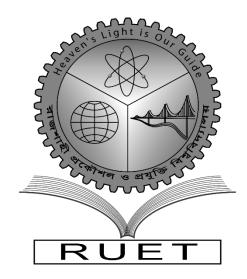
"Heaven's Light is Our Guide

# Rajshahi University of Engineering & Technology Rajshahi, Bangladesh



# Department of Electrical & Computer Engineering (ECE-21)

Course Code: ECE 2216

Course Title: Data Base Systems Sessional

Experiment No: 01

Date of Submission: 23/09/2024

**Submitted To:** 

Oishi Jyoti Assistant Professor Department of ECE Rajshahi University of Engineering & Technology **Submitted By:** 

Faez Mahmud Roll: 2110032 ECE-21 Series

Task 1: Create a database containing following info for 10 students

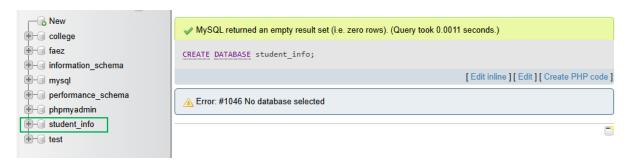
- 1.Roll
- 2.Name
- 3.Semester
- 4. Major/ Favorite subject
- 5. Obtained Marks (75)

Task 1.1: Create Database and Table

### Creating database:

```
Run SQL query/queries on server "127.0.0.1": 

1 CREATE DATABASE student_info;
```



## Creating Table:

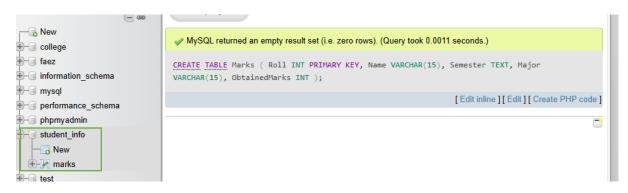
```
Run SQL query/queries on database student_info: 

CREATE TABLE Marks (
Roll INT PRIMARY KEY,
Name VARCHAR(15),
Semester TEXT,
Major VARCHAR(15),
ObtainedMarks INT

);

Batabase student_info

CREATE TABLE Marks (
Roll INT PRIMARY KEY,
Major VARCHAR(15),
ObtainedMarks INT
```



#### **Inserting Values:**

```
Run SQL query/queries on table student_info.marks: (a)
     1 INSERT INTO marks
                           (Roll, Name, Semester, Major, Obtained Marks)
     3
                   VALUES(2110031, 'Sakin', 'Even', 'CS', 45),
     4
                             (2110032, 'Faez', 'Even', 'CS', 70),
     5
     6
     7
                               (2110033, 'Tasnuva', 'Even', 'CS', 64),
     8
                                 (2110034, 'Trisha', 'Even', 'CS', 56),
     9
    10
    11
                                   (2110035, 'Mohona', 'Even', 'EEE', 28),
    12
    13
                                     (2110037, 'Tariful', 'Odd', 'CS', 44),
    14
                                       (2110038, 'Nayeem', 'Even', 'EEE', 21),
    15
    16
                                         (2110039, 'A.Rafiu', 'Even', 'CS', 29),
    17
    18
    19
                                             (2110040, 'Nuha', 'Odd', 'EEE', 66);
    20
    21
```

```
Roll Name Semester Major ObtainedMarks
CS
                                               45
                          Even
CS
                                               70
                           Even

    Ø Edit  
    ♣i Copy  
    Opelete 2110033 Tasnuva Even

                                  CS
                                               64

    Ø Edit 
    ♣ Copy    Opelete 2110034 Trisha

                           Even
                                  CS
                                               56
EEE
                                               28

    Ø Edit 
    ♣ Copy   O Delete 2110037 Tariful

                           Odd
                                  CS
                                               44
EEE
                                               21
Ø Edit 3 Copy 		 □ Delete 2110039 A.Rafiu Even
                                  CS
                                               29
EEE
                                               66
                           Odd
```

Task 1.2: Change a specific column name and data type.

```
Run SQL query/queries on table student_info.marks: 

ALTER TABLE marks
CHANGE Major favorite_subject TEXT;
```



Task 1.3: Add a new column named as log, set the value applicable and not applicable for the condition (<30)

#### First added a column named log:

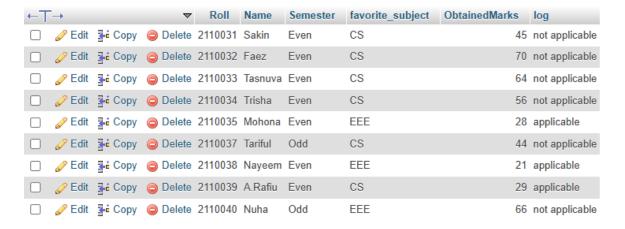
```
1 ALTER TABLE marks
2 ADD log VARCHAR(20);
3
```

#### Output:



Updating new column according to the condition:

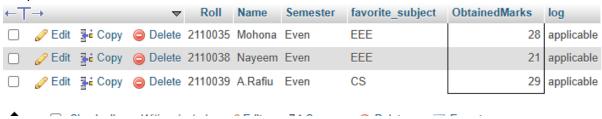
#### Output:



Task1.4: Delete the student info whose marks are below 30.

The students have below 30:

```
1 SELECT * FROM marks
2 WHERE ObtainedMarks < 30;
```



# Deleting them:

```
1 DELETE FROM marks
2 WHERE ObtainedMarks < 30;
```

←Ţ	$\rightarrow$		$\triangleleft$	Roll	Name	Semester	favorite_subject	ObtainedMarks	log
	Edit	<b>≩</b> сору	Delete	2110031	Sakin	Even	CS	45	not applicable
		<b>≩</b> сору	Delete	2110032	Faez	Even	CS	70	not applicable
	Edit	<b>≩</b> Copy	Delete	2110033	Tasnuva	Even	CS	64	not applicable
	Edit	<b>≩</b> di Copy	Delete	2110034	Trisha	Even	CS	56	not applicable
		<b>≩-</b> Copy	Delete	2110037	Tariful	Odd	CS	44	not applicable
	Ø Edit	<b>≩</b> € Copy	Delete	2110040	Nuha	Odd	EEE	66	not applicable