**Statements used to create trigger and associated function :**

CREATE OR REPLACE FUNCTION addtototalfunc()

RETURNS TRIGGER AS $addtototalfunc$

BEGIN

IF (TG\_OP = 'INSERT') THEN

UPDATE Total\_Expense

SET total\_amount = total\_amount + NEW.amount;

ELSEIF (TG\_OP = 'DELETE') THEN

UPDATE Total\_Expense

SET total\_amount = total\_amount - OLD.amount;

ELSE

UPDATE Total\_Expense

SET total\_amount = total\_amount - OLD.amount + NEW.amount;

END IF;

RETURN NULL;

END;

$addtototalfunc$ LANGUAGE plpgsql;

CREATE TRIGGER AddToTotal

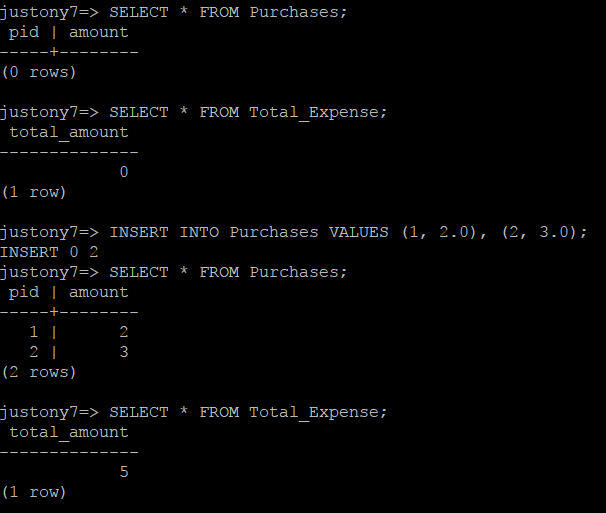
AFTER INSERT OR DELETE OR UPDATE ON Purchases

FOR EACH ROW

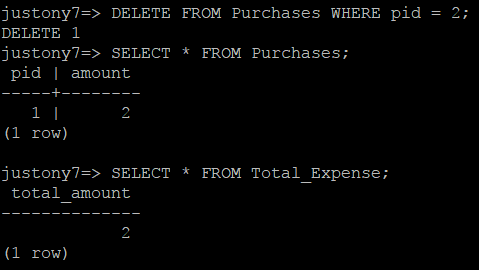
EXECUTE PROCEDURE AddToTotalfunc();

**TESTING :**

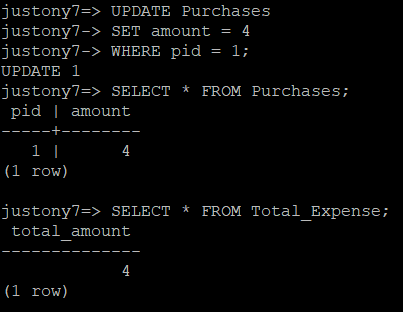
**Before and after insertion of two values into the Purchases table :**

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**Deletion of the value with PID = 2 :**

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**Updating the amount to 4 for the Purchases tuple with PID = 1 :**

****

**I, Justin Anthony Timberlake, declare that I have completed this assignment completely and entirely on my own,**

**without any consultation with others. I understand that any breach of the UAB Academic Honor Code may result in**

**severe penalties.**