Rajshahi University of Engineering & Technology, Rajshahi

Department of Electrical & Computer Engineering

Course Code   : ECE 2216

Course Title   : Database System Sessional

Experiment No.   : 01

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Submitted To-
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Experiment No: 01

Experiment Name: Create a database system for class 21 where there are 2 tables for odd and even batch containing following information for 10 students- ID, Name, Contact, Blood Group, Major Subject, Obtained Marks.
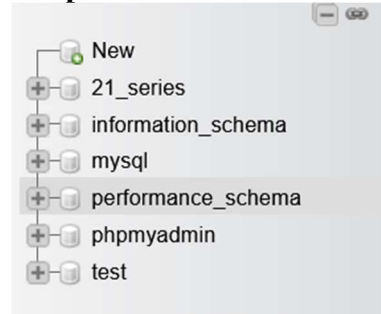
Objective:

1. Study various operation of Data Definition Language (DDL)

2. Study various operation of Data Manipulation Language (DML)

Query & Output:

Query to create a new database:

Run SQL query/queries on server "127.0.0.1":

```
1  CREATE DATABASE `21_series`;
```

Output:

```
New
21_series
information_schema
mysql
performance_schema
phpmyadmin
test
```

Query to create a new-tables:

Run SQL query/queries on database **21_series:**

```
 1  CREATE TABLE `Odd` (
 2      ID INT (100),
 3      Name VARCHAR(255),
 4      Contact VARCHAR(255),
 5      BloodGroup VARCHAR(255),
 6      MajorSubject VARCHAR(255),
 7      ObtainedMarks INT(100)
 8  );
 9  CREATE TABLE `Even` (
10      ID INT (100),
11      Name VARCHAR(255),
12      Contact VARCHAR(255),
13      BloodGroup VARCHAR(255),
14      MajorSubject VARCHAR(255),
15      ObtainedMarks INT(100)
16  );
```

Output:

Table	Action					
even	★	Browse	Structure	Search	Insert	Empty	Drop
odd	★	Browse	Structure	Search	Insert	Empty	Drop
2 tables	Sum					

Inserting Data of 10 Students:

```
1  INSERT INTO `Odd`(ID, Name, Contact, BloodGroup, MajorSubject, ObtainedMarks) VALUES
2  (10, 'Md. Rubaid Hoque', '01913730412', 'O+', 'Electrical', 85),
3  (11, 'A.S.M. Al Mosabbir', '01611892363', 'A-', 'Electrical', 92),
4  (12, 'Md. Tonmay Hossain Jifat', '01554311622', 'B+', 'Electrical', 78),
5  (13, 'Md. Sajjad Hosen Siam', '01722255655', 'AB-', 'Electrical', 88),
6  (14, 'Md. Noman Biswas Sibly', '01712708983', 'O-', 'Computer Science', 95),
7  (15, 'Md. Humayun KhalidRatin', '01910-419687', 'O-', 'Computer Science', 95),
8  (16, 'Md. Ahanaf Tahsin Tonoy', '01829263877', 'O-', 'Computer Science', 95),
9  (17, 'Turja Majumder', '01838843119', 'O-', 'Computer Science', 95),
10 (18, 'Md.Shahin Alam', '01834153693', 'O-', 'Computer Science', 95),
11 (19, 'MD SabbirHosen', '01749227844', 'O-', 'Computer Science', 95);
```

Output:

ID	Name	Contact	BloodGroup	MajorSubject	ObtainedMarks
10	Md. Rubaid Hoque	01913730412	O+	Electrical	85
11	A.S.M. Al Mosabbir	01611892363	A-	Electrical	92
12	Md. Tonmay Hossain Jifat	01554311622	B+	Electrical	78
13	Md. Sajjad Hosen Siam	01722255655	AB-	Electrical	88
14	Md. Noman Biswas Sibly	01712708983	O-	Computer Science	95
15	Md. Humayun KhalidRatin	01910-419687	O-	Computer Science	95
16	Md. Ahanaf Tahsin Tonoy	01829263877	O-	Computer Science	95
17	Turja Majumder	01838843119	O-	Computer Science	95
18	Md.Shahin Alam	01834153693	O-	Computer Science	95
19	MD SabbirHosen	01749227844	O-	Computer Science	95

Query to INSERT in table:

```
1  INSERT INTO `Odd` (ID, Name, Contact, BloodGroup, MajorSubject, ObtainedMarks) VALUES
2  (01, ' Md Abidur Rahman', '123-456-7800', 'A+', 'Computer Science', 90);
3
```

Output:

1	Md Abidur Rahman	123-456-7800	A+	Computer Science	90

Query to UPDATE in table:

```
1  UPDATE `odd`
2  SET Contact = '123-456-7899', ObtainedMarks = 92
3  WHERE ID = 1;
4
```

Output:

19	MD SabbirHosen	01749227844	O-	Computer Science	95
1	Md Abidur Rahman	123-456-7899	A+	Computer Science	92

Query to DELET in table:

```
1  DELETE FROM `odd`
2  WHERE ID = 1;
3
```

Output:

ID	Name	Contact	BloodGroup	MajorSubject	ObtainedMarks
10	Md. Rubaid Hoque	01913730412	O+	Electrical	85
11	A.S.M. Al Mosabbir	01611892363	A-	Electrical	92
12	Md. Tonmay Hossain Jifat	01554311622	B+	Electrical	78
13	Md. Sajjad Hosen Siam	01722255655	AB-	Electrical	88
14	Md. Noman Biswas Sibly	01712708983	O-	Computer Science	95
15	Md. Humayun KhalidRatin	01910-419687	O-	Computer Science	95
16	Md. Ahanaf Tahsin Tonoy	01829263877	O-	Computer Science	95
17	Turja Majumder	01838843119	O-	Computer Science	95
18	Md.Shahin Alam	01834153693	O-	Computer Science	95
19	MD SabbirHosen	01749227844	O-	Computer Science	95

Query to ALTER in table:

Run SQL query/queries on database 21_series:

```
1  ALTER TABLE `odd`
2  ADD Email VARCHAR(100);
3
```

Output:

ID	Name	Contact	BloodGroup	MajorSubject	ObtainedMarks	Email
10	Md. Rubaid Hoque	01913730412	O+	Electrical	85	NULL
11	A.S.M. Al Mosabbir	01611892363	A-	Electrical	92	NULL
12	Md. Tonmay Hossain Jifat	01554311622	B+	Electrical	78	NULL
13	Md. Sajjad Hosen Siam	01722255655	AB-	Electrical	88	NULL
14	Md. Noman Biswas Sibly	01712708983	O-	Computer Science	95	NULL
15	Md. Humayun KhalidRatin	01910-419687	O-	Computer Science	95	NULL
16	Md. Ahanaf Tahsin Tonoy	01829263877	O-	Computer Science	95	NULL
17	Turja Majumder	01838843119	O-	Computer Science	95	NULL
18	Md.Shahin Alam	01834153693	O-	Computer Science	95	NULL
19	MD SabbirHosen	01749227844	O-	Computer Science	95	NULL

Query to DROP in table:

Run SQL query/queries on database 21_series:

```
1  DROP TABLE even;
2
```

Output:

- New
- 21_series
  - New
  - odd
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
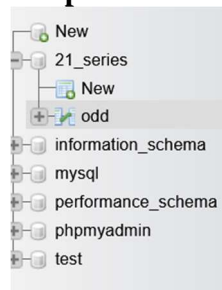
Query to TRUNCATE in table:

Run SQL query/queries on database 21_series:

```sql
TRUNCATE TABLE `odd`;
```