## /\*-- Project 1: Creating Databases and Operations

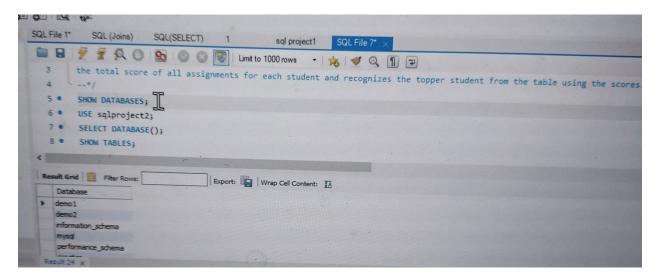
Create a table containing assignment scores of 6 students in class for Python and write a query that calculates

the total score of all assignments for each student and recognizes the topper student from the table using the scores.

--\*/

-- To know the available database

## SHOW DATABASES;

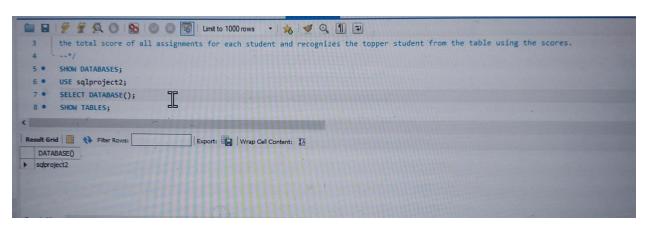


-- to use sqlproject db

USE sqlproject2;

-- To know the current db

## SELECT DATABASE();



-- To know the tables

SHOW TABLES;

-- delete if that table exists previously

DROP TABLE IF EXISTS student;

-- Create table student with valid constraint

```
CREATE TABLE student (
```

```
student_id INT PRIMARY KEY,

first_name VARCHAR(25) NOT NULL,

last_name VARCHAR(20) NOT NULL,

department VARCHAR(10) NOT NULL,

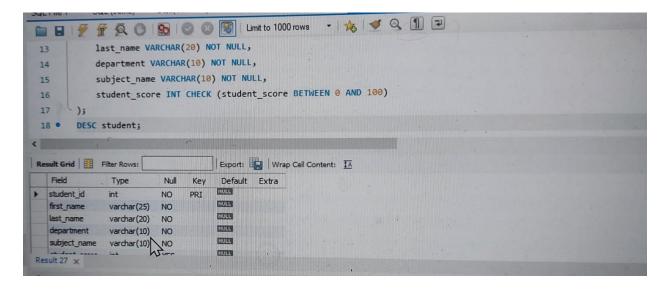
subject_name VARCHAR(10) NOT NULL,

student_score INT CHECK (student_score BETWEEN 0 AND 100)
```

-- To describe the table

DESC student;

);



-- To insert the values in to the table one by one

INSERT INTO student(student\_id, first\_name, last\_name, department, subject\_name, student\_score)

VALUES (101, 'Kavitha', 'Kumar', 'CSE', 'Python', 98);

-- To insert more than one value

INSERT INTO student(student\_id, first\_name, last\_name, department, subject\_name, student\_score)

VALUES (102, 'Priya', 'Dayalan', 'IT', 'Python', 100),

(103, 'Kanimozhi', 'Elumalai', 'ECE', 'Python', 91),

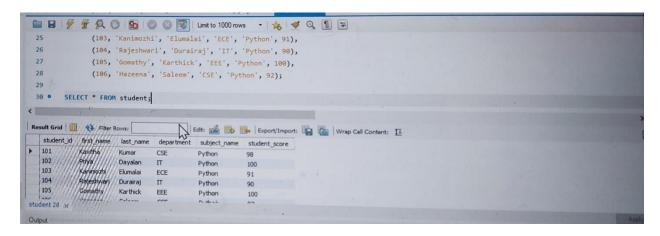
(104, 'Rajeshwari', 'Durairaj', 'IT', 'Python', 90),

(105, 'Gomathy', 'Karthick', 'EEE', 'Python', 100),

(106, 'Hazeena', 'Saleem', 'CSE', 'Python', 92);

-- To retrieve all data from the record

SELECT \* FROM student;

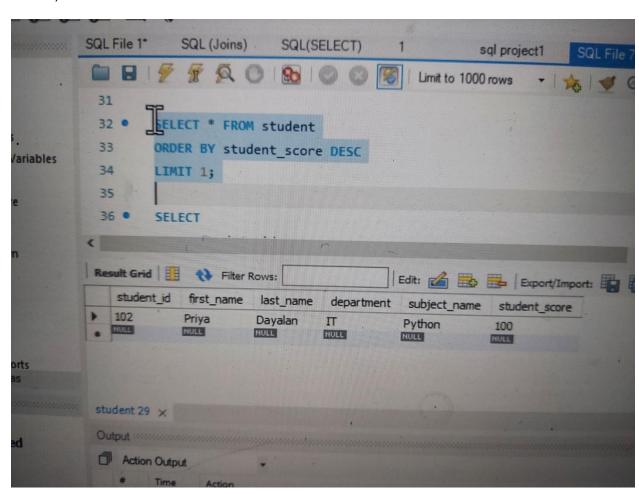


-- To get the topper score restriction it will show only one record

SELECT \* FROM student

ORDER BY student score DESC

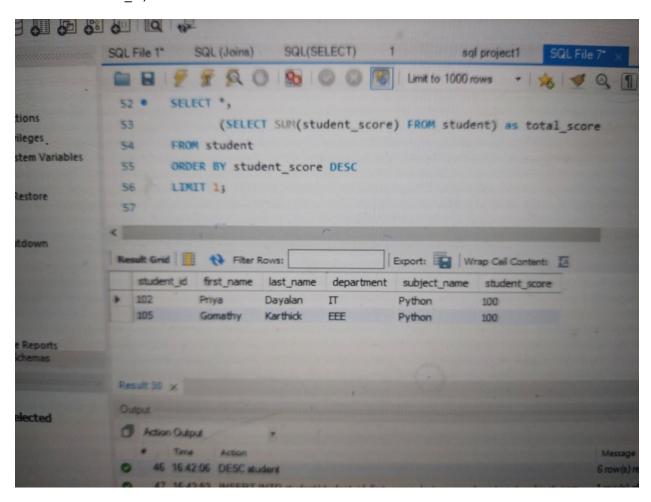
## LIMIT 1;



-- to select topper by using aggregate fn and subqueries which satisfies all condition

```
SELECT *
FROM student
WHERE student_score = (
    SELECT MAX(student_score) FROM student
)
```

ORDER BY student\_id;



-- To get the topper score even more than one student satisfies the condition using self join

