# Rajshahi University of Engineering & Technology

# **Department of Electrical and Computer Engineering**



Course Code: ECE- 2216

Course Title: Data Base Systems Sessional

Lab Report No: 01

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### 1.1 Experiment No: 01

## 1.2 Name of the Experiment:

Basic problems on DDL & DML.

#### Tasks:

- (i). 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 (100)
- (ii). Perform the following DDL & DML operations:
- DML: INSERT, DELETE, UPDATE.
- DDL: CREATE, ALTER, DROP, TRUNCATE, RENAME, CHANGE.

## 1.3 Objectives:

- To comprehend basic DML commands like UPDATE, DELETE, and INSERT.
- To become familiar with CREATE, ALTER, DROP, TRUNCATE, RENAME, and CHANGE, among other fundamental DDL procedures.

## 1.4 Query & Output:

## **Creating a new database:**

CREATE DATABASE 'class21';



## **Creating New Tables:**

```
CREATE TABLE 'odd' (
 id INT(100),
 name VARCHAR(255),
 contact VARCHAR(255),
 blood_group VARCHAR(255),
 major_subject VARCHAR(255),
 obtained_marks INT(100)
);
CREATE TABLE 'even' (
 id INT(100),
 name VARCHAR(255),
 contact VARCHAR(255),
 blood_group VARCHAR(255),
 major_subject VARCHAR(255),
 obtained_marks INT(100)
);
```



## **Inserting Data of 10 Students:**

INSERT INTO `odd` (`id`, `name`, `contact`, `blood\_group`, `major\_subject`, `obtained\_marks`) VALUES (1, 'Lionel Messi', '01000000001', 'O+ve', 'Math', 95),

- (3, 'Pedri', '01000000003', 'B+ve', 'Math', 85),
- (5, 'Lamine Yamal', '01000000005', 'AB+ve', 'Math', 88),
- (7, 'Robert Lewandowski', '01000000007', 'A+ve', 'Math', 90),
- (9, 'Jordi Alba', '01000000009', 'O-ve', 'Math', 82);

#### Odd Table:

id	name	contact	blood_group	major_subject	obtained_marks
	1 Lionel Messi	01000000001	O+ve	Math	95
	3 Pedri	01000000003	B+ve	Math	85
	5 Lamine Yamal	01000000005	AB+ve	Math	88
	7 Robert Lewandowski	01000000007	A+ve	Math	90
	9 Jordi Alba	01000000009	O-ve	Math	82

INSERT INTO `even` (`id`, `name`, `contact`, `blood\_group`, `major\_subject`, `obtained\_marks`) VALUES (2, 'Erling Haaland', '01000000002', 'A+ve', 'Math', 93),

- (4, 'Jack Grealish', '01000000004', 'AB+ve', 'Math', 87),
- (6, 'Bernardo Silva', '01000000006', 'O-ve', 'Math', 90),
- (8, 'Riyad Mahrez', '01000000008', 'B+ve', 'Math', 84),
- (10, 'Phil Foden', '01000000010', 'A-ve', 'Math', 89);

#### Even Table:

id	name	contact	blood_group	major_subject	obtained_marks
2	Erling Haaland	01000000002	A+ve	Math	93
4	Jack Grealish	01000000004	AB+ve	Math	87
6	Bernardo Silva	01000000006	O-ve	Math	90
8	Riyad Mahrez	01000000008	B+ve	Math	84
10	Phil Foden	0100000010	A-ve	Math	89

#### **Updating a row in table:**

```
UPDATE `odd`
SET `id` = 9,
    `name` = 'Dani Olmo',
    `contact` = '01000000009',
    `blood_group` = 'O-ve',
    `major_subject` = 'Math',
    `obtained_marks` = 82
WHERE `id` = 9;
```

# Output:

	id	name	contact	blood_group	major_subject	obtained_marks
ı	1	Lionel Messi	01000000001	O+ve	Math	95
ı	3	Pedri	01000000003	B+ve	Math	85
l	5	Lamine Yamal	01000000005	AB+ve	Math	88
ı	7	Robert Lewandowski	01000000007	A+ve	Math	90
ı	9	Dani Olmo	01000000009	O-ve	Math	82

# Deleting a row in the table:

DELETE FROM even WHERE id = 1;

## Output:

id	name	contact	blood_group	major_subject	obtained_marks
4	Jack Grealish	01000000004	AB+ve	Math	87
6	Bernardo Silva	01000000006	O-ve	Math	90
8	Riyad Mahrez	01000000008	B+ve	Math	84
10	Phil Foden	01000000010	A-ve	Math	89

## Drop a column:

ALTER TABLE `even`
DROP COLUMN `blood\_group`;

id	name	contact	major_subject	obtained_marks
4	Jack Grealish	01000000004	Math	87
6	Bernardo Silva	01000000006	Math	90
8	Riyad Mahrez	01000000008	Math	84
10	Phil Foden	01000000010	Math	89

## Rename a column:

ALTER TABLE `even` CHANGE `contact` `phone\_number` VARCHAR(255);

id	name	phone_number	major_subject	obtained_marks
4	Jack Grealish	01000000004	Math	87
6	Bernardo Silva	01000000006	Math	90
8	Riyad Mahrez	01000000008	Math	84
10	Phil Foden	01000000010	Math	89