Experiment No 3 Database Management System Lab 2021-22 Faculty: Sana Shaikh

Class: SE Comp **Experiment No: 3**

Name: Ashish Jha Roll No. 27 Batch: B

| Topic: | Create a database using Data Definition Language (DDL) commands for the assigned system. |
|-----------------------------|--|
| Prereq uisite: | Knowledge of SQL syntax. |
| Mappi ng With COs: | CSL402.2 |
| Object ive: | Execute all Data Definition Language commands and Table Creation and its management. |
| Outco me: | Student should be able to: -Explain the use of DDL commands. -Create new database tables by applying these commands Manage the structure of database. |
| Instru ctions: | This experiment is a compulsory experiment. All the students are required to perform this experiment individually. Implement DDL commands for the assigned system. |

Deliver ables:

For Submissions:

1. List down all DDL commands and write syntax of each DDL command.

ANS:

1. CREATE - Creates object in the database / database object.

Syntax: CREATE TABLE < Table Name > (list of attributes along with datatypes);

2. ALTER : Alters the structure of database / database object.

Syntax : ALTER TABLE < Table name > new changes;

3. DROP: Deletes object from the database

Syntax: DROP TABLE <Table_name>

4. TRUNCATE: Removes all the records from a table permanently

Syntax: TRUNCATE TABLE

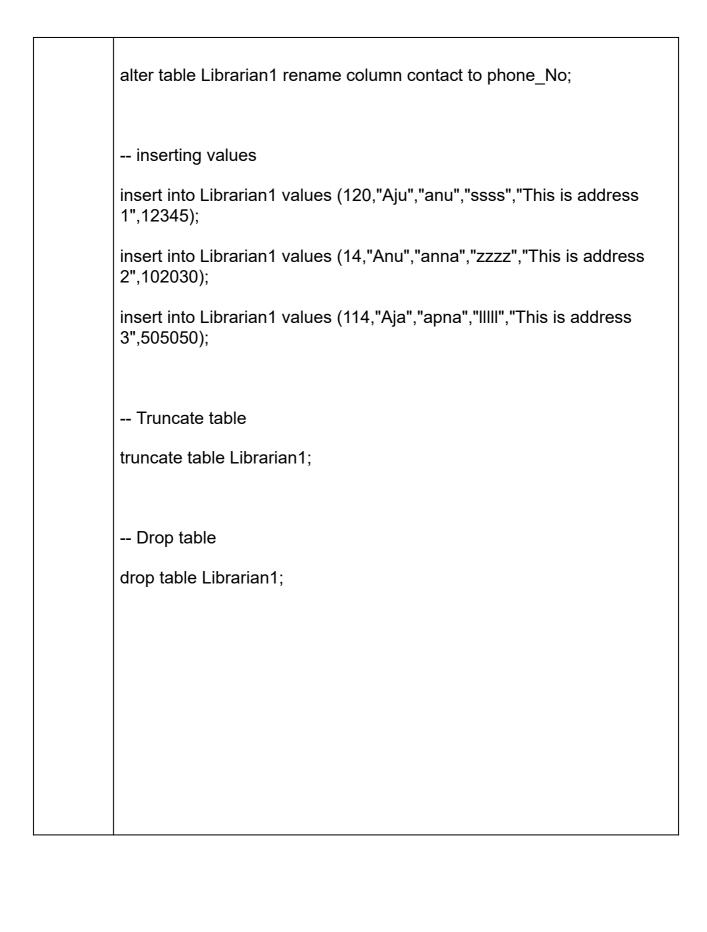
5. RENAME: Renames an object / attribute

Syntax : ALTER TABLE < Table name > rename column < Old name > to < new name >;

- 2. Implemented all DDL queries with their output.
- -- to set database

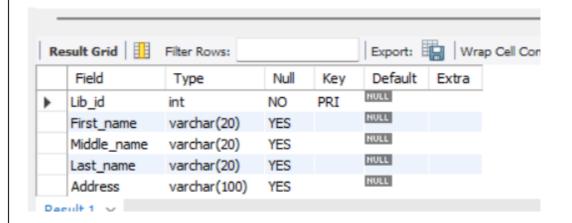
use mysql

```
-- Creating table
CREATE TABLE Librarian1(
Lib_id INT NOT NULL,
First_name VARCHAR(20),
Middle_name VARCHAR(20),
Last_name VARCHAR(20),
Address VARCHAR(100),
PRIMARY KEY (Lib_id)
);
-- to view the schema of table
DESC Librarian1;
-- to view the contents of table
select * from Librarian1;
-- to add new column to existing table
alter table Librarian1 add column contact int(10);
-- Renaming a column
```

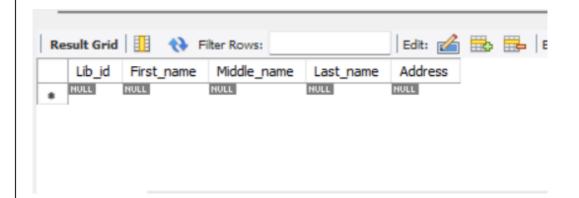




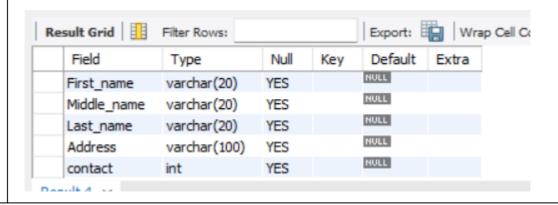
Logical view



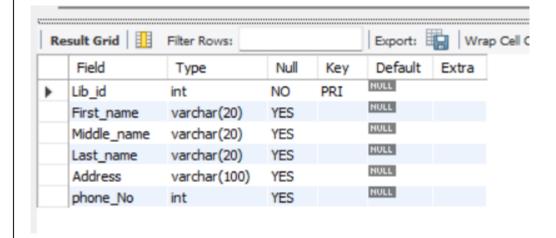
Tabular view



2. Adding new column (alter cammand)



3. Renaming a column (Alter command=d)



4. Inserting value to column

Error: if try to insert duplicate values in primary key:

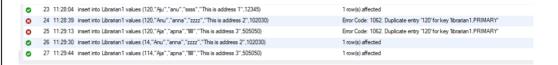
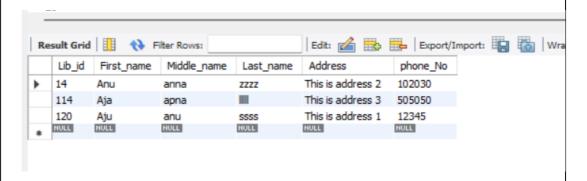
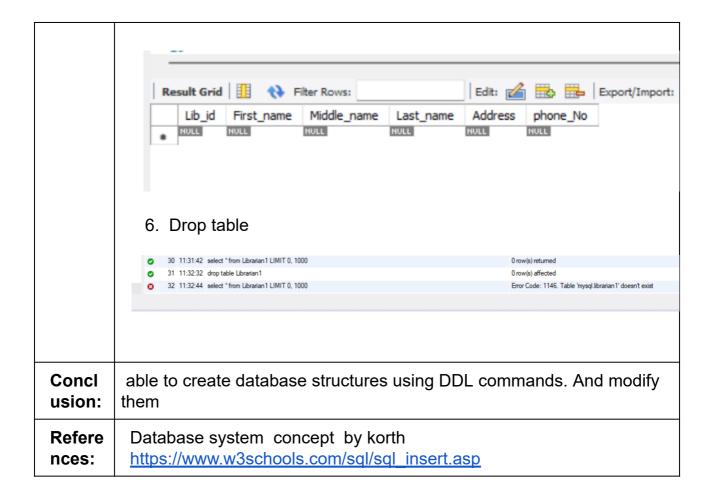


Table contents after inserting three values to it



5. Truncate table



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Don Bosco Institute of Technology

Department of Computer Engineering

Assessment Rubric for Experiment No. 3

Title of Experiment : Create a database using DDL commands Performance

Date: 13-03-2022: 2nd Year and IVth Semester Submission Date: 13-03-2022

Name: Ashish Jha Batch: B

Roll No.: 27

| Sr. No. | Criteria | 1 Marks | 2 Marks | 3 Marks | 4 Marks | 5 Marks |
|------------|-----------------------|---|---|---|--|--|
| 1 | Execution | Executed 10-30% queries based on DDL command s. | Executed 31-50% queries based on DDL commands | Executed 51-70% queries based on DDL commands | Executed 71- 89% queries based on DDL command s. | Executed 90-100% queries based on DDL commands |
| 2 | Documentati on | 20-39% of solution documen ted properly. | 40-59% of solution documente d properly. | 60-79% of solution documen ted properly. | 80-100% of solution documen ted properly. | |
| 3 | Viva | Students hardly answered. | Student has problem s while answering | Questions are answered fairly well. | Question s are answered completel y and correctly. | |
| 4 | Submission on Time | Submitted after the given deadline | Submitted before the given deadline | | | |