Experiment No: 01

Experiment Name: Create a database containing following info for 10 students
      i. Roll
      ii. Name
      iii. Semester
      iv. Major subject
      v. Obtained Marks
Task-1: Create a database and table.
Task-2: Change a specific column name and data type
Task-3:Add a new column named as Log. Set the value applicable and not applicable for the condition(<30)
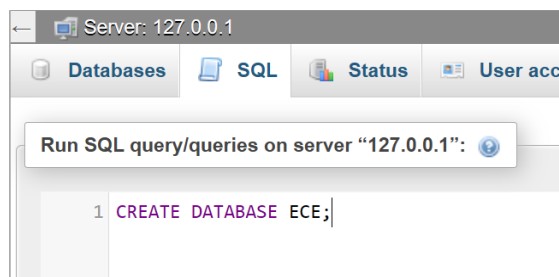**Task-4:** delete the students info whose marks are below 30
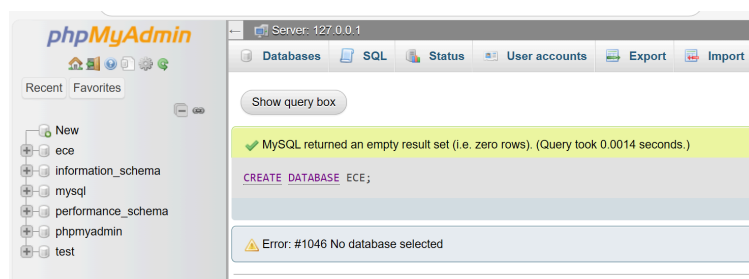
Solve:

Task-1:
    ● Creating a database:
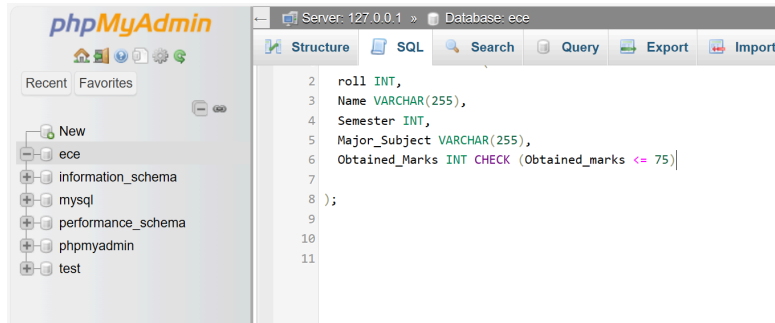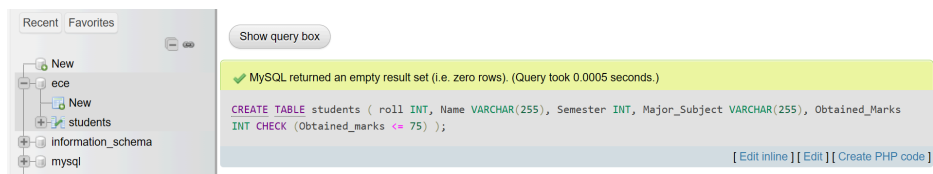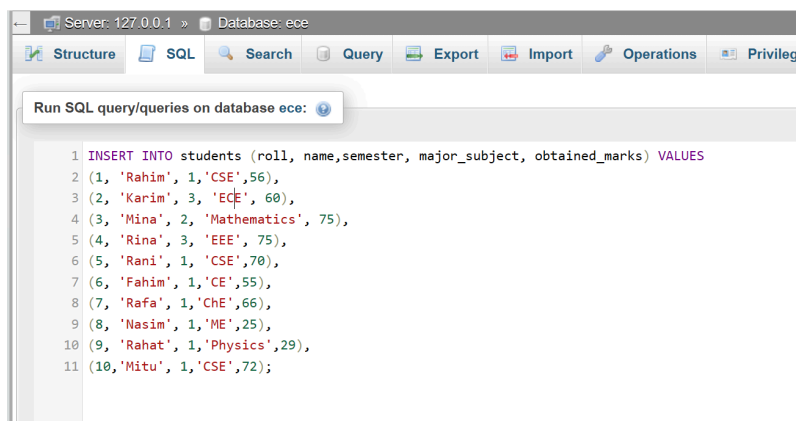
      Code:

      Output:
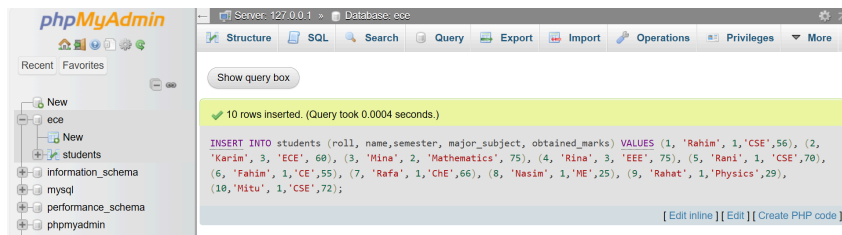
● Creating a table:

Code:

Output:

● Inserting the informations about 10 students:

Code:

Output:

roll	Name	Semester	Major_Subject	Obtained_Marks
1	Rahim	1	CSE	56
2	Karim	3	ECE	60
3	Mina	2	Mathematics	75
4	Rina	3	EEE	75
5	Rani	1	CSE	70
6	Fahim	1	CE	55
7	Rafa	1	ChE	66
8	Nasim	1	ME	25
9	Rahat	1	Physics	29
10	Mitu	1	CSE	72

Task-2:

- Changing column name & data type:

Code:


```
1  ALTER TABLE students
2  CHANGE Obtained_Marks Total_Marks FLOAT;
```
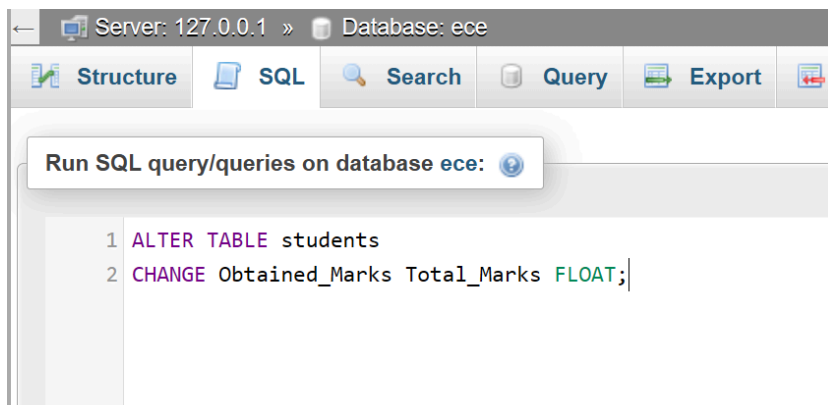
Output:
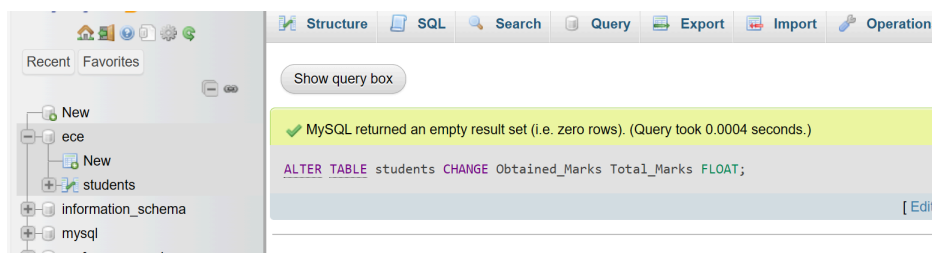
roll	Name	Semester	Major_Subject	Total_Marks
1	Rahim	1	CSE	56
2	Karim	3	ECE	60
3	Mina	2	Mathematics	75
4	Rina	3	EEE	75
5	Rani	1	CSE	70
6	Fahim	1	CE	55
7	Rafa	1	ChE	66
8	Nasim	1	ME	25
9	Rahat	1	Physics	29
10	Mitu	1	CSE	72

Task-3:

● Adding column:

Code:

Run SQL query/queries on database ece:
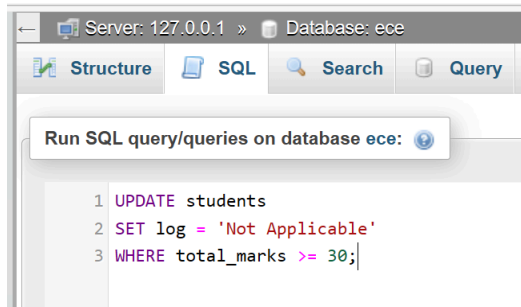
```
1  ALTER TABLE students
2  ADD log varchar(255);
```

Output:

roll	Name	Semester	Major_Subject	Total_Marks	log
1	Rahim	1	CSE	56	NULL
2	Karim	3	ECE	60	NULL
3	Mina	2	Mathematics	75	NULL
4	Rina	3	EEE	75	NULL
5	Rani	1	CSE	70	NULL
6	Fahim	1	CE	55	NULL
7	Rafa	1	ChE	66	NULL
8	Nasim	1	ME	25	NULL
9	Rahat	1	Physics	29	NULL
10	Mitu	1	CSE	72	NULL

● Setting the value applicable and not applicable:

Code:

Output:

roll	Name	Semester	Major_Subject	Total_Marks	log
1	Rahim	1	CSE	56	Not Applicable
2	Karim	3	ECE	60	Not Applicable
3	Mina	2	Mathematics	75	Not Applicable
4	Rina	3	EEE	75	Not Applicable
5	Rani	1	CSE	70	Not Applicable
6	Fahim	1	CE	55	Not Applicable
7	Rafa	1	ChE	66	Not Applicable
8	Nasim	1	ME	25	Applicable
9	Rahat	1	Physics	29	Applicable
10	Mitu	1	CSE	72	Not Applicable

Task-4:

- Deleting the students info whose marks are below 30:

Code:

```
    Server: 127.0.0.1  »    Database: ece

    Structure    SQL    Search    Query

    Run SQL query/queries on database ece:  ?

1  DELETE FROM students
2  WHERE Total_Marks < 30;
```
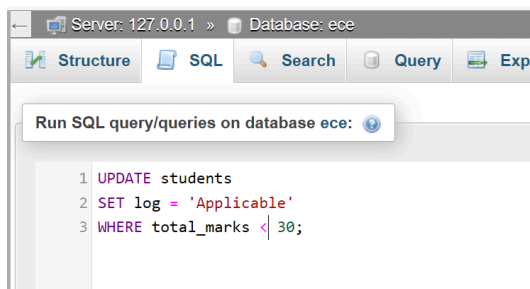
Output:

Show query box

✔ 2 rows deleted. (Query took 0.0017 seconds.)

```
DELETE FROM students WHERE Total_Marks < 30;
```

roll	Name	Semester	Major_Subject	Total_Marks	log
1	Rahim	1	CSE	56	Not Applicable
2	Karim	3	ECE	60	Not Applicable
3	Mina	2	Mathematics	75	Not Applicable
4	Rina	3	EEE	75	Not Applicable
5	Rani	1	CSE	70	Not Applicable
6	Fahim	1	CE	55	Not Applicable
7	Rafa	1	ChE	66	Not Applicable
10	Mitu	1	CSE	72	Not Applicable