**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.

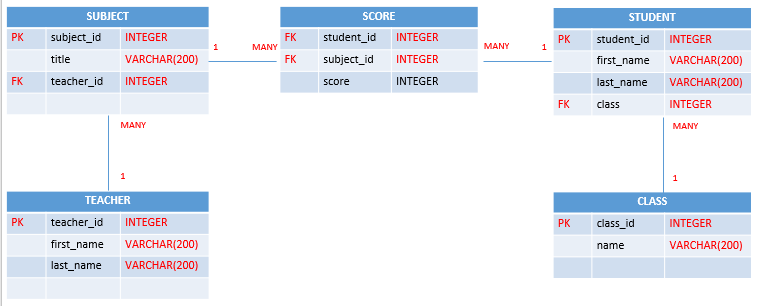
**HOW DO I SUBMIT THE EXAM?**

* 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** |

# Exercise 03 (20 points) Basic SQL Query

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

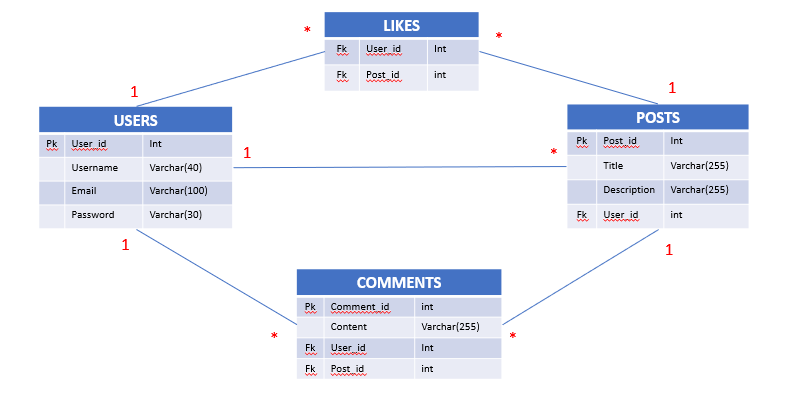


**Your Query:**

|  |
| --- |
| **MariaDB [erd\_db]> create table teacher(**  **-> teacher\_id int not null primary key auto\_increment,**  **-> First\_Name varchar (200),**  **-> Last\_Name varchar (200)**  **-> );**  **MariaDB [erd\_db]> create table class(**  **-> class\_id int not null primary key auto\_increment,**  **-> class\_Name varchar(200)**  **-> );**  **MariaDB [erd\_db]> create table subjects(**  **-> subject\_id int not null primary key auto\_increment,**  **-> title varchar(200),**  **-> teacher\_id int,**  **-> foreign key(teacher\_id) references teacher(teacher\_id)**  **-> );**  **MariaDB [erd\_db]> create table students(**  **-> student\_id int not null primary key ,**  **-> First\_name varchar(200),**  **-> Last\_name varchar(200),**  **-> class\_id int,**  **-> foreign key(class\_id) references class(class\_id)**  **-> );**  **MariaDB [erd\_db]> create table score(**  **-> student\_id int,**  **-> subject\_id int,**  **-> score int,**  **-> foreign key(student\_id) references students(student\_id),**  **-> foreign key(subject\_id) references subjects(subject\_id)**  **-> );** |

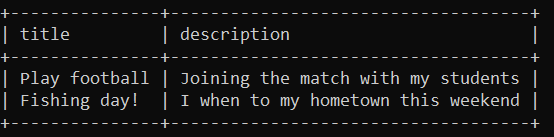
# Exercise 04 (20 points) SQL Query Select

***Important****: Import database name “database\_final\_exam.sql” into your databasae.*



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

**Expected result:**

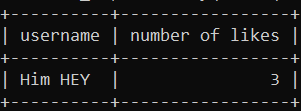


**Your Query:**

|  |
| --- |
| **select posts from users inner join posts on users.user\_id = posts.user\_id where users.userName = 'Rady Y';** |

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

**Expected result:**



**Your Query:**

|  |
| --- |
| **> select likes from posts.post\_id inner join likes on likes.user\_id = posts.user\_id where likes > 1;** |