## 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:

## Deletion of the value with PID = 2:

## **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.