Assignment 9

CS1103

Student Name: Omar Sebri Student ID: Omar Sebri Part A: Code: DELIMITER \$\$ CREATE procedure adjustPrice(itemID INT) **BEGIN** if (EXISTS(SELECT item id FROM menu items WHERE item id=itemID)) then if((SELECT item price FROM menu items WHERE item id=itemID)<2) then</pre> UPDATE menu items SET item price = (item price*102)/100 WHERE item id=itemID; ELSEIF ((SELECT item price FROM menu items WHERE item id=itemID)<4) then UPDATE menu items SET item price = (item price*104)/100 WHERE item id=itemID; **ELSE** UPDATE menu items SET item_price = (item price*105)/100 WHERE item id=itemID; END if ; ELSE SIGNAL SQLSTATE '45000' SET MESSAGE TEXT ='item not found'; END if; END\$\$ Testing: Calling Procedure: call adjustPrice(1); call adjustPrice(6); call adjustPrice(7); Before: Item_ID Item_name Item_price Item_category 1 Coffee (Original Blend, Dark Roast or Decaf)Small 1,59 11 6 Iced Coffee (Original or Dark Roast)Large 2,90 12 7 California Turkey 6,49 13 After: Item_ID Item_name Item_price Item_category

1 Coffee (Original Blend, Dark Roast or Decaf)Small

6 Iced Coffee (Original or Dark Roast)Large

7 California Turkey

1,62

3,02

6,81

11

12

13

Using a non-existent Item ID:

```
call adjustPrice(19);
```

```
Asst4: Error X

SQL Error (1644): item not found

OK

Find some help on this error (=> ecosia.org)
```

Part B:

Code:

```
DELIMITER $$
CREATE PROCEDURE multisale (itemID INT, quantity INT, saletype INT, storeID
INT, employeeID INT)
BEGIN
declare START INT DEFAULT 0;
if(EXISTS(SELECT item id FROM menu items WHERE item_id=itemID)
AND EXISTS (SELECT sale type id FROM sales type WHERE sale type id=saletype)
AND EXISTS (SELECT employee id FROM employees WHERE employee id=employeeid)
AND EXISTS (SELECT shop id FROM tim store WHERE shop id=storeID)) then
Select
@lastint:=MAX(sale id)
FROM sales record;
INSERT INTO sales record
VALUES (@lastint+1, CURDATE(), saletype, storeid, employeeid);
while(START < quantity) DO</pre>
      INSERT INTO line items VALUES(START+1, (SELECT MAX(sale id) FROM
sales_record),itemID);
      set START = START + 1;
END while ;
SELECT item price*quantity AS TotalSalePrice FROM menu items
     WHERE item_id=itemID;
ELSE SIGNAL SQLSTATE '45000'
SET MESSAGE TEXT ='invalid input' ;
END if;
END$$
Testing:
SELECT * FROM sales record
WHERE sale id = (SELECT MAX(sale id) FROM sales record) ;
 Sale ID
            Date_and_time
                                           Store
                                                     Employee
                              Sale_type
      10 021 2022-04-03 00:00:00
                                         2
                                                 103
                                                             1 001
SELECT sale id, line item id, item name FROM
 line items NATURAL JOIN menu items
 WHERE sale id = (SELECT MAX(sale id) FROM sales record);
```

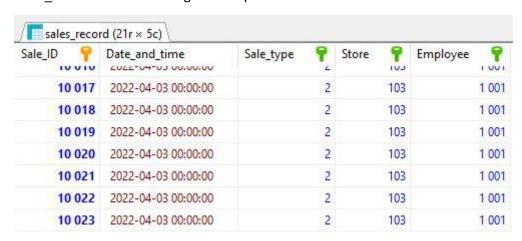


PS: Since my menu doesn't have donuts I will instead use Turkey bacon club.

Calling procedures:



Sales_rcord table after calling the two procedures:



Line_items Table after calling the two procedures:



SELECT * **FROM** sales record



SELECT sale_id, line_item_id, item_name FROM

line items **NATURAL JOIN** menu items

10 023	1	Turkey Bacon Club
10 023	2	Turkey Bacon Club
10 023	3	Turkey Bacon Club
10 023	4	Turkey Bacon Club

Testing Invalid Inputs:

Non-existent item id:

```
CALL multisale (15, 3, 2, 103, 1001);
```

Negative quantity:

```
CALL multisale (8, -1, 2, 103, 1001);
```

Non-existent sale type:

```
CALL multisale(8,3,25,103,1001);
```

Non-existent store:

```
CALL multisale(8,3,2,133,1001);
```

Non-existent Employee:

```
CALL multisale(8,3,2,103,3);
```

All of the previous calls yield the same result: an error

