Restaurants in the area serve various food to customers. As long as customers keep showing up to a restaurant regularly, that restaurant will keep serving the same dish. If no customers visit a restaurant for more than 3 days, then that restaurant will serve a new type of food starting when the next customer visits. Unfortunately, some ingredients were contaminated and caused a few customers to suffer from food poisoning. The restaurants know which food was affected and are now trying to figure out which customers were affected. The restaurants keep their own catalogue of customers, so there is no guarantee that a customer has the same customer ID at each restaurant. All restaurants serve food in the same order. Figure out which customer ate which food.

**Sample Data:**

Restaurant:

|  |  |  |
| --- | --- | --- |
| **restaurant\_id** | **customer\_id** | **visit\_date** |
| 1 | 1 | 2020-01-01 |
| 2 | 1 | 2020-01-01 |
| 1 | 2 | 2020-01-03 |
| 3 | 1 | 2020-01-04 |
| 2 | 2 | 2020-01-14 |
| 3 | 1 | 2020-01-11 |
| 2 | 3 | 2020-01-14 |

Food:

|  |  |
| --- | --- |
| **food\_id** | **food\_name** |
| 1 | Spaghetti |
| 2 | Chicken and Rice |
| 3 | Tacos |

**Desired:**

| **Restaurant** | **Customer** | **Visit** | **Food** |
| --- | --- | --- | --- |
| 1 | 1 | 2020-01-01 | Spaghetti |
| 1 | 2 | 2020-01-03 | Spaghetti |
| 2 | 1 | 2020-01-01 | Spaghetti |
| 2 | 2 | 2020-01-10 | Chicken and Rice |
| 2 | 3 | 2020-01-14 | Tacos |
| 3 | 1 | 2020-01-04 | Spaghetti |
| 3 | 1 | 2020-01-11 | Chicken and Rice |

This is the database:

drop table if exists restaurant;

CREATE TABLE restaurant ( restaurant\_id INTEGER NOT NULL, customer\_id INTEGER NOT NULL, visit\_date date NOT NULL );

drop table if exists food; CREATE TABLE food ( food\_id INTEGER NOT NULL PRIMARY KEY AUTO\_INCREMENT, food\_name VARCHAR(60) NOT NULL );

#reference data for food names

insert into food values (null, 'Spaghetti');

insert into food values (null, 'Chicken and rice');

insert into food values (null, 'Tacos');

insert into food values (null, 'Green chile stew');

insert into food values (null, 'Frito, apple, cherry, blueberry, and pumpkin pies');

insert into food values (null, 'BLT');

insert into food values (null, 'Barbecue ribs');

insert into food values (null, 'Indian frybread');

insert into food values (null, 'Buffalo wings');

insert into food values (null, 'Lobster'); insert into food values (null, 'Spaghetti');

insert into food values (null, 'New Mexican flat enchiladas');

insert into food values (null, 'New England clam chowder');

insert into food values (null, 'Fried chicken and waffles');

insert into food values (null, 'Peanut butter sandwich');

insert into food values (null, 'Cioppino');

insert into food values (null, 'Cheeseburger');

insert into food values (null, 'Maryland crabcakes');

insert into food values (null, 'Macaroni and cheese');

insert into food values (null, 'Chili with beans');

insert into food values (null, 'Grits');

insert into food values (null, 'Meatloaf');

insert into food values (null, 'Wild Alaska salmon');

insert into food values (null, 'Chicken fried steak');

insert into food values (null, 'Smithfield ham');

insert into food values (null, 'Jambalaya');

insert into food values (null, 'Reuben sandwich');

insert into food values (null, 'Fajitas');

insert into food values (null, 'Pot roast');

insert into food values (null, 'Cobb salad');

insert into food values (null, 'Hot dogs');

insert into food values (null, 'Philly cheese steak');

insert into food values (null, 'Nachos and cheese');

insert into restaurant values (1, 1, cast('2020-01-01' as date));

insert into restaurant values (2, 1, cast('2020-01-01' as date));

insert into restaurant values (1, 2, cast('2020-01-03' as date));

insert into restaurant values (3, 1, cast('2020-01-04' as date));

insert into restaurant values (2, 2, cast('2020-01-10' as date));

insert into restaurant values (4, 1, cast('2020-01-11' as date));

