

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.
-

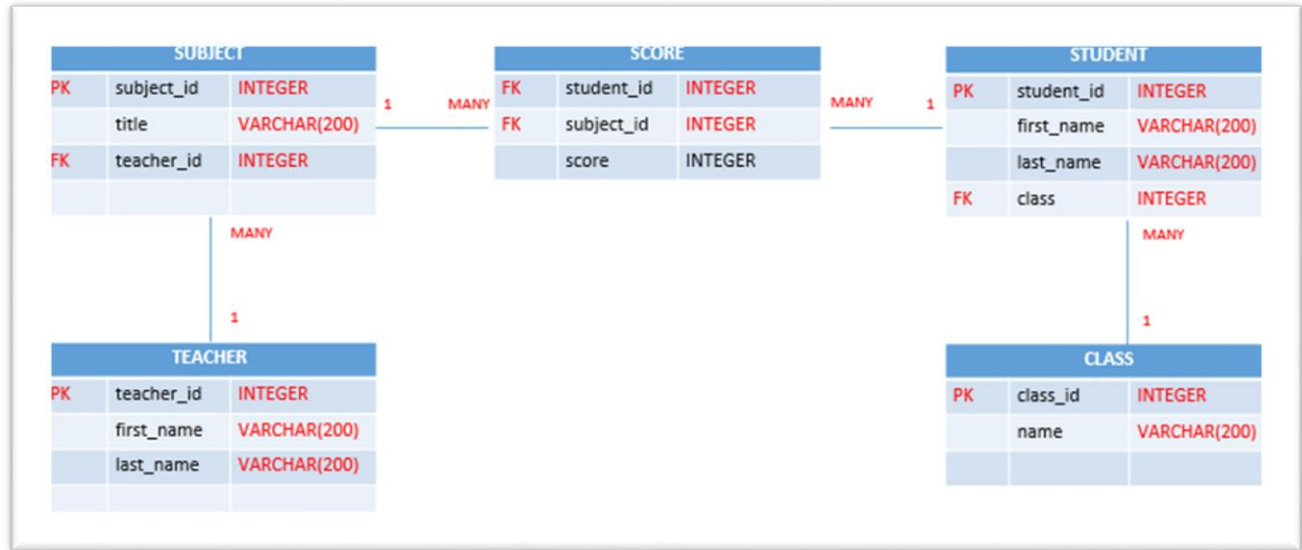
HOW DO I SUBMIT THE EXAM?

- 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:

Create table teachers

```
create table teachers(  
  teacher_id int primary key,  
  first_name varchar(200),  
  last_name varchar(200)  
);
```

Create table classes

```
create table classes(  
  class_id int primary key,  
  name varchar(200)  
);
```

Create table students

```
create table students(  
  student_id int primary key,  
  first_name varchar(200),  
  last_name varchar(200),  
  class_id int,  
  foreign key (class_id) references classes(class_id)  
);
```

Create table subjects

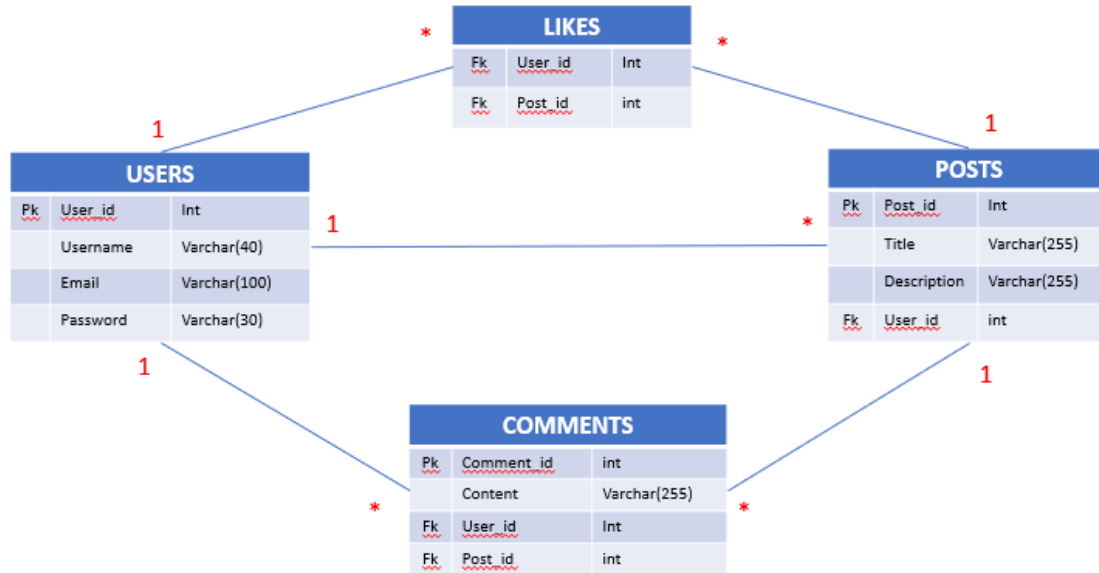
```
create table subjects(  
  subject_id int primary key,  
  title varchar(200),  
  teacher_id int,  
  foreign key(teacher_id) references teachers(teacher_id)  
);
```

Create 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)  
);
```

II. Exercise 04 (20 points) SQL Query Select

Important: Import database name "database_final_exam.sql" into your databases.



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

Expected result:

title	description
Play football	Joining the match with my students
Fishing day!	I when to my hometown this weekend

Your Query:

```
select title, description from posts inner join users on posts.user_id=users.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:

username	number of likes
Him HEY	3

Your Query:

```
select users.username, count(users.user_id) AS "number of likes" from likes inner join
users on likes.user_id=users.user_id group by users.user_id order by count(users.user_id)
desc limit 1;
```