



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Fall, Year:2023), B.Sc. in CSE (Day)

Lab Report NO: 01
Course Title: Database Lab
Course Code: CSE-210 Section: D12

Lab Experiment Name: Introduction to Database and MySQL & Managing MySQL Databases and Tables in MySQL

Student Details

Name		ID
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Lab Date : 10-03-2023
Submission Date : 10-11-2023
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Lab Report Status

Marks:

Signature:.....

Comments:.....

Date:.....

1.1 PROBLEM - 1

- Create a Database with five or six tables.
- Use all the basic database described in table 1.

1.2 OBJECTIVES/AIM

The main objectives of this lab exercise are:

- To understand the concept of creating database.
- To implement 5 tables with columns.
- To implement all datatype in table5 table.

1.3 IMPLEMENTATION

Code:

```
CREATE DATABASE database1;
```

```
CREATE TABLE table1 (roll int, name varchar(20), age int, gender varchar(10));
```

```
CREATE TABLE table2 (roll int, name varchar(20), age int, gender varchar(10));
```

```
CREATE TABLE table3 (roll int, name varchar(20), age int, gender varchar(10));
```

```
CREATE TABLE table4 (roll int, name varchar(20), age int, gender varchar(10));
```

```
CREATE TABLE table5 (first_name char(20), last_name varchar(20), id int, roll tinyint,  
registration_id bigint, GPA float, CGPA double, student_status boolean, DOB date, passing_year  
year);
```

1.4 TEST RESULT / OUTPUT



Figure 1: Database1 with 5 tables. table5 column structure.

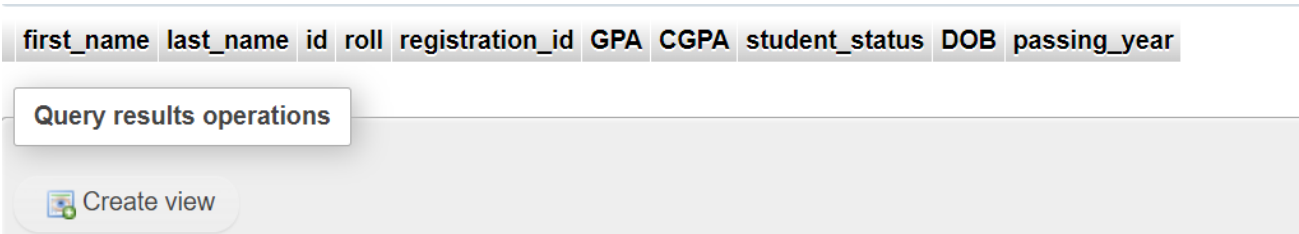


Figure 2: table5 column structure.

1.5 ANALYSIS AND DISCUSSION

The code initiates the creation of a database named "database1" and defines five tables within it. These tables, named table1 to table5, serve as structured containers for storing individual information. The first four tables consist of columns for roll numbers, names, ages, and genders. Table5 has a more intricate structure, with diverse data types to accommodate comprehensive personal information, including names, IDs, academic data, date of birth, and graduation year. The tables establish the groundwork for data storage, but additional actions, such as data population and query logic, are required to realize the database's intended functionality.

2.1 PROBLEM – 2

- 1. • Create a Database with five tables.

2. • Insert five to ten tuples in each table.
3. • Browse each table and take a snapshot.

2.2 OBJECTIVES/AIM

The main objectives of this lab exercise are:

- To understand how to insert data in tables.
- To understand how implement PRIMARY KEY.

2.3 IMPLEMENTATION

Code:

```
CREATE TABLE database2;  
CREATE TABLE student_info (id int PRIMARY KEY, name varchar(20), gender varchar(15) );  
CREATE TABLE teacher_info (id int PRIMARY KEY, name varchar(20), gender varchar(15) );  
CREATE TABLE staff_info (id int PRIMARY KEY, name varchar(20), gender varchar(15) );  
CREATE TABLE manager_info (id int PRIMARY KEY, name varchar(20), gender varchar(15) );  
CREATE TABLE driver_info (id int PRIMARY KEY, name varchar(20), gender varchar(15) );
```

```
INSERT INTO student_info  
VALUES (221902113, "Raiyan Jiyon", "male"), (221902114, "Sabbir Ahmed", "male"),  
(221902115, "Akash", "male"), (221902116, "Ishaq Ahammed", "male"), (221902117, "Tamim  
Zia", "male");
```

```
INSERT INTO teacher_info  
VALUES (221, "Raiyan", "male"), (222, "Sanjida", "female"), (223, "Akash", "male"), (224,  
"Ishaq Ahammed", "male"), (225, "Tamim Zia", "male");
```

```
INSERT INTO staff_info  
VALUES (221, "Rajid", "male"), (222, "Rony", "female"), (223, "Akash", "male"), (224, "Ishaq  
", "male"), (225, "Zia", "male");
```

```
INSERT INTO manager_info  
VALUES (221, "Sumon", "male"), (222, "Rony", "female"), (223, "Mehedi", "male"), (224,  
"Islam", "male"), (225, "Zia", "male");
```

```
INSERT INTO driver_info
VALUES (11, "Arif", "male"), (22, "Rony", "female"), (33, "Mehedi", "male"), (44, "Miraz",
"male"), (55, "Ziaur", "male");
```