insert into restaurant values (3, 1, cast('2020-01-11' as date));

insert into restaurant values (2, 3, cast('2020-01-14' as date));

insert into restaurant values (5, 1, cast('2010-01-01' as date));

insert into restaurant values (5, 2, cast('2012-01-01' as date));

insert into restaurant values (5, 3, cast('2014-01-01' as date));

insert into restaurant values (5, 4, cast('2016-01-01' as date));

insert into restaurant values (5, 5, cast('2018-01-01' as date));

insert into restaurant values (5, 6, cast('2020-01-01' as date));

insert into restaurant values (6, 1, cast('2019-12-04' as date));

insert into restaurant values (6, 2, cast('2019-12-04' as date));

insert into restaurant values (6, 1, cast('2019-12-04' as date));

insert into restaurant values (6, 1, cast('2019-12-07' as date)); insert into restaurant values (6, 1, cast('2019-12-10' as date)); insert into restaurant values (6, 1, cast('2019-12-10' as date)); insert into restaurant values (6, 3, cast('2019-12-10' as date)); insert into restaurant values (6, 1, cast('2019-12-13' as date)); insert into restaurant values( 7, 10, cast('2019-06-04' as date)); insert into restaurant values( 7, 11, cast('2019-06-08' as date)); insert into restaurant values( 7, 12, cast('2019-06-13' as date)); insert into restaurant values( 7, 13, cast('2019-06-19' as date)); insert into restaurant values( 7, 14, cast('2019-06-24' as date)); insert into restaurant values( 7, 15, cast('2019-06-28' as date)); insert into restaurant values( 7, 16, cast('2019-07-03' as date)); insert into restaurant values( 7, 17, cast('2019-07-09' as date)); insert into restaurant values( 7, 18, cast('2019-07-14' as date)); insert into restaurant values( 7, 19, cast('2019-07-18' as date)); insert into restaurant values( 7, 20, cast('2019-07-23' as date)); insert into restaurant values( 7, 21, cast('2019-07-29' as date)); insert into restaurant values( 7, 22, cast('2019-08-03' as date)); insert into restaurant values( 7, 23, cast('2019-08-07' as date)); insert into restaurant values( 7, 24, cast('2019-08-12' as date)); insert into restaurant values( 7, 25, cast('2019-08-18' as date)); insert into restaurant values( 7, 26, cast('2019-08-23' as date)); insert into restaurant values( 7, 27, cast('2019-08-27' as date)); insert into restaurant values( 7, 28, cast('2019-09-01' as date)); insert into restaurant values( 7, 29, cast('2019-09-07' as date)); insert into restaurant values( 7, 30, cast('2019-09-12' as date)); insert into restaurant values( 7, 31, cast('2019-09-16' as date)); insert into restaurant values( 8, 1, cast('2019-06-04' as date)); insert into restaurant values( 8, 2, cast('2019-06-05' as date)); insert into restaurant values( 8, 2, cast('2019-06-05' as date)); insert into restaurant values( 8, 2, cast('2019-06-05' as date)); insert into restaurant values( 8, 2, cast('2019-06-05' as date)); insert into restaurant values( 8, 1, cast('2019-06-07' as date)); insert into restaurant values( 8, 1, cast('2019-06-10' as date)); insert into restaurant values( 8, 2, cast('2019-06-11' as date)); insert into restaurant values( 8, 2, cast('2019-06-11' as date)); insert into restaurant values( 8, 2, cast('2019-06-14' as date)); insert into restaurant values( 8, 2, cast('2019-06-17' as date)); insert into restaurant values( 8, 3, cast('2019-06-18' as date)); insert into restaurant values( 8, 2, cast('2019-06-20' as date)); insert into restaurant values( 8, 2, cast('2019-06-23' as date)); insert into restaurant values( 8, 2, cast('2019-06-23' as date)); insert into restaurant values( 8, 2, cast('2019-06-23' as date)); insert into restaurant values( 8, 2, cast('2019-06-26' as date)); insert into restaurant values( 8, 1, cast('2019-06-28' as date)); insert into restaurant values( 8, 1, cast('2019-06-28' as date)); insert into restaurant values( 8, 3, cast('2019-06-30' as date)); insert into restaurant values( 8, 2, cast('2019-07-02' as date)); insert into restaurant values( 8, 2, cast('2019-07-02' as date)); insert into restaurant values( 8, 1, cast('2019-07-04' as date)); insert into restaurant values( 8, 3, cast('2019-07-06' as date)); insert into restaurant values( 8, 3, cast('2019-07-09' as date)); insert into restaurant values( 8, 1, cast('2019-07-10' as date)); insert into restaurant values( 8, 1, cast('2019-07-13' as date)); insert into restaurant values( 8, 1, cast('2019-07-16' as date)); insert into restaurant values( 8, 1, cast('2019-07-19' as date)); insert into restaurant values( 