RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY

Department of Electrical & Computer Engineering

Course Code   **:**   ECE 2216

Course Name   **:**   Data Base Systems Sessional

Experiment No.   **:**   01

Date of Experiment :   10 September 2024

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Submitted by	Submitted to
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EXPERIMENT NO. : 01

EXPERIMENT NAME :
Creation of a database for ECE 21 series containing following info :
      i)Name
      ii)Roll
      iii)Semester
      iv)Major Subject
      v)Obtained Marks
  1)Create Database & table.
  2)Change a specific column name & datatype.
  3)Add a new column named as log.
  4)Delete the students info whose marks are below 30.
OBJECTIVE :
-To get a basic idea of Mysql Database.
-To learn how to create database & efficient handling & management of database.

QUERY & OUTPUT :
1)
~ Query for creating Table :

```
1  CREATE TABLE ece21(
2      Name VARCHAR(100) ,
3      Roll INT,
4      Semester VARCHAR(100),
5      Major_Subject VARCHAR(100),
6      Obtained_Marks INT
7  )
```

~ Output :

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds.)

CREATE TABLE ece21(Name VARCHAR(100) , Roll INT, Semester VARCHAR(100), Major_Subject VARCHAR(100), Obtained_Marks INT);

[Edit inline] [Edit] [Create PHP code]

Query for inserting data in Table :

```
 1  INSERT INTO ece21 (Name,Roll,Semester,Major_Subject,Obtained_Marks)
 2  VALUES
 3  ('Esha','2110054','2-2','CSE',28),
 4  ('Samia','2110003','2-2','EEE',70),
 5  ('Orpa','2110039','2-2','CSE',75),
 6  ('Trisha','2110034','2-2','CSE',72),
 7  ('Tahsin','2110033','2-2','EEE',75),
 8  ('Smrity','2110051','2-2','EEE',80),
 9  ('Ikra','2110030','2-2','CSE',60),
10  ('Zenifa','2110008','2-2','CSE',78);
11
12
```

Output :

✔ 8 rows inserted. (Query took 0.0007 seconds.)

INSERT INTO ece21 (Name,Roll,Semester,Major_Subject,Obtained_Marks) VALUES ('Esha','2110054','2-2','CSE',28), ('Samia','2110003','2-2','EEE',70), ('Orpa','2110039','2-2','CSE',75), ('Trisha','2110034','2-2','CSE',72), ('Tahsin','2110033','2-2','EEE',75), ('Smrity','2110051','2-2','EEE',80), ('Ikra','2110030','2-2','CSE',60), ('Zenifa','2110008','2-2','CSE',78);

[Edit inline] [Edit] [Create PHP code]

Name	Roll	Semester	Major_Subject	Obtained_Marks
Esha	2110054	2-2	CSE	28
Samia	2110003	2-2	EEE	70
Orpa	2110039	2-2	CSE	75
Trisha	2110034	2-2	CSE	72
Tahsin	2110033	2-2	EEE	75
Smrity	2110051	2-2	EEE	80
Ikra	2110030	2-2	CSE	60
Zenifa	2110008	2-2	CSE	78

2)
~ Query for change a specific column name & datatype in the Table :

```
1  ALTER TABLE ece21
2  CHANGE COLUMN Major_Subject Department VARCHAR(200);
3
```

OutPut :

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0008 seconds.)

ALTER TABLE ece21 CHANGE COLUMN Major_Subject Department VARCHAR(200);

Edit inline] [Edit] [Create PHP code]

Name	Roll	Semester	Department	Obtained_Marks
Esha	2110054	2-2	CSE	28
Samia	2110003	2-2	EEE	70
Orpa	2110039	2-2	CSE	75
Trisha	2110034	2-2	CSE	72
Tahsin	2110033	2-2	EEE	75
Smrity	2110051	2-2	EEE	80
Ikra	2110030	2-2	CSE	60
Zenifa	2110008	2-2	CSE	78

3)

~ Query for inserting a new column named as Log in the Table :

```
1  ALTER TABLE ece21
2  ADD COLUMN Backlog VARCHAR(100);
3
4  UPDATE ece21
5  SET Backlog = 'ECE 1205'
6  WHERE roll = '2110054';  |
7
```

Output :

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

ALTER TABLE ece21 ADD COLUMN Backlog VARCHAR(100);

[Edit inline] [Edit] [Create PHP code]

Name	Roll	Semester	Department	Obtained_Marks	Backlog
Esha	2110054	2-2	CSE	28	ECE 1205
Samia	2110003	2-2	EEE	70	NULL
Orpa	2110039	2-2	CSE	75	NULL
Trisha	2110034	2-2	CSE	72	NULL
Tahsin	2110033	2-2	EEE	75	NULL
Smrity	2110051	2-2	EEE	80	NULL
Ikra	2110030	2-2	CSE	60	NULL
Zenifa	2110008	2-2	CSE	78	NULL

4)

~ Query for delete the student info whose marks are below 30 in the Table :

```
1  DELETE FROM ece21
2  WHERE 'marks_obtained' < 30;
3
```