

*“Heaven's Light is Our Guide”*

# **Rajshahi University of Engineering & Technology**

## **Department of Electrical and Computer Engineering**



Course Code: ECE-2216

Course Title: Database Systems Sessional

Experiment No: 01

Date of Submission: 17.09.2024

**Submitted By**

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Department of ECE, RUET

**Submitted to**

Oishi Jyoti

Assistant Professor

Department of ECE, RUET

## **Experiment No: 1**

### **Experiment Name:**

Create a database system for class 21 where there are 2 table for odd and even batch containing info for 10 students.

-Id, Name, Contact, Blood Group, Major Subject, Obtained Marks (100)

### **Objective:**

- Gain an understanding of database systems using XAMPP.
- Explore SQL and NoSQL database systems and their differences.
- Differentiate between Data Manipulation Language (DML) and Data Definition Language (DDL) in SQL.
- Learn query languages to create tables and insert data into a database system.
- Apply SQL queries to solve real-life scenarios and modify data within the database.

### **Query and Output:**

Creation of a database with two separate tables named “Odd\_Students” and “Even\_Students,” containing relevant student information:

```
CREATE TABLE even_students (  
  
st_id INT PRIMARY KEY AUTO_INCREMENT,  
  
st_name VARCHAR(100) NOT NULL,  
  
contact VARCHAR(15),  
  
bloodgroup VARCHAR(5),  
  
major_subject TEXT(100),  
  
obtained_mark INT(255) NOT NULL  
  
);
```

Server: 127.0.0.1:3307 » Database: series\_21

Structure SQL Search Query Export Import Operations Privileges Routines

**Filters**

Containing the word:

| Table   | Action                                      | Rows     | Type          | Collation                 | Size            |
|---|---|----------|---------------|---------------------------|-----------------|
| <input type="checkbox"/> <b>even_students</b> | ★ Browse Structure Search Insert Empty Drop | 0        | InnoDB        | utf8mb4_general_ci        | 16.0 KiB        |
| <input type="checkbox"/> <b>odd_students</b>  | ★ Browse Structure Search Insert Empty Drop | 0        | InnoDB        | utf8mb4_general_ci        | 16.0 KiB        |
| <b>2 tables</b>                               | <b>Sum</b>                                  | <b>0</b> | <b>InnoDB</b> | <b>utf8mb4_general_ci</b> | <b>32.0 KiB</b> |

☐ Check all

[Print](#)
[Data dictionary](#)

[Create new table](#)

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
SELECT * FROM `even_students`
```

☐ Profiling
 [\[ Edit inline \]](#)
[\[ Edit \]](#)
[\[ Explain SQL \]](#)
[\[ Create PHP code \]](#)
[\[ Refresh \]](#)

| st_id | st_name | contact | bloodgroup | major_subject | obtained_mark |
|-------|---------|---------|------------|---------------|---------------|
|-------|---------|---------|------------|---------------|---------------|

**Query results operations**

```
INSERT INTO Odd_Students (st_id,st_name, contact, bloodgroup, major_subject, obtained_mark) VALUES ('2110002','Rima', '1239876543', 'O+', 'History', 70), ('2110004','Rani', '3216549870', 'A-', 'English', 82), ('2110006','Risa', '4567890123', 'B+', 'Philosophy', 78), ('2110008','Tisa', '7890123456', 'AB-', 'Economics', 89), ('2110010','Nisa', '1472583690', 'O-', 'Political Science', 91);
```

```
SELECT * FROM `odd_students`
```

☐ Profiling
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[\[ Explain SQL \]](#)
[\[ Create PHP code \]](#)
[\[ Refresh \]](#)

☐ Show all |
 Number of rows:  |
 Filter rows:  |
 Sort by key:

**Extra options**

|   | st_id   | st_name | contact    | bloodgroup | major_subject     | obtained_mark |
|---|---------|---------|------------|------------|-------------------|---------------|
| <input type="checkbox"/> Edit Copy Delete | 2110001 | Sara    | 1239876543 | O+         | History           | 70            |
| <input type="checkbox"/> Edit Copy Delete | 2110003 | Jui     | 3216549870 | A-         | English           | 82            |
| <input type="checkbox"/> Edit Copy Delete | 2110005 | Sinha   | 4567890123 | B+         | Philosophy        | 78            |
| <input type="checkbox"/> Edit Copy Delete | 2110007 | Lija    | 7890123456 | AB-        | Economics         | 89            |
| <input type="checkbox"/> Edit Copy Delete | 2110009 | Mim     | 1472583690 | O-         | Political Science | 91            |

☐ Check all
 
[Edit](#)
[Copy](#)
[Delete](#)
[Export](#)

```
INSERT INTO `even_students`(`st_id`, `st_name`, `contact`, `bloodgroup`, `major_subject`,  
`obtained_mark`) VALUES
```

```
('2110001','Rima', '1239876543', 'O+', 'History', 70),  
('2110003','Raisa', '3216549870', 'A-', 'English', 82),  
('2110005','Risa', '4567890123', 'B+', 'Philosophy', 78),  
('2110007','Tisa', '7890123456', 'AB-', 'Economics', 89),  
('2110009','Nisa', '1472583690', 'O-', 'Political Science', 91);
```

```
SELECT * FROM `even_students`
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows:  | Filter rows:  | Sort by key:

Extra options

| <div><div>←T→</div><div></div></div> |  |  |  | st_id   | st_name   | contact   | bloodgroup  | major_subject     | obtained_mark |
|--------------------------------------|--|--|--|---|---|---|---|-------------------|---------------|
| <input type="checkbox"/>             |  Edit |  Copy |  Delete | 2110001   | Rima  | 1239876543  | O+  | History           | 70            |
| <input type="checkbox"/>             |  Edit |  Copy |  Delete | 2110003   | Raisa   | 3216549870  | A-  | English           | 82            |
| <input type="checkbox"/>             |  Edit |  Copy |  Delete | 2110005   | Risa  | 4567890123  | B+  | Philosophy        | 78            |
| <input type="checkbox"/>             |  Edit |  Copy |  Delete | 2110007   | Tisa  | 7890123456  | AB-   | Economics         | 89            |
| <input type="checkbox"/>             |  Edit |  Copy |  Delete | 2110009   | Nisa  | 1472583690  | O-  | Political Science | 91            |
| <div>↑</div>                         | <div><input type="checkbox"/> Check all</div>  | <div>With selected:</div>  |  | <div> Edit</div> | <div> Copy</div> | <div> Delete</div> | <div> Export</div> |                   |               |