8, 3, cast('2019-07-21' as date)); insert into restaurant values( 8, 3, cast('2019-07-21' as date)); insert into restaurant values( 8, 3, cast('2019-07-24' as date)); insert into restaurant values( 8, 3, cast('2019-07-27' as date)); insert into restaurant values( 8, 2, cast('2019-07-29' as date)); insert into restaurant values( 8, 1, cast('2019-07-31' as date)); insert into restaurant values( 8, 1, cast('2019-07-31' as date)); insert into restaurant values( 8, 1, cast('2019-07-31' as date)); insert into restaurant values( 8, 1, cast('2019-07-31' as date)); insert into restaurant values( 8, 1, cast('2019-08-03' as date)); insert into restaurant values( 8, 1, cast('2019-08-06' as date)); insert into restaurant values( 8, 3, cast('2019-08-08' as date)); insert into restaurant values( 8, 1, cast('2019-08-09' as date)); insert into restaurant values( 8, 2, cast('2019-08-10' as date)); insert into restaurant values( 8, 3, cast('2019-08-11' as date)); insert into restaurant values( 8, 3, cast('2019-08-11' as date)); insert into restaurant values( 8, 3, cast('2019-08-14' as date)); insert into restaurant values( 8, 3, cast('2019-08-14' as date)); insert into restaurant values( 8, 3, cast('2019-08-17' as date)); insert into restaurant values( 8, 1, cast('2019-08-18' as date)); insert into restaurant values( 8, 1, cast('2019-08-21' as date)); insert into restaurant values( 8, 3, cast('2019-08-23' as date)); insert into restaurant values( 8, 3, cast('2019-08-26' as date)); insert into restaurant values( 8, 3, cast('2019-08-26' as date)); insert into restaurant values( 8, 2, cast('2019-08-28' as date)); insert into restaurant values( 8, 2, cast('2019-08-28' as date)); insert into restaurant values( 8, 2, cast('2019-08-28' as date)); insert into restaurant values( 8, 1, cast('2019-08-30' as date)); insert into restaurant values( 8, 1, cast('2019-08-30' as date)); insert into restaurant values( 8, 1, cast('2019-09-02' as date)); insert into restaurant values( 8, 2, cast('2019-09-03' as date)); insert into restaurant values( 8, 1, cast('2019-09-05' as date)); insert into restaurant values( 8, 2, cast('2019-09-06' as date)); insert into restaurant values( 8, 3, cast('2019-09-07' as date)); insert into restaurant values( 8, 3, cast('2019-09-10' as date)); insert into restaurant values( 9, 1, cast('2020-01-20' as date)); insert into restaurant values( 9, 2, cast('2020-01-20' as date)); insert into restaurant values( 9, 3, cast('2020-01-20' as date)); insert into restaurant values( 9, 4, cast('2020-01-20' as date)); insert into restaurant values( 9, 5, cast('2020-01-20' as date)); insert into restaurant values( 9, 6, cast('2020-01-20' as date)); insert into restaurant values( 9, 7, cast('2020-01-20' as date)); insert into restaurant values( 9, 8, cast('2020-01-20' as date)); insert into restaurant values( 9, 9, cast('2020-01-20' as date)); insert into restaurant values( 9, 10, cast('2020-01-20' as date)); insert into restaurant values( 9, 11, cast('2020-01-20' as date)); insert into restaurant values( 9, 12, cast('2020-01-20' as date)); insert into restaurant values( 9, 13, cast('2020-01-20' as date)); insert into restaurant values( 9, 14, cast('2020-01-20' as date)); insert into restaurant values( 9, 15, cast('2020-01-20' as date)); insert into restaurant values( 9, 16, cast('2020-01-20' as date)); insert into restaurant values( 9, 17, cast('2020-01-20' as date)); insert into restaurant values( 9, 18, cast('2020-01-20' as date)); insert into restaurant values( 9, 19, cast('2020-01-20' as date)); insert into restaurant values( 9, 20, cast('2020-01-20' as date)); insert into restaurant values( 9, 21, cast('2020-01-20' as date)); insert into restaurant values( 9, 22, cast('2020-01-20' as date)); insert into restaurant values( 9, 23, cast('2020-01-20' as date)); insert into restaurant values( 9, 24, cast('2020-01-20' as date)); insert into restaurant values( 9, 25, cast('2020-01-20' as date)); insert into restaurant values( 9, 26, cast('2020-01-20' as date)); insert into restaurant values( 9, 27, cast('2020-01-20' as date)); insert into restaurant values( 9, 28, cast('2020-01-20' as date)); insert into restaurant values( 9, 29, cast('2020-01-20' as date)); insert into restaurant values( 9, 30, cast('2020-01-20' as date)); insert into restaurant values( 9, 31, cast('2020-01-20' as date)); insert into restaurant values( 9, 32, cast('2020-01-20' as date)); insert into restaurant values( 9, 33, cast('2020-01-20' as date)); insert