**Name : Hetvi Bathani Subject : DBMS LAB**

**Class : AIA-3 Batch : B**

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# ASSIGNMENT NO: 07

**Aim:** PL/SQL: Implicit and Explicit Cursors and Triggers.

1. Write a Trigger for purchase table where total will be calculated when value is inserted in the table.
2. 1. Use the table prodution.products with Product\_id, Product\_name, Brand\_id,Category\_id, model\_year,list\_price,
   1. Declare two variables to hold product name and list price, and a cursor to hold the result of a query that retrieves product name and list price from the production.products table
   2. fetch each row from the cursor and print out the product name and list price

**Software required**: MySQL

# Implementation:

**A]**

Write a Trigger for purchase table where total will be calculated when value is inserted in the table.

CREATE TABLE purchase ( product VARCHAR(15), price INT(6)

);

set @total = 0;

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after insert on purchase for each row

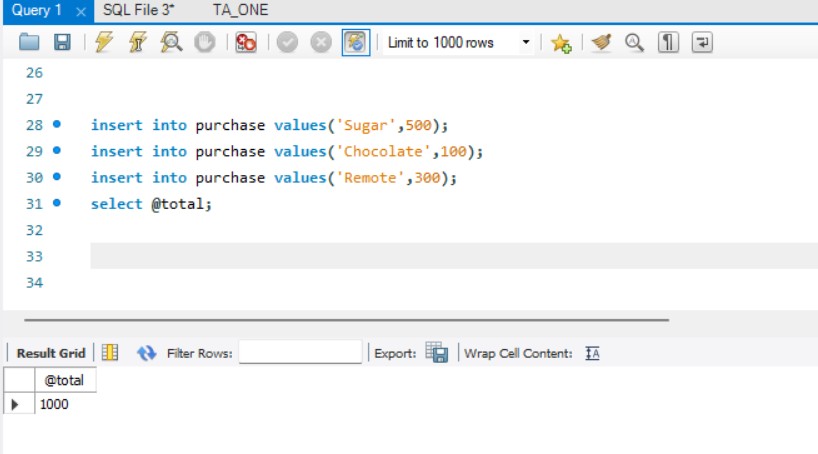
begin

SET @total = (SELECT SUM(price) FROM purchase);

end;

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insert into purchase values('Sugar',500); insert into purchase values('Chocolate',100); insert into purchase values('Remote',300); select @total;



# B]

DELIMITER ;

CREATE TABLE products ( Product\_name VARCHAR(255), Brand\_id INT,

Category\_id INT, model\_year YEAR, list\_price INT

);

drop table products;

INSERT INTO products (Product\_name, Brand\_id, Category\_id, model\_year, list\_price) VALUES ('Laptop', 1, 2, 2023, 999),

('Smartphone', 2, 1, 2023, 599),

('Tablet', 3, 2, 2022, 349),

('Desktop Computer', 1, 2, 2023, 1299),

('Camera', 4, 3, 2023, 799);

delimiter /

CREATE PROCEDURE ListD() BEGIN

DECLARE done INT DEFAULT 0;

DECLARE prod\_name VARCHAR(255); DECLARE prod\_price INT;

DECLARE cur CURSOR FOR

SELECT Product\_name,list\_price FROM products;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

OPEN cur; read\_loop: LOOP

FETCH cur INTO prod\_name,prod\_price; IF done = 1 THEN

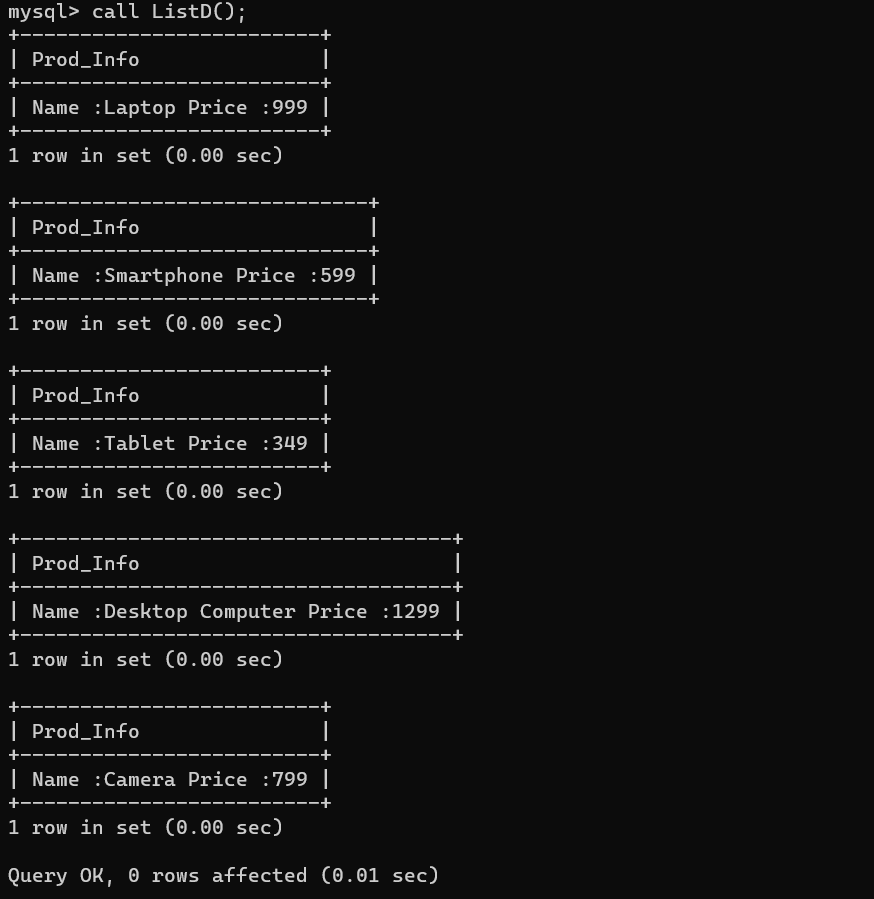
LEAVE read\_loop; END IF;

SELECT CONCAT('Name :',prod\_name,' Price :',prod\_price) AS Prod\_Info; END LOOP;

CLOSE cur;

END /

delimiter ;



# Conclusion:

Hence, we have succesfully implmented Triggers and Cursors.