FINAL Exam: DATABASE

WEP 2024
{3h 00}
25 JAN 2023

RULES:

- Chatting and talking to other students is forbidden
- You are allowed to use PhpMyAdmin or VSCode or any other software. But it is not required

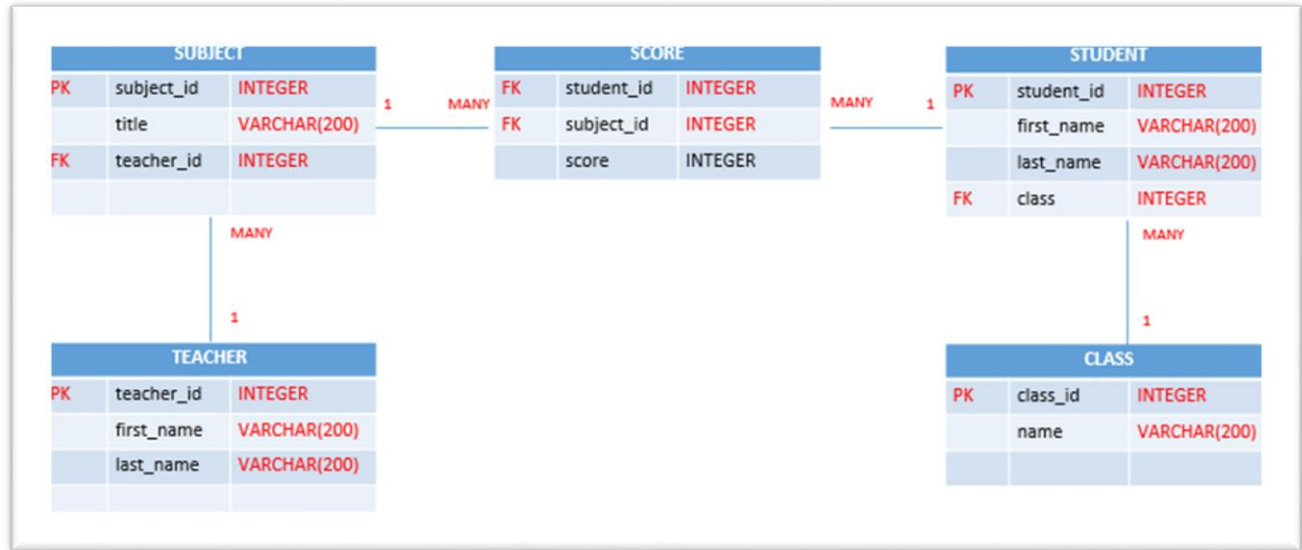- Write (copy/paste) your answer below the question. Do not screenshot.

HOW DO I SUBMIT THE EXAM?
- Save this document as a yourfullname.PDF file
- In Google Classroom, attach this file to submit.

EXERCISES	POINTS
THOERYS	20
EXERCISE 1	20
EXERCISE 2	20
EXERCISE 3	20
EXERCISE 4	20
EXERCISE 5	20
TOTAL	**100**

I. Exercise 03 (20 points) Basic SQL Query

Write SQL query to create tables that have in Entity Relational Diagram (ERD) below:

Your Query:

TABLE TEACHERS:

create table teachers (teacher_id int primary key,first_name varchar(200),last_name varchar(200));

TABLE SUBJECTS:

create table subjects (subject_id int primary key,title varchar(200),teacher_id int, foreign key (teacher_id) references teachers(teacher_id));

TABLE CLASS:

create table classes(class_id int primary key, name varchar(200));
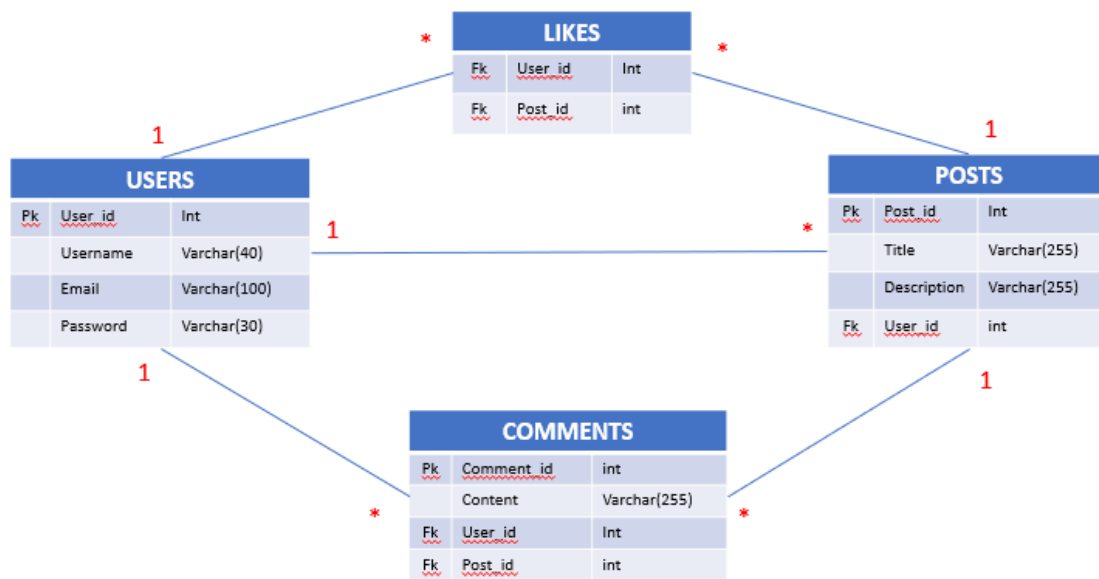

TABLES STUDENTS:

create table students (student_id int primary key, fist_name varchar(200),last_name varchar(200),class_id int, foreign key (class_id) references classes(class_id));

TABLE SCORES:

create table scores(student_id int,subject_id int,score int,foreign key (student_id) references students(student_id),foreign key (subject_id) references subjects(subject_id));

II.   Exercise 04 (20 points) SQL Query Select

Important: *Import database name "database_final_exam.sql" into your databasae.*

LIKES		
Fk	User_id	Int
Fk	Post_id	int

USERS		
Pk	User_id	Int
	Username	Varchar(40)
	Email	Varchar(100)
	Password	Varchar(30)

POSTS		
Pk	Post_id	Int
	Title	Varchar(255)
	Description	Varchar(255)
Fk	User_id	int

COMMENTS		
Pk	Comment_id	int
	Content	Varchar(255)
Fk	User_id	Int
Fk	Post_id	int

Q1 – (10 POINTS): Write a SQL statement to display all POSTS for the user named "**Rady Y**"
Expected result:

```
+---------------+----------------------------------------+
| title         | description                            |
+---------------+----------------------------------------+
| Play football | Joining the match with my students     |
| Fishing day!  | I when to my hometown this weekend     |
+---------------+----------------------------------------+
```

Your Query:

SELECT title,description FROM posts WHERE post_id = 2 AND post_id = 4;

Q2 – (10 POINTS): Write a SQL statement to display the username of who likes on many posts.

Expected result:

```
+----------+------------------+
| username | number of likes  |
+----------+------------------+
| Him HEY  |                3 |
+----------+------------------+
```

Your Query:

SELECT username FROM users
 as number_of_likes
 inner join likes on users.user_id = likes.user_id
 inner join posts on users.post_id = posts.user_id
 where user_id = 4;