into restaurant values( 9, 34, cast('2020-01-20' as date)); insert into restaurant values( 9, 35, cast('2020-01-20' as date)); insert into restaurant values( 9, 36, cast('2020-01-20' as date)); insert into restaurant values( 9, 37, cast('2020-01-20' as date)); insert into restaurant values( 9, 38, cast('2020-01-20' as date)); insert into restaurant values( 9, 39, cast('2020-01-20' as date)); insert into restaurant values( 9, 40, cast('2020-01-20' as date)); insert into restaurant values( 9, 41, cast('2020-01-20' as date)); insert into restaurant values( 9, 42, cast('2020-01-20' as date)); insert into restaurant values( 9, 43, cast('2020-01-20' as date)); insert into restaurant values( 9, 44, cast('2020-01-20' as date)); insert into restaurant values( 9, 45, cast('2020-01-20' as date)); insert into restaurant values( 9, 46, cast('2020-01-20' as date)); insert into restaurant values( 9, 47, cast('2020-01-20' as date)); insert into restaurant values( 9, 48, cast('2020-01-20' as date)); insert into restaurant values( 9, 49, cast('2020-01-20' as date)); insert into restaurant values( 9, 50, cast('2020-01-20' as date)); insert into restaurant values( 9, 51, cast('2020-01-20' as date)); insert into restaurant values( 9, 52, cast('2020-01-20' as date)); insert into restaurant values( 9, 53, cast('2020-01-20' as date)); insert into restaurant values( 9, 54, cast('2020-01-20' as date)); insert into restaurant values( 9, 55, cast('2020-01-20' as date)); insert into restaurant values( 9, 56, cast('2020-01-20' as date)); insert into restaurant values( 9, 57, cast('2020-01-20' as date)); insert into restaurant values( 9, 58, cast('2020-01-20' as date)); insert into restaurant values( 9, 59, cast('2020-01-20' as date)); insert into restaurant values( 9, 60, cast('2020-01-20' as date)); insert into restaurant values( 9, 61, cast('2020-01-20' as date)); insert into restaurant values( 9, 62, cast('2020-01-20' as date)); insert into restaurant values( 9, 63, cast('2020-01-20' as date)); insert into restaurant values( 9, 64, cast('2020-01-20' as date)); insert into restaurant values( 9, 65, cast('2020-01-20' as date)); insert into restaurant values( 9, 66, cast('2020-01-20' as date)); insert into restaurant values( 9, 67, cast('2020-01-20' as date)); insert into restaurant values( 9, 68, cast('2020-01-20' as date)); insert into restaurant values( 9, 69, cast('2020-01-20' as date)); insert into restaurant values( 9, 70, cast('2020-01-20' as date)); insert into restaurant values( 9, 71, cast('2020-01-20' as date)); insert into restaurant values( 9, 72, cast('2020-01-20' as date)); insert into restaurant values( 9, 73, cast('2020-01-20' as date)); insert into restaurant values( 9, 74, cast('2020-01-20' as date)); insert into restaurant values( 9, 75, cast('2020-01-20' as date)); insert into restaurant values( 9, 76, cast('2020-01-20' as date)); insert into restaurant values( 9, 77, cast('2020-01-20' as date)); insert into restaurant values( 9, 78, cast('2020-01-20' as date)); insert into restaurant values( 9, 79, cast('2020-01-20' as date)); insert into restaurant values( 9, 80, cast('2020-01-20' as date)); insert into restaurant values( 9, 81, cast('2020-01-20' as date)); insert into restaurant values( 9, 82, cast('2020-01-20' as date)); insert into restaurant values( 9, 83, cast('2020-01-20' as date)); insert into restaurant values( 9, 84, cast('2020-01-20' as date)); insert into restaurant values( 9, 85, cast('2020-01-20' as date)); insert into restaurant values( 9, 86, cast('2020-01-20' as date)); insert into restaurant values( 9, 87, cast('2020-01-20' as date)); insert into restaurant values( 9, 88, cast('2020-01-20' as date)); insert into restaurant values( 9, 89, cast('2020-01-20' as date)); insert into restaurant values( 9, 90, cast('2020-01-20' as date)); insert into restaurant values( 9, 91, cast('2020-01-20' as date)); insert into restaurant values( 9, 92, cast('2020-01-20' as date)); insert into restaurant values( 9, 93, cast('2020-01-20' as date)); insert into restaurant values( 9, 94, cast('2020-01-20' as date)); insert into restaurant values( 9, 95, cast('2020-01-20' as date)); insert into restaurant values( 9, 96, cast('2020-01-20' as date)); insert into restaurant values( 9, 97, cast('2020-01-20' as date)); insert into restaurant values( 9, 98, cast('2020-01-20' as date)); insert into restaurant values( 9, 99, cast('2020-01-20' as date)); insert into restaurant values( 9, 100, cast('2020-01-20' as date));

Expected Output:

1 1 2020-01-01 Spaghetti

1 2 2020-01-03 Spaghetti

2 1 2020-01-01 Spaghetti

2 2 2020-01-10 Chicken and rice

2 3 2020-01-14 Tacos

3 1 2020-01-04 Spaghetti

3 1 2020-01-11 Chicken and rice

4 1 2020-01-11 Spaghetti

5 1 2010-01-01 Spaghetti

5 2 2012-01-01 Chicken and rice

5 3 2014-01-01 Tacos

5 4 2016-01-01 Green chile stew

5 5 2018-01-01 Frito, apple, cherry, blueberry, and pumpkin pies

5 6 2020-01-01 BLT

6 1 2019-12-04 Spaghetti 6 2 2019-12-04 Spaghetti 6 1 2019-12-04 Spaghetti 6 1 2019-12-07 Spaghetti 6 1 2019-12-10 Spaghetti 6 1 2019-12-10 Spaghetti 6 3 2019-12-10 Spaghetti 6 1 2019-12-13 Spaghetti 7 10 2019-06-04 Spaghetti 7 11 2019-06-08 Chicken and rice 7 12 2019-06-13 Tacos 7 13 2019-06-19 Green chile stew 7 14 2019-06-24 Frito, apple, cherry, blueberry, and pumpkin pies 7 15 2019-06-28 BLT 7 16 2019-07-03 Barbecue ribs 7 17 2019-07-09 Indian frybread 7 18 2019-07-14 Buffalo wings 7 19 2019-07-18 Lobster 7 20 2019-07-23 Spaghetti 7 21 2019-07-29 New Mexican flat enchiladas 7 22 2019-08-03 New England clam chowder 7 23 2019-08-07 Fried chicken and waffles 7 24 2019-08-12 Peanut butter sandwich 7 25 2019-08-18 Cioppino 7 26 2019-08-23 Cheeseburger 7 27 2019-08-27 Maryland crabcakes 7 28 2019-09-01 Macaroni and cheese 7 29 2019-09-07 Chili with beans 7 30 2019-09-12 Grits 7 31 2019-09-16 Meatloaf 8 1 2019-06-04 Spaghetti 8 2 2019-06-05 Spaghetti 8 2 2019-06-05 Spaghetti 8 2 2019-06-05 Spaghetti 8 2 2019-06-05 Spaghetti 8 1 2019-06-07 Spaghetti 8 1 2019-06-10 Spaghetti 8 2 2019-06-11 Spaghetti 8 2 2019-06-11 Spaghetti 8 2 2019-06-14 Spaghetti 8 2 2019-06-17 Spaghetti 8 3 2019-06-18 Spaghetti 8 2 2019-06-20 Spaghetti 8 2 2019-06-23 Spaghetti 8 2 2019-06-23 Spaghetti 8 2 2019-06-23 Spaghetti 8 2 2019-06-26 Spaghetti 8 1 2019-06-28 Spaghetti 8 1 2019-06-28 Spaghetti 8 3 2019-06-30 Spaghetti 8 2 2019-07-02 Spaghetti 8 2 2019-07-02 Spaghetti 8 1 2019-07-04 Spaghetti 8 3 2019-07-06 Spaghetti 8 3 2019-07-09 Spaghetti 8 1 2019-07-10 Spaghetti 8 1 2019-07-13 Spaghetti 8 1 2019-07-16 Spaghetti 8 1 2019-07-19 Spaghetti 8 3 2019-07-21 Spaghetti 8 3 2019-07-21 Spaghetti 8 3 2019-07-24 Spaghetti 8 3 2019-07-27 Spaghetti 8 2 2019-07-29 Spaghetti 8 1 2019-07-31 Spaghetti 8 1 2019-07-31 Spaghetti 8 1 2019-07-31 Spaghetti 8 1 2019-07-31 Spaghetti 8 1 2019-08-03 Spaghetti 8 1 2019-08-06 Spaghetti 8 3 2019-08-08 Spaghetti 8 1 2019-08-09 Spaghetti 8 2 2019-08-10 Spaghetti 8 3 2019-08-11 Spaghetti 8 3 2019-08-11 Spaghetti 8 3 2019-08-14 Spaghetti 8 3 2019-08-14 Spaghetti 8 3 2019-08-17 Spaghetti 8 1 2019-08-18 Spaghetti 8 1 2019-08-21 Spaghetti 8 3 2019-08-23 Spaghetti 8 3 2019-08-26 Spaghetti 8 3 2019-08-26 Spaghetti 8 2 2019-08-28 Spaghetti 8 2 2019-08-28 Spaghetti 8 2 2019-08-28 Spaghetti 8 1 2019-08-30 Spaghetti 8 1 2019-08-30 Spaghetti 8 1 2019-09-02 Spaghetti 8 2 2019-09-03 Spaghetti 8 1 2019-09-05 Spaghetti 8 2 2019-09-06 Spaghetti 8 3 2019-09-07 Spaghetti 8 3 2019-09-10 Spaghetti 9 1 2020-01-20 Spaghetti 9 2 2020-01-20 Spaghetti 9 3 2020-01-20 Spaghetti 9 4 2020-01-20 Spaghetti 9 5 2020-01-20 Spaghetti 9 6 2020-01-20 Spaghetti 9 7 2020-01-20 Spaghetti 9 8 2020-01-20 Spaghetti 9 9 2020-01-20 Spaghetti 9 10 2020-01-20 Spaghetti 9 11 2020-01-20 Spaghetti 9 12 2020-01-20 Spaghetti 9 13 2020-01-20 Spaghetti 9 14 2020-01-20 Spaghetti 9 15 2020-01-20 Spaghetti 9 16 2020-01-20 Spaghetti 9 17 2020-01-20 Spaghetti 9 18 2020-01-20 Spaghetti 9 19 2020-01-20 Spaghetti 9 20 2020-01-20 Spaghetti 9 21 2020-01-20 Spaghetti 9 22 2020-01-20 Spaghetti 9 23 2020-01-20 Spaghetti 9 24 2020-01-20 Spaghetti 9 25 2020-01-20 Spaghetti 9 26 2020-01-20 Spaghetti 9 27 2020-01-20 Spaghetti 9 28 2020-01-20 Spaghetti 9 29 2020-01-20 Spaghetti 9 30 2020-01-20 Spaghetti 9 31 2020-01-20 Spaghetti 9 32 2020-01-20 Spaghetti 9 33 2020-01-20 Spaghetti 9 34 2020-01-20 Spaghetti 9 35 2020-01-20 Spaghetti 9 36 2020-01-20 Spaghetti 9 37 2020-01-20 Spaghetti 9 38 2020-01-20 Spaghetti 9 39 2020-01-20 Spaghetti 9 40 2020-01-20 Spaghetti 9 41 2020-01-20 Spaghetti 9 42 2020-01-20 Spaghetti 9 43 2020-01-20 Spaghetti 9 44 2020-01-20 Spaghetti 9 45 2020-01-20 Spaghetti 9 46 2020-01-20 Spaghetti 9 47 2020-01-20 Spaghetti 9 48 2020-01-20 Spaghetti 9 49 2020-01-20 Spaghetti 9 50 2020-01-20 Spaghetti 9 51 2020-01-20 Spaghetti 9 52 2020-01-20 Spaghetti 9 53 2020-01-20 Spaghetti 9 54 2020-01-20 Spaghetti 9 55 2020-01-20 Spaghetti 9 56 2020-01-20 Spaghetti 9 57 2020-01-20 Spaghetti 9 58 2020-01-20 Spaghetti 9 59 2020-01-20 Spaghetti 9 60 2020-01-20 Spaghetti 9 61 2020-01-20 Spaghetti 9 62 2020-01-20 Spaghetti 9 63 2020-01-20 Spaghetti 9 64 2020-01-20 Spaghetti 9 65 2020-01-20 Spaghetti 9 66 2020-01-20 Spaghetti 9 67 2020-01-20 Spaghetti 9 68 2020-01-20 Spaghetti 9 69 2020-01-20 Spaghetti 9 70 2020-01-20 Spaghetti 9 71 2020-01-20 Spaghetti 9 72 2020-01-20 Spaghetti 9 73 2020-01-20 Spaghetti 9 74 2020-01-20 Spaghetti 9 75 2020-01-20 Spaghetti 9 76 2020-01-20 Spaghetti 9 77 2020-01-20 Spaghetti 9 78 2020-01-20 Spaghetti 9 79 2020-01-20 Spaghetti 9 80 2020-01-20 Spaghetti 9 81 2020-01-20 Spaghetti 9 82 2020-01-20 Spaghetti 9 83 2020-01-20 Spaghetti 9 84 2020-01-20 Spaghetti 9 85 2020-01-20 Spaghetti 9 86 2020-01-20 Spaghetti 9 87 2020-01-20 Spaghetti 9 88 2020-01-20 Spaghetti 9 89 2020-01-20 Spaghetti 9 90 2020-01-20 Spaghetti 9 91 2020-01-20 Spaghetti 9 92 2020-01-20 Spaghetti 9 93 2020-01-20 Spaghetti 9 94 2020-01-20 Spaghetti 9 95 2020-01-20 Spaghetti 9 96 2020-01-20 Spaghetti 9 97 2020-01-20 Spaghetti 9 98 2020-01-20 Spaghetti 9 99 2020-01-20 Spaghetti 9 100 2020-01-20 Spaghetti

SELECT

restaurant\_id,

customer\_id,

visit\_date,

food\_name

from (

SELECT

restaurant\_id,

customer\_id,

visit\_date,

sum(DIFFER\_FLAG) over (partition by restaurant\_id order by Rn) as id

FROM

(

select

t.restaurant\_id as restaurant\_id

,t.customer\_id as customer\_id

,t.visit\_date as visit\_date

,t1.visit\_date as recent\_date

,CASE WHEN t1.visit\_date is null then 1

WHEN DATEDIFF(t.visit\_date , t1.visit\_date) >3 then 1

else 0 end AS DIFFER\_FLAG

,t.rn AS Rn

from

(

select

restaurant\_id, customer\_id, visit\_date

,row\_number() over(partition by restaurant\_id order by visit\_date) as rn

from restaurant

)t

left join

(

select

restaurant\_id, customer\_id, visit\_date

,row\_number() over(partition by restaurant\_id order by visit\_date)+1 as rn

from restaurant

)t1

on t.rn = t1.rn

AND t.restaurant\_id = t1.restaurant\_id

)TT1

)TT2

LEFT JOIN FOOD TT3

ON TT2.id = TT3.food\_id;