**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.

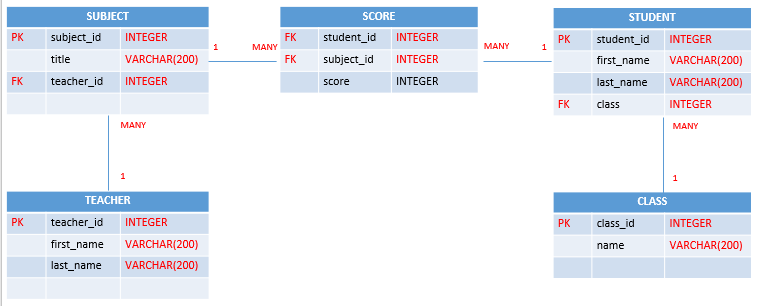
**HOW DO I SUBMIT THE EXAM?**

* Save this document as a yourfullname.PDF file
* In Google Classroom, attach this file to submit.

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

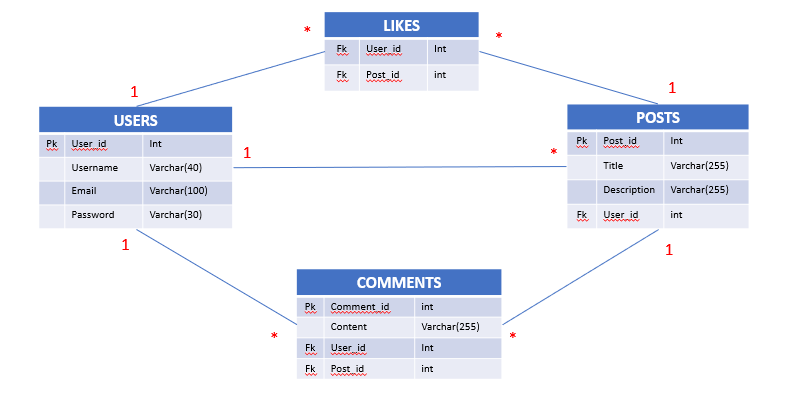


**Your Query:**

|  |
| --- |
| * **Teachers**   **CRATE table teachers(**  **teacher\_id int NOT NULL primary key auto\_increment,**  **first\_name varchar(200),**  **last\_name varchar(200)**  **);**     * **Classs**   **CREATE table classs(**  **class\_id int NOT NULL primary key auto\_increment,**  **name varchar(200)**  **);**   * **Subjects**   **CREATE table subjects(**  **subject\_id int NOT NULL primary key auto\_increment,**  **title varchar(200),**  **teacher\_id int,**  **FOREIGN KEY (teacher\_id) REFERENCES teachers(teacher\_id)**  **);**   * **Students**   **CREATE table students(**  **student\_id int NOT NULL primary key auto\_increment,**  **first\_name varchar(200),**  **last\_name varchar(200),**  **class\_id int,**  **FOREIGN KEY (class\_id) REFERENCES classs(class\_id)**  **);**   * **Score**   **CREATE table scores(**  **student\_id int,**  **subject\_id int,**  **FOREIGN KEY (student\_id) REFERENCES students(student\_id),**  **FOREIGN KEY (subject\_id) REFERENCES subjects(subject\_id)**  **);** |
|  |
|  |

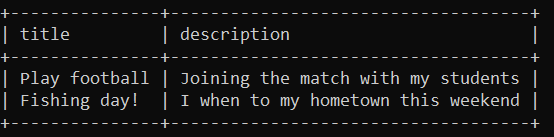
# Exercise 04 (20 points) SQL Query Select

***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:**

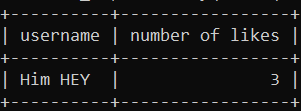


**Your Query:**

|  |
| --- |
| **SELECT title,description FROM posts**  **INNER JOIN users ON users.user\_id=posts.user\_id WHERE username='Rady Y';** |

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

**Expected result:**



**Your Query:**

|  |
| --- |
|  |