**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.

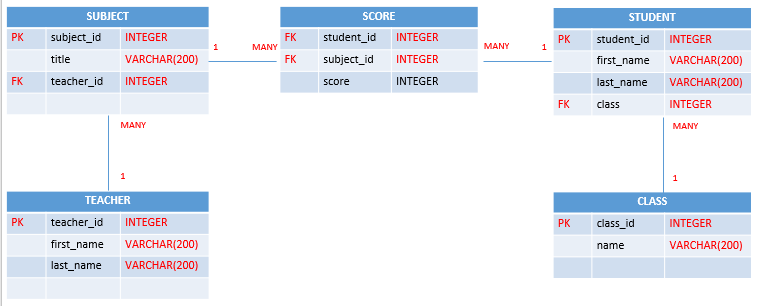
**HOW DO I SUBMIT THE EXAM?**

* 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:

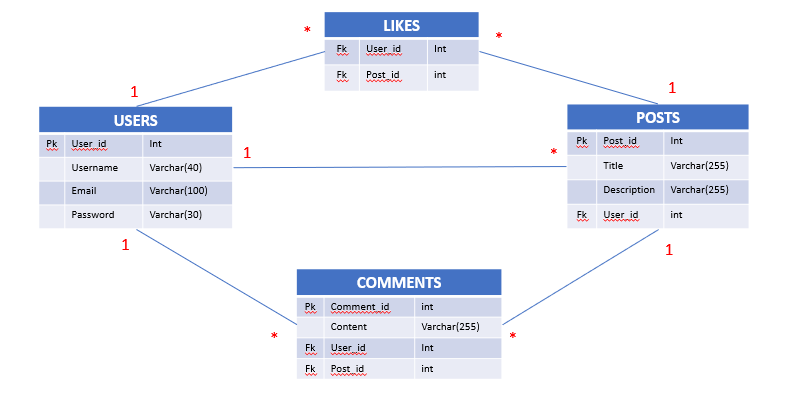


**Your Query:**

|  |
| --- |
| **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));** |

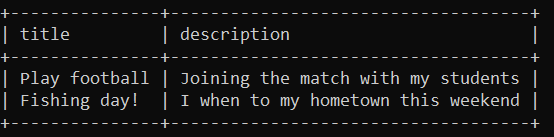
# Exercise 04 (20 points) SQL Query Select

***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:**

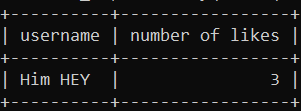


**Your Query:**

|  |
| --- |
| **SELECT 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:**



**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;** |