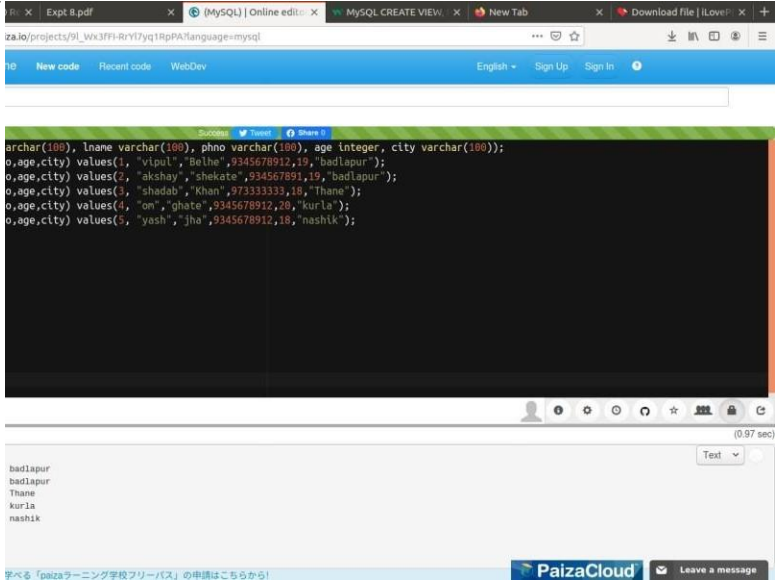


Experiment No: 8

Name : Ashish jha Roll no.27 Batch : B

Topic:	Perform Views and Triggers.
Prerequisite:	Knowledge of Perform Views, Triggers. and SQL syntax.
Mapping With COs:	CSL402.4
Objective:	Creation and dropping of Views and Triggers.
Outcome:	<p>After completion of this lab, the student should be able to:</p> <ol style="list-style-type: none"> 1. - Explain the purpose of creating Views and Triggers. 2. - Create and drop Views 3. - Create useful Triggers
Instructions:	<ol style="list-style-type: none"> 1. This experiment is a compulsory experiment. All the students are required to perform this experiment individually. 2. Implement Views and Triggers for the assigned system.
Deliverables:	<p>For Submissions:</p> <ol style="list-style-type: none"> 1. All implemented queries with output. 1. All implemented queries with output. <p>Create and drop Views:</p> <p>CREATE VIEWS:</p>  <p>ROP VIEWS:</p>

```
1 create table Test(id integer, Name varchar(100), lname varchar(100), phno varchar(100), age integer, city varchar(100));
2 insert into Test(id, name, lname, phno, age, city) values(1, "vipul", "Belhe", 9345678912, 19, "badlapur");
3 insert into Test(id, name, lname, phno, age, city) values(2, "akshay", "shekate", 934567891, 19, "badlapur");
4 insert into Test(id, name, lname, phno, age, city) values(3, "shadab", "Khan", 973333333, 18, "Thane");
5 insert into Test(id, name, lname, phno, age, city) values(4, "on", "ghate", 9345678912, 20, "kurli");
6 insert into Test(id, name, lname, phno, age, city) values(5, "yash", "jha", 9345678912, 18, "nashik");
7
8
9 select * from Test;
10 -- Your code here!
11
12 create view info as
13 select id, name, phno
14 from Test
15 where city = "badlapur";
16 select * from info;
17 drop view info;
18 select * from info;
```

Output Runtime error Input Comments

ERROR 1146 (42S02) at line 19: Table 'test.info' doesn't exist

Create useful Triggers:

```
CREATE TABLE employees_audit ( id INT
AUTO_INCREMENT PRIMARY KEY,
employeeNumber INT NOT NULL,
lastname VARCHAR(50) NOT NULL,
changedat DATETIME DEFAULT NULL,
action VARCHAR(50) DEFAULT NULL
);
```

```
CREATE TRIGGER before_employee_update
BEFORE UPDATE ON employees_audit
FOR EACH ROW
INSERT INTO employees_audit
SET action = 'update',
employeeNumber = OLD.employeeNumber,
lastname = OLD.lastname,
changedat = NOW();
```

SHOW TRIGGERS;

Trigger	Event	Table	Statement	Timing	Created	sql_mode	Definer	character_set_client	collation_connection	Database	Collation
before_employee_update	UPDATE	employees_audit	INSERT INTO employees_audit (SET action = 'update', \n employeeNumber = OLD.employeeNumber, \n lastname = OLD.lastname, \n changedat = NOW()	BEFORE	2022-04-07 07:10:17.66	ONLY_FULL_GROUP_BY, STRICT_TRANS_TABLES, NO_ZERO_IN_DATE, NO_ZERO_DATE, ERROR_FOR_DIVISION_BY_ZERO, NO_ENGINE_SUBSTITUTION	skip-grants user@skip-grants host	utf8mb4	utf8mb4_0900_ai_ci	utf8mb4	utf8mb4_0900_ai_ci

2. Viva based on Views and Triggers.

Conclusion:	Thus creation and dropping of View and Triggers are executed successfully.
References:	Put the reference of resources used to perform this experiment. (Referred textbooks/websites etc.)

Don Bosco Institute of Technology
Department of Computer Engineering

Assessment Rubric for Experiment No. 8

Title of Experiment : Perform Views and Triggers.

Year and Semester : 2nd Year and IVth Semester **Submission Date :** 10/04/22 **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 following: View (Create both types, Apply DML operation, With Read Onle, With Check Constraint, Drop) - Triggers (Create, Apply and Drop)	Executed 31-50% queries based on following: View (Create both types, Apply DML operation, With Read Onle, With Check Constraint, Drop) - Triggers (Create, Apply and Drop)	Executed 51-70% queries based on following: View (Create both types, Apply DML operation, With Read Onle, With Check Constraint, Drop) - Triggers (Create, Apply and Drop)	Executed 71-89% queries based on following: View (Create both types, Apply DML operation, With Read Onle, With Check Constraint, Drop) - Triggers (Create, Apply and Drop)	Executed 90-100% queries based on following: View (Create both types, Apply DML operation, With Read Onle, With Check Constraint, Drop) - Triggers (Create, Apply and Drop)
2	Documentation	20-39% of solutions are documented properly.	40-59% of solutions are documented properly.	60-79% of solutions are documented properly.	80-100% of the solution is documented properly.	
3	Viva	Students hardly answered.	Students have 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			