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.

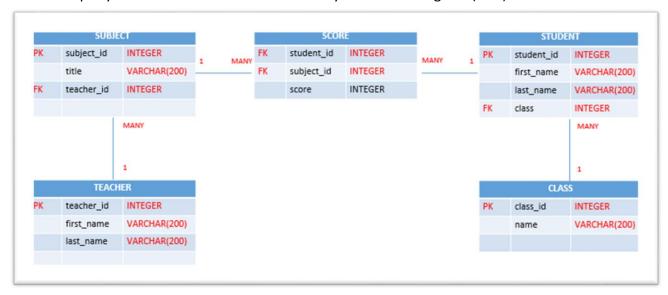
HOW DO I SUBMIT THE EXAM?

- 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:

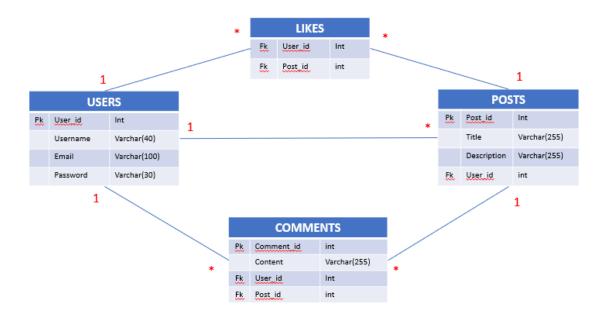
```
TEACHER:
CREATE TABLE TEACHERS (
Teacher_id int(11) NOT NULL AUTO_RENEMENT PRIMARY KEY.
First_name VARCHAR(20),
Last_name VARCHAR(20)
);
SUBJECT:
CREATE TABLE SUBJECTS (
Subject_id int(11) NOT NULL AUTO_RENEMENT PRIMARY KEY,
Title VARCHAR (100),
Teacher id int(11),
FOREIGN KEY (teacher id) REFERENCES 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)
);
```

II. 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:

```
title | description |

title | description |

Play football | Joining the match with my students |

Fishing day! | I when to my hometown this weekend |

the state of the stat
```

Your Query: _SELECT title, description FROM posts where user_id=3;

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 |
+-----+
```

<u>Your Query</u>: select username, post_id from likes INNER JOIN users ON likes.user_id = users.user_id WHERE username ="Him HEY" AND post_id = 3;

```
MariaDB [school]> select username, post_id from likes INNER JOIN users ON likes.u
ser_id = users.user_id WHERE username ="Him HEY" AND post_id = 3;
+-----+
| username | post_id |
+-----+
| Him HEY | 3 |
+-----+
1 row in set (0.000 sec)
```