



*"Heaven's Light is Our Guide"*

**Rajshahi University of Engineering &  
Technology**  
**Department of Electrical & Computer Engineering**

**Course Title**

**Data Base Systems Sessional**

**Course No: ECE 2216**

**Lab Report No. 01**

**RUET**

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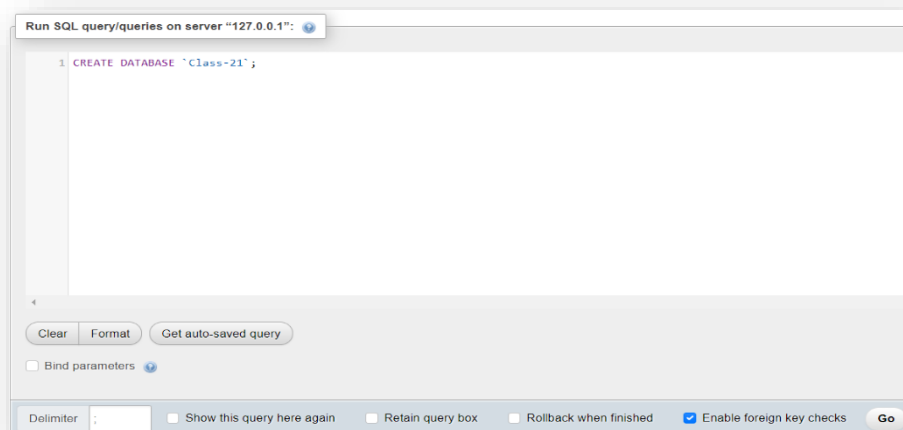
## Experiment No: 01

**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.

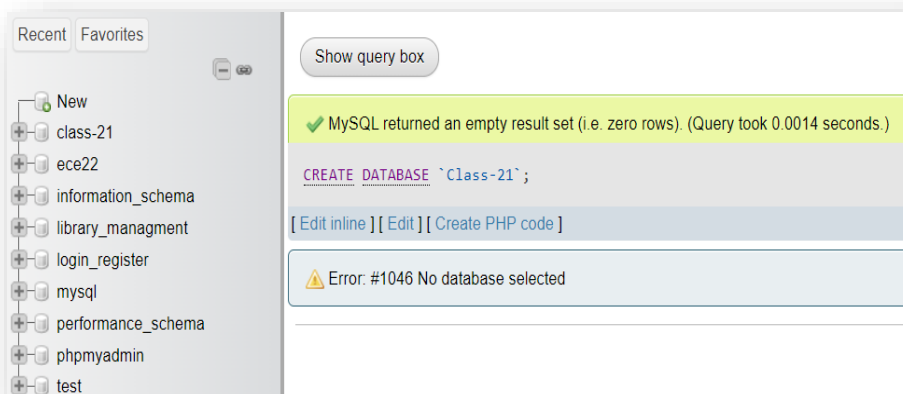
**Objective:** The objective of this lab is to design and implement a structured database system using SQL, focusing on Data Definition Language (DDL) and Data Manipulation Language (DML) operations. The goal is to gain practical experience in creating, modifying, and managing database schemas through DDL commands such as CREATE, ALTER, DROP, TRUNCATE, DELETE to manipulate data within these structures using DML commands like INSERT, UPDATE, DELETE and SELECT. This exercise aims to provide a clear understanding of how to define database tables, enforce constraints, and perform basic data handling tasks, thereby equipping students with essential skills for managing databases in real-world applications.

### Query and Output:

Creating a database named Class-21:



Output:



Creating a Table for odd\_semester students:

```
Run SQL query/queries on database class-21:

1 CREATE TABLE odd_semester(
2
3     ID INT,
4     Name VARCHAR(255),
5     Contact VARCHAR(255),
6     Blood_Group VARCHAR(255),
7     Major_subject VARCHAR(255),
8     Obtained_Marks INT
9
10 )
```

Clear Format Get auto-saved query

☐ Bind parameters

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Output:

Recent Favorites

- New
- class-21
  - New
  - odd\_semester
- ece22
- information\_schema
- library\_management
- login\_register
  - New
  - book
  - book\_requests
  - users
- mysql
- performance\_schema
- phpmyadmin
- test

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

SELECT \* FROM `odd\_semester`

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

ID	Name	Contact	Blood_Group	Major_subject	Obtained_Marks
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Query results operations