2.4 TEST RESULT / OUTPUT

<div><div><div></div><div></div><div></div></div></div>				id	name	gender
<input type="checkbox"/>	<div><div></div><div>Edit</div></div>	<div><div></div><div>Copy</div></div>	<div><div></div><div>Delete</div></div>	221902113	Raiyan Jiyon	male
<input type="checkbox"/>	<div><div></div><div>Edit</div></div>	<div><div></div><div>Copy</div></div>	<div><div></div><div>Delete</div></div>	221902114	Sabbir Ahmed	male
<input type="checkbox"/>	<div><div></div><div>Edit</div></div>	<div><div></div><div>Copy</div></div>	<div><div></div><div>Delete</div></div>	221902115	Akash	male
<input type="checkbox"/>	<div><div></div><div>Edit</div></div>	<div><div></div><div>Copy</div></div>	<div><div></div><div>Delete</div></div>	221902116	Ishaq Ahammed	male
<input type="checkbox"/>	<div><div></div><div>Edit</div></div>	<div><div></div><div>Copy</div></div>	<div><div></div><div>Delete</div></div>	221902117	Tamim Zia	male

Figure 3: student_info

















				id	name	gender
<input type="checkbox"/>	 Edit	 Copy	 Delete	221	Raiyan	male
<input type="checkbox"/>	 Edit	 Copy	 Delete	222	Sanjida	female
<input type="checkbox"/>	 Edit	 Copy	 Delete	223	Akash	male
<input type="checkbox"/>	 Edit	 Copy	 Delete	224	Ishaq Ahammed	male
<input type="checkbox"/>	 Edit	 Copy	 Delete	225	Tamim Zia	male

Figure 4: teacher_info

















					id	name	gender
<input type="checkbox"/>		Edit		Copy		Delete	221 Rajid male
<input type="checkbox"/>		Edit		Copy		Delete	222 Rony female
<input type="checkbox"/>		Edit		Copy		Delete	223 Akash male
<input type="checkbox"/>		Edit		Copy		Delete	224 Ishaq male
<input type="checkbox"/>		Edit		Copy		Delete	225 Zia male

Figure 5: staff_info

















					id	name	gender
<input type="checkbox"/>		Edit		Copy		Delete	221 Sumon male
<input type="checkbox"/>		Edit		Copy		Delete	222 Rony female
<input type="checkbox"/>		Edit		Copy		Delete	223 Mehedi male
<input type="checkbox"/>		Edit		Copy		Delete	224 Islam male
<input type="checkbox"/>		Edit		Copy		Delete	225 Zia male

Figure 6: manager_info

















					id	name	gender
<input type="checkbox"/>		Edit		Copy		Delete	11 Arif male
<input type="checkbox"/>		Edit		Copy		Delete	22 Rony female
<input type="checkbox"/>		Edit		Copy		Delete	33 Mehedi male
<input type="checkbox"/>		Edit		Copy		Delete	44 Miraz male
<input type="checkbox"/>		Edit		Copy		Delete	55 Ziaur male

Figure 7: driver_info

2.5 ANALYSIS AND DISCUSSION

The objective of the provided code is to create a database and several related tables for storing information about students, teachers, staff, managers, and drivers. The aim is to establish a structured database to manage data for these different roles. This can be useful in educational institutions or organizations where tracking and managing various individuals' details is essential.

Three key steps to achieve this objective are:

1. Database Creation: The first step involves creating a database named 'database2' to serve as the container for all the related tables. This step ensures that there is a dedicated space for organizing and storing information efficiently.

2. Table Creation: Subsequently, tables are created for each role, namely 'student_info,' 'teacher_info,' 'staff_info,' 'manager_info,' and 'driver_info.' These tables are defined with specific fields such as 'id,' 'name,' and 'gender' to accurately capture and categorize data for each role.

3. Data Insertion: To populate these tables, data is inserted for sample individuals in each category, with their respective 'id,' 'name,' and 'gender.' This step initializes the database with initial information, making it ready for further data management and analysis.

Overall, the goal is to establish a well-structured database with appropriate tables and initial data, providing a foundation for storing and managing information about students, teachers, staff, managers, and drivers, facilitating various data-related tasks within the designated system.