Lab Sheet: 06 – Part 1
Date:

Title: Table Modification in MySQL.

Aims:
- Adding a column
- Removing a column
- Renaming a column
- Changing a column data type
- Renaming a table
- Dropping a table
- Dropping a database

Tasks:

Question 01:

1. Create a database called **ICTDepartment.**

2. Create a table called **Student** with following details.

Col_Name	Data Type
Std_ID	INT
Std_Name	VARCHAR (20)
Phone	INT
Email	VARCHAR (40)
City	VARCHAR (20)

3. Add the new columns Subjects and Credits in student table.

Col_Name	Data Type
Subjects	VARCHAR (20)
Credits	INT

4. Insert the following records into the Table students.

Std_id	Std_name	Phone	Email	City	Subject	Credits
1	Perera	77745445	perera@gmail.com	Gampaha	DBMS	3
2	Peter	77234569	peter@yahoo.com	Colombo	AI	2
3	Hansani	71345464	hansani@gmail.com	Galle	ML	1
4	Mala	77337894	mala@gmail.com	Jaffna	ADBMS	3
5	Kavindu	77789780	kavindu@yahoo.com	Kaluthara	AI	2

5. Rename the column Phone to Mobile in the student table.

6. Change the data type of the City column to VARCHAR(50) in the Student table.

7. In the student table, change the column Std_name to First_name with a data type of VARCHAR(30) and move it to the first position in the table.

8. Drop the Email column from the Student table.

9. Rename the table Student as Undergraduates.

10. Drop the table Undergraduates.

11. Drop the database ITDepartment.

Question 02:

1. Create a database called **University** and create a table called **Professors** and insert the following records.

id	Name	login	Age	Salary
005	Dave	dave@cs	44	320 000
026	Smith	jones@cs	42	360 000
034	Mevan	madayan@math	29	150 000
057	Dinesha	dinesha@IT	32	220 000
058	Sandun	sandun@OR	50	540 000

2. Add a new column Experience_Years after the Age field in the Professor table.

3. In the Professors table, set the default value of the Experience_Years column to 'Pending'.

4. Remove default value of Experience_Years Column

5. Rename the id field as emp_id.

Discussion:

- Best Practices in Database Schema Design