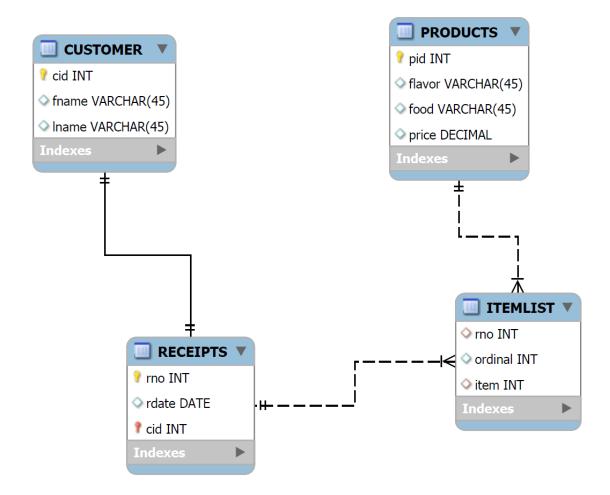
Name: Somisetty Sai Praneeth Date: 16-03-2022

Roll. No: 20BCS125

<u>Aim</u>: The aim of this assignment is to write single SQL Query as provided in Lab- 6.pdf on Bakery Database.

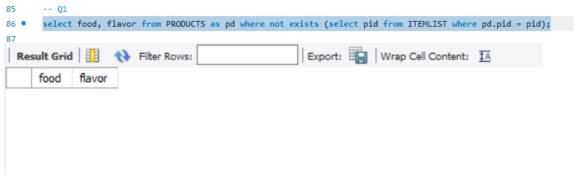
Experiments: In this following Lab Assignment we are going to write single SQL Queries to retrieve desired Data from Bakery Database. We have created the Database Schema and Tables from the provided ER-Diagram and also, we have populated those Tables with valid Data.

ERD:

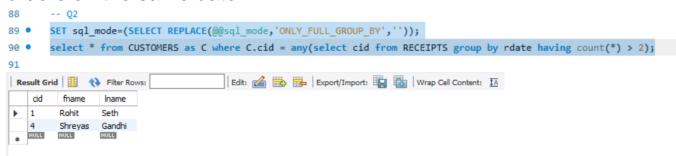


Results: When the SQL-Script file is run in SQL-Workbench, SQL created 6 Tables successfully, and populated the respective Tables with valid inserted Data(s).

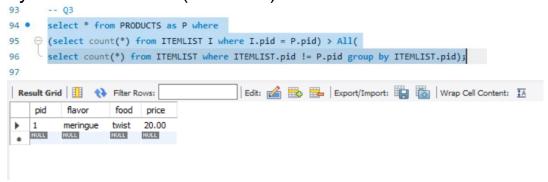
1. Display the food details that is not purchased by any of customers.



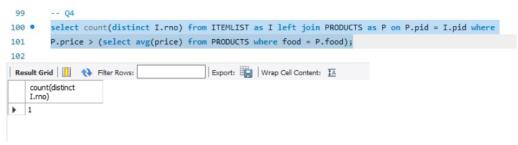
2. Show the customer details who had placed more than 2 orders on the same date.



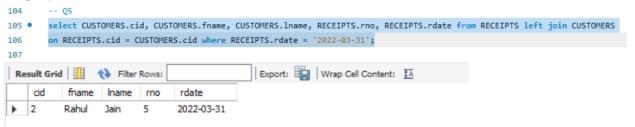
3. Display the products details that has been ordered maximum by the customers. (Use ALL)



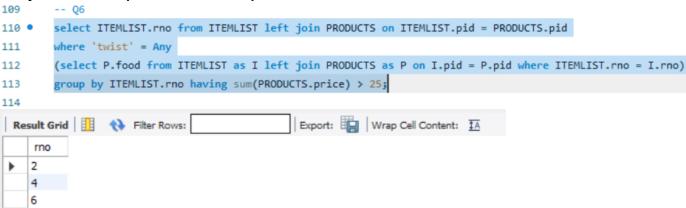
4. Show the number of receipts that contain the product whose price is more than the average price of its food type.



