**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.

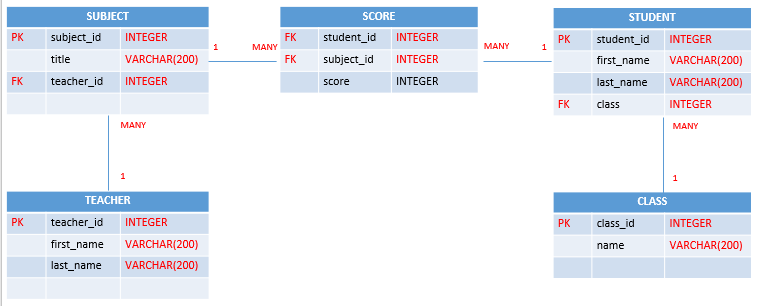
**HOW DO I SUBMIT THE EXAM?**

* 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:

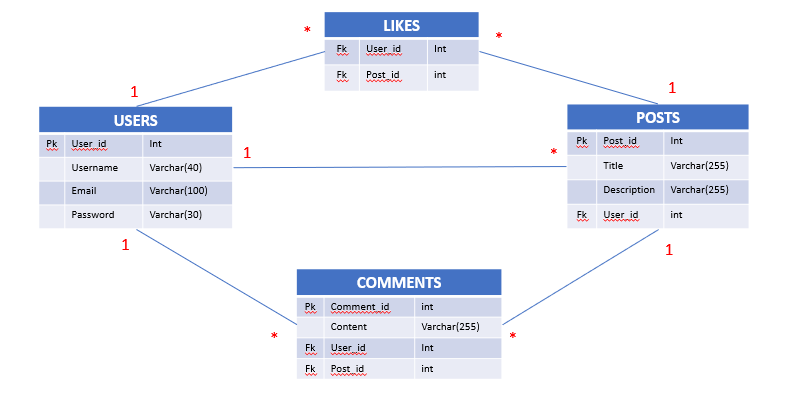


**Your Query:**

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| TEACHER:  CREATE TABLE TEACHERS (  Teacher\_id int(11) NOT NULL AUTO\_RENEMENT PRIMARY KEY,  First\_name VARCHAR(20),  Last\_name VARCHAR(20)  );  SUBJECT:  CREATE TABLE SUBJECTS (  Subject\_id int(11) NOT NULL AUTO\_RENEMENT PRIMARY KEY,  Title VARCHAR (100),  Teacher\_id int(11),  FOREIGN KEY (teacher\_id) REFERENCES TEACHERS(teacher\_id)  );  CLASS:  CREATE TABLE CLASS(  Calss\_id int(11) NOT NULL AUTO\_RENEMENT PRIMARY KEY,  Name VARCHAR(20)  );  STUDENTS:  CREATE TABLE STUDENTS (  Student\_id int(11) NOT NULL AUTO\_RENEMENT PRIMARY KEY,  First\_name VARCHAR(20),  Last\_name VARCHAR(20),  Class\_id (11),  FOREIGN KEY (Class\_id) REFERENCES CLASS(Class\_id)  );  SCORE:  CREATE TABLE SCORE(  Student\_id int(),  Subject\_id int(),  FOREIGN KEY (Student\_id) REFERENCES STUDENTS(Student\_id),  FOREIGN KEY (Subject\_id) REFERENCES SUBJECTS(Subject\_id),  Score int(100)  ); |

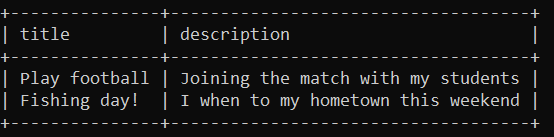
# Exercise 04 (20 points) SQL Query Select

***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:**

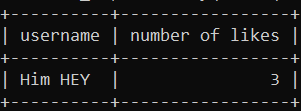


**Your Query:** SELECT title, description FROM posts where user\_id=3;

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

**Expected result:**



**Your Query**: select username, post\_id from likes INNER JOIN users ON likes.user\_id = users.user\_id WHERE username ="Him HEY" AND post\_id = 3;

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