

Heaven's Light is Our Guide

Rajshahi University of Engineering & Technology



Department of Electrical & Computer Engineering

ECE-21

Course Code: ECE 2216

Course Title: Data Base Systems Sessional

Experiment No: 01

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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 and Output:

Creating a new database:

```
CREATE DATABASE 'class_21'
```

Query to create a new tables:

```
SQL 1 x
1 CREATE TABLE `odd` (
2     id INT(100),
3     name VARCHAR(255),
4     contact VARCHAR(255),
5     blood_group VARCHAR(255),
6     major_subject VARCHAR(255),
7     obtained_marks INT(100)
8 );
9
10 CREATE TABLE `even` (
11     id INT(100),
12     name VARCHAR(255),
13     contact VARCHAR(255),
14     blood_group VARCHAR(255),
15     major_subject VARCHAR(255),
16     obtained_marks INT(100)
17 );
```

Output:

| Table: odd Filter in any column | | | | | | |
|-----------------------------------------------------------|--------|---------|-------------|---------------|----------------|--|
| id | name | contact | blood_group | major_subject | obtained_marks | |
| Filter | Filter | Filter | Filter | Filter | Filter | |

| Table: even Filter in any column | | | | | | |
|------------------------------------------------------------|--------|---------|-------------|---------------|----------------|--|
| id | name | contact | blood_group | major_subject | obtained_marks | |
| Filter | Filter | Filter | Filter | Filter | Filter | |

Inserting data into two tables:

```
INSERT INTO `odd` (id, name, contact, blood_group, major_subject, obtained_marks) VALUES
(1, 'Sadik', '01123456789', 'Ave+', 'computer', 65),
(3, 'Sania', '01323456789', 'Ave+', 'electrical', 40),
(5, 'Hridoy', '01523456789', 'Bve+', 'computer', 30),
(7, 'Himel', '01723456789', 'Ave+', 'electrical', 80),
(9, 'Priho', '01923456789', 'Ave+', 'electrical', 90),
```

```
INSERT INTO `even` (id, name, contact, blood_group, major_subject, obtained_marks) VALUES
(2, 'Nahid', '01223456789', 'Bve+', 'electrical', 50),
(4, 'Radia', '01423456789', 'Bve+', 'NULL', 90),
(6, 'Jahin', '01623456789', 'Ave+', 'computer', 90),
(8, 'Zanifa', '01823456789', 'Ave+', 'computer', 55),
(10, 'Rubayed', '01023456789', 'Ave+', 'computer', 64)
```

Output:

| | id | name | contact | blood_group | major_subject | obtained_marks |
|---|--------|--------|-----------|-------------|---------------|----------------|
| | Filter | Filter | Filter | Filter | Filter | Filter |
| 1 | 1 | Sadik | 011234... | Ave+ | computer | 65 |
| 2 | 3 | Sania | 013234... | Ave+ | electrical | 40 |
| 3 | 5 | Hridoy | 015234... | Bve+ | computer | 30 |
| 4 | 7 | Himel | 017234... | Ave+ | electrical | 80 |
| 5 | 9 | Priho | 019234... | Ave+ | electrical | 90 |

| | id | name | contact | blood_group | major_subject | obtained_marks |
|---|--------|---------|-----------|-------------|---------------|----------------|
| | Filter | Filter | Filter | Filter | Filter | Filter |
| 1 | 2 | Nahid | 012234... | Bve+ | electrical | 50 |
| 2 | 4 | Radia | 014234... | Bve+ | NULL | 90 |
| 3 | 6 | Jahin | 016234... | Ave+ | computer | 90 |
| 4 | 8 | Zanifa | 018234... | Ave+ | computer | 55 |
| 5 | 10 | Ruba... | 010234... | Ave+ | computer | 64 |

Query to update a row in table:

```
UPDATE 'odd' SET 'id' = 12, 'name' = 'Tonmoy', 'contact' = '0111111111', 'blood_group' = 'AB+',  
'major_subject' = 'computer', 'obtained_marks' = '80' WHERE 'odd'.id = 5;
```

Output:

| | id | name | contact | blood_group | major_subject | obtained_marks | |
|---|--------|--------|-----------|-------------|---------------|----------------|--|
| | Filter | Filter | Filter | Filter | Filter | Filter | |
| 1 | 1 | Sadik | 011234... | Ave+ | computer | 65 | |
| 2 | 3 | Sania | 013234... | Ave+ | electrical | 40 | |
| 3 | 12 | Tonmoy | 011111... | AB+ | computer | 80 | |
| 4 | 7 | Himel | 017234... | Ave+ | electrical | 80 | |
| 5 | 9 | Priho | 019234... | Ave+ | electrical | 90 | |
| | | | | | | | |

Query to delete a row from table:

```
DELETE FROM 'even' WHERE 'id' = 6;
```

Output:

| | | | | | | |
|----|---------|-----------|------|------------|----|--|
| 2 | Nahid | 012234... | Bve+ | electrical | 50 | |
| 4 | Radia | 014234... | Bve+ | NULL | 90 | |
| 6 | Jahin | 016234... | Ave+ | computer | 90 | |
| 8 | Zanifa | 018234... | Ave+ | computer | 55 | |
| 10 | Ruba... | 010234... | Ave+ | computer | 64 | |
| | | | | | | |