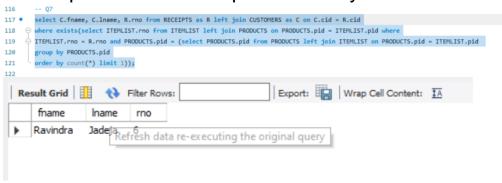
5. Display the customer details along with receipt number and date for the receipts that are dated on the last day of the receipt month.



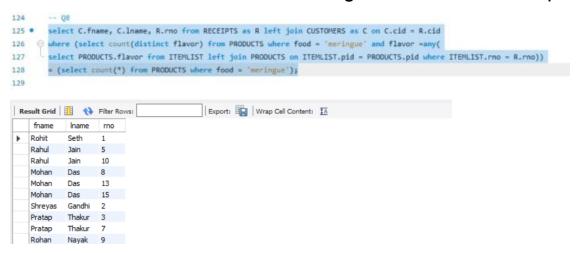
6. Display the receipt number(s) and its total price for the receipt(s) that contain Twist as one among five items. Include only the receipts with total price more than \$25.



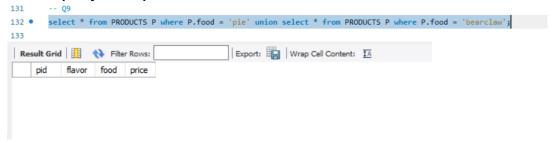
7. Display the details (customer details, receipt number, item) for the product that was purchased by least no. of customers.



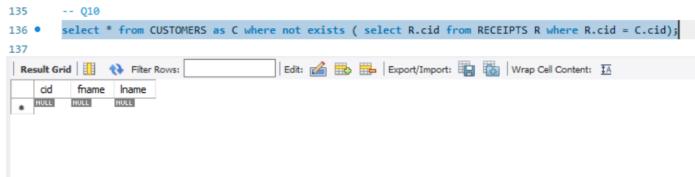
8. Display the customer details along with the receipt number who ordered all the flavors of Meringue in the same receipt.



9. Display the product details of both Pie and Bear Claw.



10. Display the customers details who haven't placed any orders.



11. Display the food that has the same flavor as that of the common flavor between the Meringue and Tart.

12. Create a view named Blue_Flavor, which display the product details (product id, food, price) of Blueberry flavor.

```
145 -- Q12

146 • create view blue_flavour

147 as select pid, food, price from PRODUCTS

148 where flavor = 'blueberry';

149
```

13. Create a view named Cheap_Food, which display the details (product id, flavor, food, price) of products with price lesser than \$1. Ensure that, the price of these food(s) should never rise above \$1 through view.

```
151 -- Q13

152 • create view cheap_food

153 as select * from PRODUCTS

154 where price < '1';

155 • alter table Cheap_Food add check (price < 1.00);

156
```

14. Create a view called Hot_Food that show the product id and its quantity where the same product is ordered more than once in the same receipt.

```
-- Q14

159 • create view `hot_food` as

160 select P.pid, count(*) as quantity from ITEMLIST as I left join PRODUCTS as P on P.pid = I.pid

161 group by I.rno, P.pid having count(*) > 1;

162
```

15. Create a view named Pie_Food that will display the details (customer lname, flavor, receipt number and date, ordinal) who had ordered the Pie food with receipt details.

```
-- Q15

reate view `pie_Food` as

select C.lname, P.flavor, R.rno, R.rdate, I.ordinal from CUSTOMERS as C, PRODUCTS as P, RECEIPTS as R, ITEMLIST as I where

C.cid= R.cid and R.rno = I.rno and I.pid = P.pid and P.food='pie';

168
```

16. Create a view Cheap_View from Cheap_Food that shows only the product id, flavor and food.

```
170 -- Q16

171 • create view cheap_view

172 as select pid, flavor, food from cheap_food

173
```

Conclusion:

In this Lab Assignment we have seen how to create view based on table(s) or view(s) and observe its behaviour while performing update operations on it and to retrieve desired Data with conditions from SQL Database Tables.