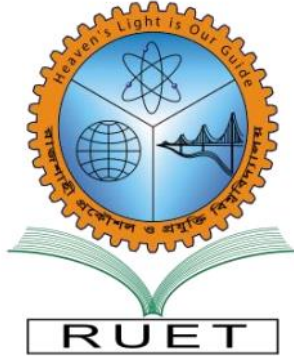


Heaven's Light is Our Guide

Rajshahi University of Engineering and Technology



Department of Electrical & Computer Engineering

Lab Report No : 01

Course Title : Data Base Systems Sessional

Course Code : ECE-2216

Submission Date : 17 September, 2024

Submitted by

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Submitted to

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Experiment No.: 01

1.1 Experiment Name: Create a database system for Class 21 where there are 2 tables for odd and even batch, containing the following information for 10 students (Id, Name, Contact, Blood Group, Major Subject, Obtained Marks).

1.2 Objective: The objective is to design and implement a database with two tables (Odd_Batch and Even_Batch), insert student data, and use SQL queries to retrieve and combine the information while following specific naming conventions and ID formats.

1.3 Code And Output:

♦ Odd Batch Table:

```
CREATE TABLE Odd_Batch (  
    Id INT PRIMARY KEY,  
    Name VARCHAR(50),  
    Contact VARCHAR(15),  
    Blood_Group VARCHAR(5),  
    Major_Subject VARCHAR(50),  
    Obtained_Marks INT  
);
```

```

INSERT INTO Odd_Batch (Id, Name, Contact, Blood_Group, Major_Subject, Obtained_Marks)
VALUES
(2110001, 'Rahim Uddin', '01711-123456', 'A+', 'Computer Science', 85),
(2110003, 'Shafiqul Islam', '01711-234567', 'B+', 'Mathematics', 90),
(2110005, 'Mizanur Rahman', '01711-345678', 'O-', 'Physics', 78),
(2110007, 'Anika Chowdhury', '01711-456789', 'AB+', 'Chemistry', 88),
(2110009, 'Sumaiya Begum', '01711-567890', 'A-', 'Biology', 92);

```

Output(Odd) :

Id	Name	Contact	Blood_Group	Major_Subject	Obtained_Marks
2110001	Rahim Uddin	01711-123456	A+	Computer Science	85
2110003	Shafiqul Islam	01711-234567	B+	Mathematics	90
2110005	Mizanur Rahman	01711-345678	O-	Physics	78
2110007	Anika Chowdhury	01711-456789	AB+	Chemistry	88
2110009	Sumaiya Begum	01711-567890	A-	Biology	92

♦ **Even Batch Table:**

```

CREATE TABLE Even_Batch (
    Id INT PRIMARY KEY,
    Name VARCHAR(50),
    Contact VARCHAR(15),
    Blood_Group VARCHAR(5),
    Major_Subject VARCHAR(50),
    Obtained_Marks INT

```

);

```
INSERT INTO Even_Batch (Id, Name, Contact, Blood_Group, Major_Subject, Obtained_Marks)
VALUES
```

```
(2110002, 'Abdul Karim', '01712-123456', 'B-', 'Economics', 80),
(2110004, 'Nasrin Akter', '01712-234567', 'O+', 'Psychology', 75),
(2110006, 'Farzana Haque', '01712-345678', 'A+', 'Engineering', 88),
(2110008, 'Zahid Hasan', '01712-456789', 'AB-', 'Philosophy', 85),
(2110010, 'Mehreen Islam', '01712-567890', 'B+', 'Sociology', 89);
```

Output(Even):

Id	Name	Contact	Blood_Group	Major_Subject	Obtained_Marks
2110002	Abdul Karim	01712-123456	B-	Economics	80
2110004	Nasrin Akter	01712-234567	O+	Psychology	75
2110006	Farzana Haque	01712-345678	A+	Engineering	88
2110008	Zahid Hasan	01712-456789	AB-	Philosophy	85
2110010	Mehreen Islam	01712-567890	B+	Sociology	89

1.4 Query to Retrieve Data:

```
SELECT * FROM Odd_Batch UNION SELECT * FROM Even_Batch ORDER BY Id;
```

1.5 Final output :

Id	Name	Contact	Blood_Group	Major_Subject	Obtained_Marks
2110001	Rahim Uddin	01711-123456	A+	Computer Science	85
2110002	Abdul Karim	01712-123456	B-	Economics	80
2110003	Shafiqul Islam	01711-234567	B+	Mathematics	90
2110004	Nasrin Akter	01712-234567	O+	Psychology	75
2110005	Mizanur Rahman	01711-345678	O-	Physics	78
2110006	Farzana Haque	01712-345678	A+	Engineering	88
2110007	Anika Chowdhury	01711-456789	AB+	Chemistry	88
2110008	Zahid Hasan	01712-456789	AB-	Philosophy	85
2110009	Sumaiya Begum	01711-567890	A-	Biology	92
2110010	Mehreen Islam	01712-567890	B+	Sociology	89