar(100)
YES
NULL
post_time
datetime
YES
CURRENT_TIMESTAMP
DEFAULT_GENERATED
clients_id
int
YES
MUL
NULL
Result 1
Result 2
Result 3
clients 4
posts 5
comments 6
Read Only
Output

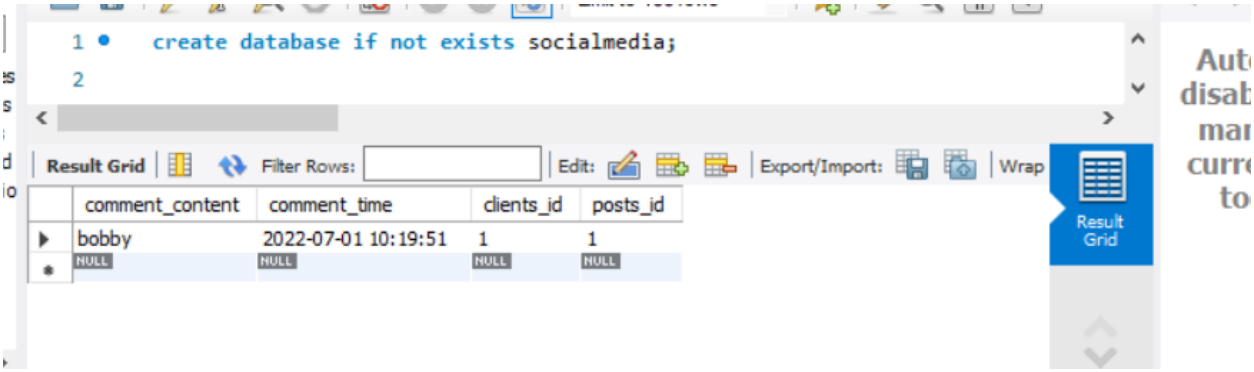

Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Field
Type
Null
Key
Default
Extra
comment_content
varchar(100)
YES
NULL
comment_time
datetime
YES
CURRENT_TIMESTAMP
DEFAULT_GENERATED
clients_id
int
NO
PRI
NULL
posts_id
int
NO
PRI
NULL
Result 1
Result 2
Result 3
clients 4
posts 5
comments 6

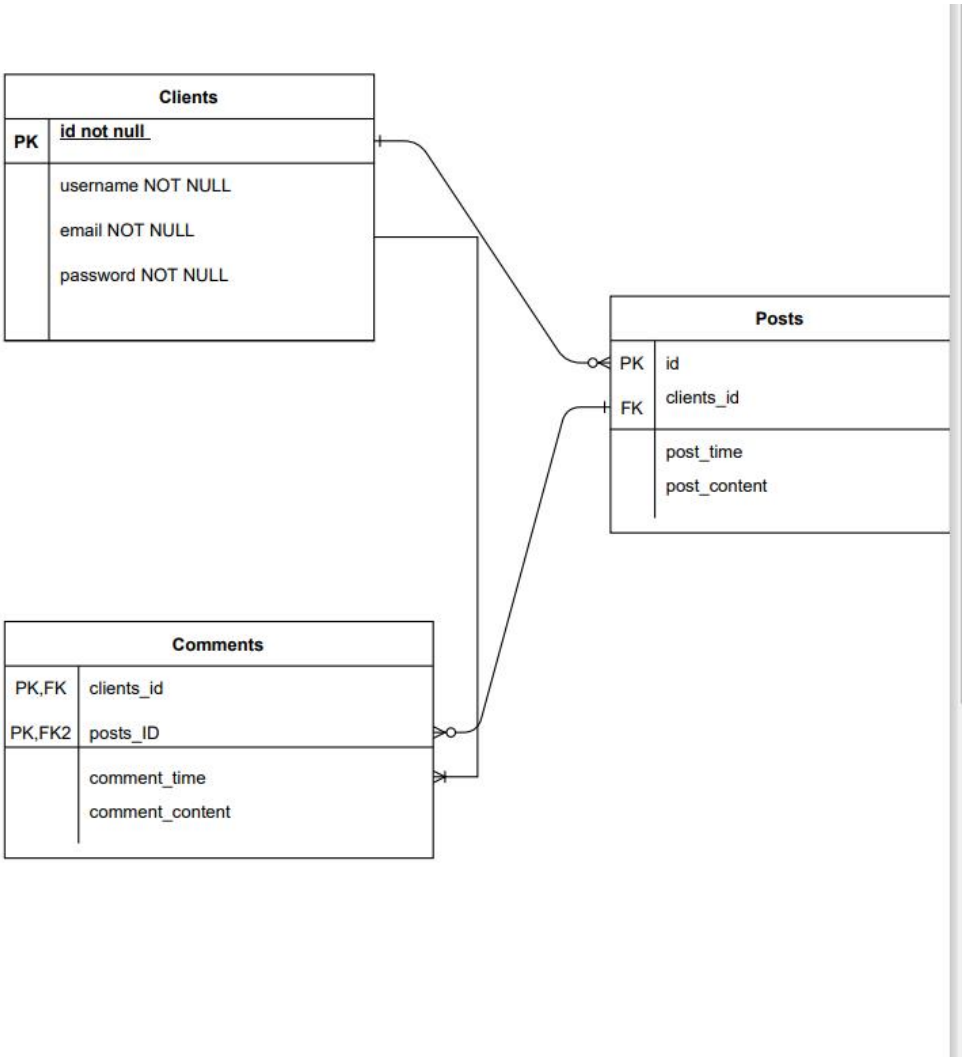

2
Result Grid
Filter Rows:
Edit:
Export/Import:
id
username
email
pass_word
1
bob
bob@bob.com
bobby
NULL


Result 1
Result 2
Result 3
clients 4
posts 5
comments 6

2


Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap
id
post_content
post_time
clients_id
1
bobby
2022-07-01 10:19:51
NULL


1 create database if not exists socialmedia;
2
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap
comment_content
comment_time
clients_id
posts_id
bobby
2022-07-01 10:19:51
1
1
NULL
Result Grid



URL to GitHub Repository

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