Create view

Inserting 10 students data in the odd\_semester table:

```
Run SQL query/queries on table class-21.odd_semester:

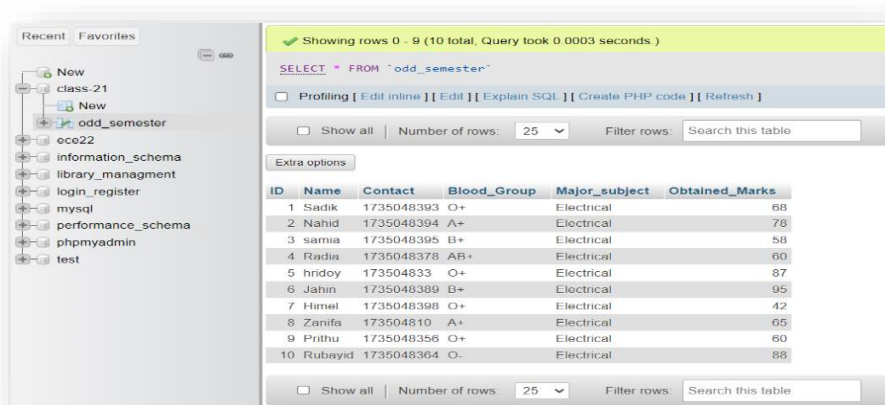
1 INSERT INTO odd_semester (ID,Name,Contact,Blood_Group,Major_subject,Obtained_Marks) VALUES
2 (1,'Sadik',01735048393,'O+', 'Electrical',68),
3 (2,'Nahid',01735048394,'A+', 'Electrical',78),
4 (3,'samia',01735048395,'B+', 'Electrical',58),
5 (4,'Radia',01735048378,'AB+', 'Electrical',60),
6 (5,'hridoy',01735048333,'O+', 'Electrical',87),
7 (6,'Jahin',01735048389,'B+', 'Electrical',95),
8 (7,'Himel',01735048398,'O+', 'Electrical',42),
9 (8,'Zanifa',0173504810,'A+', 'Electrical',65),
10 (9,'Prithu',01735048356,'O+', 'Electrical',60),
11 (10,'Rubayid',01735048364,'O-', 'Electrical',88)
```

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Output:




Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.)

SELECT \* FROM `odd\_semester`

Number of rows: 25 Filter rows: Search this table

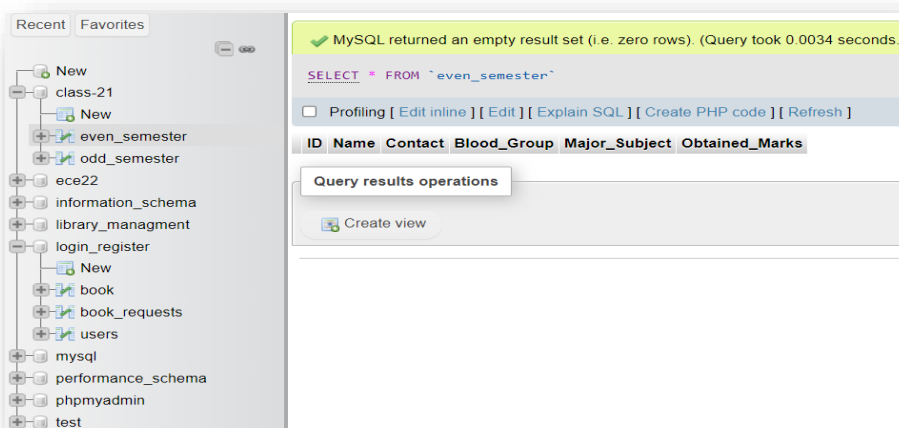
ID	Name	Contact	Blood_Group	Major_subject	Obtained_Marks
1	Sadik	1735048393	O+	Electrical	68
2	Nahid	1735048394	A+	Electrical	78
3	samia	1735048395	B+	Electrical	58
4	Radia	1735048378	AB+	Electrical	60
5	hridoy	173504833	O+	Electrical	87
6	Jahin	1735048389	B+	Electrical	95
7	Himel	1735048398	O+	Electrical	42
8	Zanifa	173504810	A+	Electrical	65
9	Prithu	1735048356	O+	Electrical	60
10	Rubayid	1735048364	O-	Electrical	88

Creating a Table for even\_semester students:



```
1 CREATE TABLE `even_semester` (  
2  
3   ID INT,  
4   Name VARCHAR(255),  
5   Contact INT,  
6   Blood_Group VARCHAR(255),  
7   Major_Subject VARCHAR(255),  
8   Obtained_Marks INT  
9 )  
10 )
```

Output:



MySQL returned an empty result set (i.e. zero rows). (Query took 0.0034 seconds.)

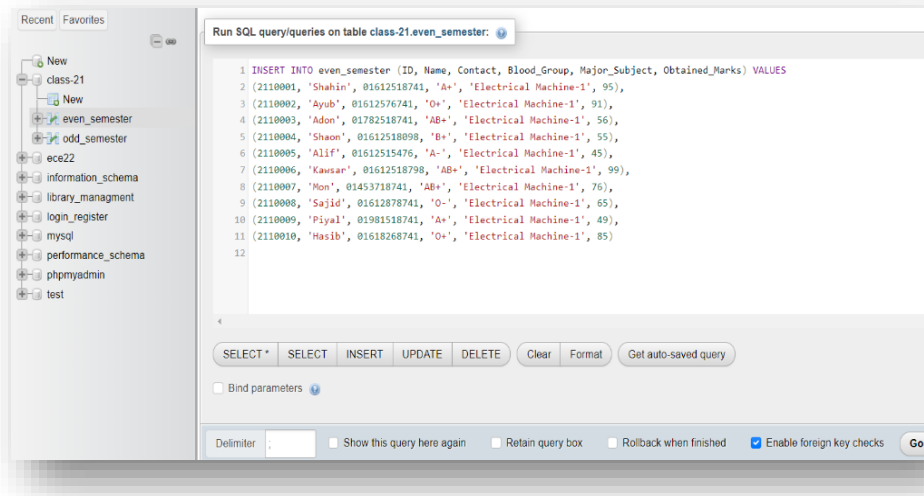
SELECT \* FROM `even\_semester`

ID	Name	Contact	Blood_Group	Major_Subject	Obtained_Marks
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Query results operations

Create view

Inserting 10 students data in the even\_semester table:



Output:

