Experiment No 4 Database Management System Lab 2021-22 Faculty: Sana Shaikh

Class: SE Comp Experiment No: 4

Name : Ashish Jha Roll No. 27 Batch: B

Topic:	Populate database using DML commands for the assigned system.
Prerequisite:	Knowledge of SQL syntax.
Mapping With COs:	CSL402.2
Objective:	Execute all Data Manipulation Language commands and manage the content of the database.
Outcome:	-Explain the use of DML commands. -Insert, delete, update and extract the data from the database by applying these commands. - Manage the content of the database.
Instructions:	1. This experiment is a compulsory experiment. All the students are required to perform this experiment individually. 2. Implement DML commands for the assigned system.
Deliverables:	**For Submissions:** 1. List down all DML commands and write syntax of each DML command. ANS: ● DML - Data manipulation language ● DML statements are used for manipulating or managening data in database

	● DML commands are not auto committed like DDL statements ● Use of DML commands * INSERT Statement * DELETE Statement * UPDATE Statement 1. INSERT statement: Insert statement is used to add records to the existing table. Syntax:INSERT INTO <Table name> Values (Val1,val2,val3…….); 2. DELETE statement : Delete Statement is used to delete some or all records from the existing table Syntax : DELETE FROM <Table name> DELETE FROM <Table name> Where <Condition> 3. UPDATE Statement:Used to update the existing data in the table To update data in a table. Syntax : UPDATE <Table name> SET Col_1 = new value_ UPDATE <Table name> SET Col_1 = new value WHERE <Condition> 2. Implemented all DML queries with their output. Ans :

	-- connecting to database use mysql -- Creating table CREATE TABLE Lib(Lib_id INT NOT NULL, First_name VARCHAR(20), Last_name VARCHAR(20), salary INT, PRIMARY KEY (Lib_id)); -- to view the schema of table DESC Lib; -- to view the contents of table select * from Lib; -- inserting values insert into Lib values (100,"steven","king",10000); insert into Lib values (200,"Edwin","Thomas",15000);

insert into Lib values (300,"Harry","Potter",20000);

-- Updating the values

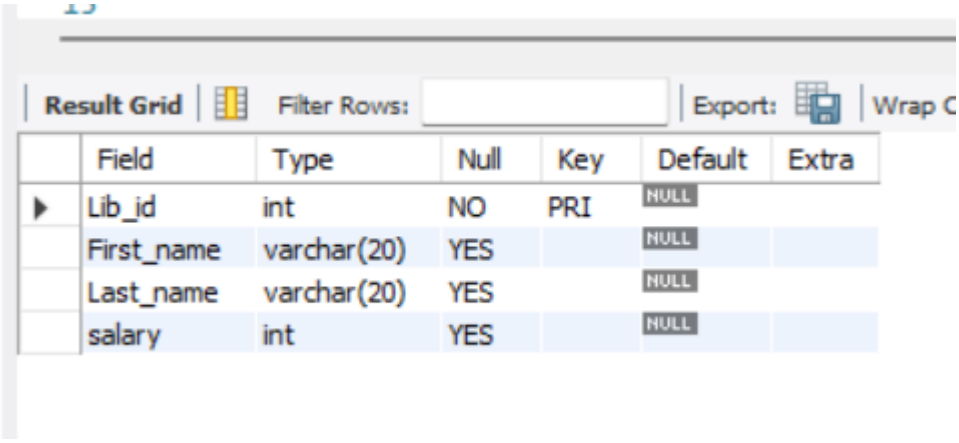
update Lib set First_name = "Hari" where Lib_id = 100;

-- delete command

delete from Lib where Lib_id = 200

Outputs :

1. Creation of table



Field	Type	Null	Key	Default	Extra
Lib_id	int	NO	PRI	NULL	
First_name	varchar(20)	YES		NULL	
Last_name	varchar(20)	YES		NULL	
salary	int	YES		NULL	

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Result Grid | Filter Rows: | Edi

	Lib_id	First_name	Last_name	salary
*	NULL	NULL	NULL	NULL

2. Inserting value to the table

Result Grid | Filter Rows:

	Lib_id	First_name	Last_name	salary
▶	100	steven	king	10000
	200	Edwin	Thomas	15000
	300	Harry	Potter	20000
*	NULL	NULL	NULL	NULL

3. Updating The values

Result Grid | Filter Rows: | Edit:

	Lib_id	First_name	Last_name	salary
▶	100	Hari	king	10000
	200	Edwin	Thomas	15000
	300	Harry	Potter	20000
*	NULL	NULL	NULL	NULL

4. Deleting the values

	18 Result Grid Filter Rows: Lib_id First_name Last_name salary 100 Hari king 10000 300 Harry Potter 20000 NULL NULL NULL NULL
Conclusion:	able to manage the content of the database using DML commands.
References:	Database system concept by korth https://www.w3schools.com/sql/sql_insert.as

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Don Bosco Institute of Technology

Department of Computer Engineering

Assessment Rubric for Experiment No. 4

Title of Experiment : Execute DML commands **Performance Date : 15/03/2022**

Year and Semester : 2nd Year and IVth Semester **Submission Date : 18/30/2022**

Name: 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 DML commands.	Executed 31-50% queries based on DML commands.	Executed 51-70% queries based on DML commands.	Executed 71- 89% queries based on DML commands.	Executed 90-100% queries based on DML commands.
2	Documentation	20-39% of solution documented properly.	40-59% of solution documented properly.	60-79% of solution documented properly.	80-100% of solution documented properly.	
3	Viva	Students hardly answered.	Student has problems while answering.	Questions are answered fairly well.	Questions are answered completely and correctly.	
4	Submission on Time	Submitted after the given deadline	Submitted before the given deadline			