"Heaven's Light is Our Guide"

Rajshahi University of Engineering & Technology, Rajshahi



Department of Electrical & Computer Engineering

Lab Report

Course Code : ECE 2216

Course Title : Data base systems sessional

Experiment No. : 01

Submission Date: 17-09-24

Submitted To-Oishi Jyoti

Assistant Professor,

ECE, RUET

Submitted By-

Zubayer Jahin

Roll: 2110006

Experiment No.: 01

Name of the experiment: Learning and implementation of DDL and DML queries in database

Objectives:

1. Learning DDL Operations:

To understand how to create and manage the structure of a database. This includes actions like creating tables, changing their structure, renaming them, deleting them, or clearing all data from a table without deleting the structure.

2. Learning DML Operations:

To practice how to add, update, and delete data in the database tables. These operations are focused on handling the actual information stored in the tables.

3. Practicing SQL Commands:

To become skilled at writing and using SQL queries for both DDL and DML operations, ensuring we understand how these commands work and what they do to the database.

4. Seeing the Impact of Each Operation:

To observe what happens when we use different commands—like how creating a table changes the database structure or how updating a record changes the stored data.

5. Building a Full Database System:

To put everything together by creating, managing, and modifying a complete database, using DDL and DML commands to handle both the structure and the data efficiently.

Queries and Output:

• Creating Database

1 create database series_21

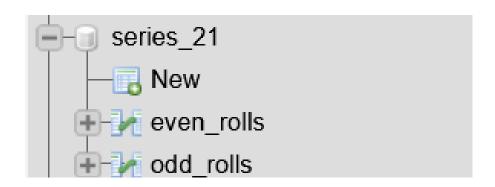
Output:



• Crearing tables in database

```
1 create table odd_rolls (
 2
       id int primary key,
 3
       name varchar(255),
       contact varchar(255),
 4
 5
       blood_group varchar(255),
 6
       major_sub varchar(255),
 7
       obtained_marks int
 8);
 9 create table even_rolls (
       id int primary key,
10
       name varchar(255),
11
       contact varchar(255),
12
       blood group varchar(255),
13
       major_sub varchar(255),
14
       obtained_marks int
15
16);
```

Output:



• Insert Data in table

```
insert into odd_rolls (id, name, contact, blood_group, major_sub, obtained_marks) values
(2110001, 'Sadik', '1234567890', 'A+', 'data structures', 85),
(2110003, 'Samia', '1234567891', 'B+', 'operating systems', 78),
(2110005, 'Hridoy', '1234567892', 'O+', 'database systems', 92),
(2110007, 'Himel', '1234567893', 'AB-', 'computer networks', 88),
(2110009, 'Prithu', '1234567894', 'A-', 'artificial intelligence', 95);

insert into even_rolls (id, name, contact, blood_group, major_sub, obtained_marks) values
(2110002, 'Nahid', '1234567895', 'B-', 'data structures', 80),
(2110004, 'Radia', '1234567896', 'A+', 'operating systems', 76),
(2110006, 'Jahin', '1234567897', 'O+', 'database systems', 90),
(2110008, 'Unknown', '1234567898', 'AB+', 'computer networks', 85),
(2110010, 'Rubaid', '1234567899', 'B+', 'artificial intelligence', 89);
```

Output:



• Update Data in table

```
update even_rolls
set obtained_marks =100
where id=2110004;
```

Output:



• Delete data in table

1 delete from even_rolls 2 where id= 2110008

Output:



• Alter table

```
1 alter table even_rolls add photo longblob ;
```

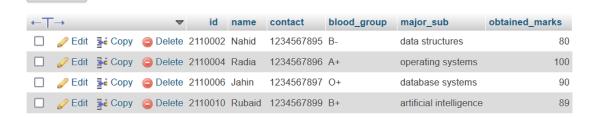
output:



• Drop column

1 alter table even_rolls drop column photo

Output:



• truncate table

```
1 truncate table odd_rolls
```

Output:

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

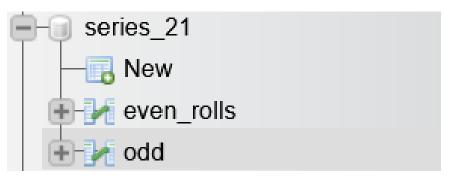
id name contact blood_group major_sub obtained_marks

Query results operations
```

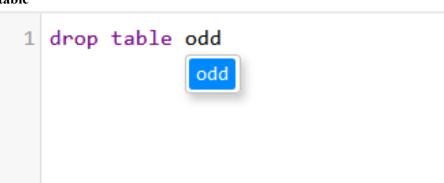
• Rename Table

```
1 rename table odd_rolls to odd_odd_rolls
```

Output:



• Drop table



Output:

