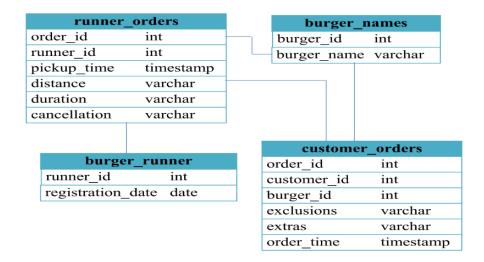
# **SQL Case Study 2: Burger Bash**

#### **SCHEMA USED**



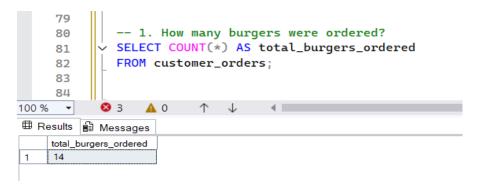
#### TABLE CREATION AND INSERTION OF VALUES

```
2
         CREATE DATABASE burger;
 3
          -- DROP DATABASE burger;
 4
         USE burger;
 5
         CREATE TABLE burger_names (
 б
             burger_id
                          INT NOT NULL PRIMARY KEY,
 7
             burger_name VARCHAR(10) NOT NULL
 8
         );
 9
10
         INSERT INTO burger_names (burger_id, burger_name) VALUES
11
         (1, 'Meatlovers'),
12
          (2, 'Vegetarian');
13
14
         CREATE TABLE runner_orders (
15
             order_id
                            INT NOT NULL PRIMARY KEY, -
16
                             INT NOT NULL,
17
             runner_id
             pickup_time DATETIME,
18
             distance
                             VARCHAR(7)
19
             duration
                             VARCHAR(10),
20
             cancellation VARCHAR(23)
21
22
         );
23
         INSERT INTO runner_orders VALUES
24
         (1, 1, '2021-01-01 18:15:34', '20km', '32 minutes', NULL), (2, 1, '2021-01-01 19:10:54', '20km', '27 minutes', NULL), (3, 1, '2021-01-03 00:12:37', '13.4km', '20 mins', NULL),
25
26
27
          (4, 2, '2021-01-04 13:53:03', '23.4', '40', NULL),
28
         (5, 3, '2021-01-08 21:10:57', '10', '15', NULL),
29
          (6, 3, NULL, NULL, 'Restaurant Cancellation'),
30
         (7, 2, '2021-01-08 21:30:45', '25km', '25mins', NULL), (8, 2, '2021-01-10 00:15:02', '23.4 km', '15 minute', NULL),
31
32
33
          (9, 2, NULL, NULL, 'Customer Cancellation'),
34
          (10, 1, '2021-01-11 18:50:20', '10km', '10minutes', NULL);
```

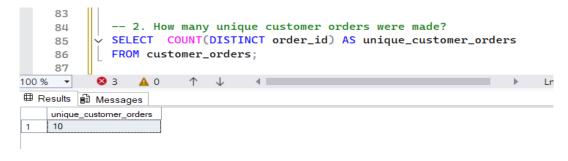
```
CREATE TABLE burger_runner (
36
                 runner_id INT NOT NULL PRIMARY KEY,
37
                 registration_date DATE NOT NULL
38
             );
39
40
             INSERT INTO burger_runner VALUES
41
             (1, '2021-01-01'),
             (2, '2021-01-03'),
42
             (3, '2021-01-08'),
43
             (4, '2021-01-15');
44
             CREATE TABLE customer_orders (
45
                 order_id
                                    INT NOT NULL.
46
                 customer_id INT NOT NULL,
47
                                    INT NOT NULL,
                 burger_id
48
                 exclusions VARCHAR(10),
49
                 extras
                                    VARCHAR(10).
50
                 order_time DATETIME NOT NULL
51
             );
52
             INSERT INTO customer_orders VALUES
53
             (1, 101, 1, NULL, NULL, '2021-01-01 18:05:02'), (2, 101, 1, NULL, NULL, '2021-01-01 19:00:52'), (3, 102, 1, NULL, NULL, '2021-01-02 23:51:23'), (3, 102, 2, NULL, NULL, '2021-01-02 23:51:23'),
54
55
56
57
             (4, 103, 1, '4', NULL, '2021-01-04 13:23:46'),
58
             (4, 103, 1, '4', NULL, '2021-01-04 13:23:46'),
59
            (4, 103, 1, '4', NULL, '2021-01-04 13:23:40'),
(4, 103, 2, '4', NULL, '2021-01-04 13:23:46'),
(5, 104, 1, NULL, '1', '2021-01-08 21:00:29'),
(6, 101, 2, NULL, NULL, '2021-01-08 21:03:13'),
(7, 105, 2, NULL, '1', '2021-01-08 21:20:29'),
(8, 102, 1, NULL, NULL, '2021-01-09 23:54:33'),
(9, 103, 1, '4', '1, 5', '2021-01-10 11:22:59'),
60
61
62
63
64
65
             (10, 104, 1, NULL, NULL, '2021-01-11 18:34:49'),
66
             (10, 104, 1, '2, 6', '1, 4', '2021-01-11 18:34:49');
67
68
```

#### **CASE STUDY QUESTIONS**

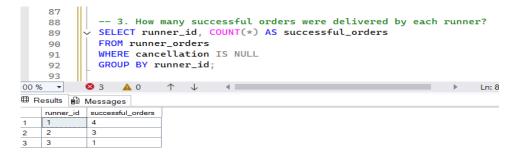
1. How many burgers were ordered?



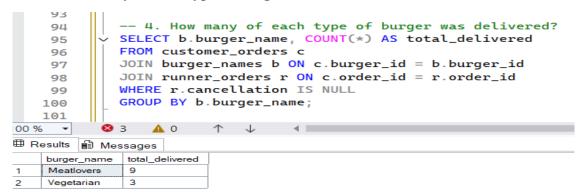
2. How many unique customer orders were made?



## 3. How many successful orders were delivered by each runner?



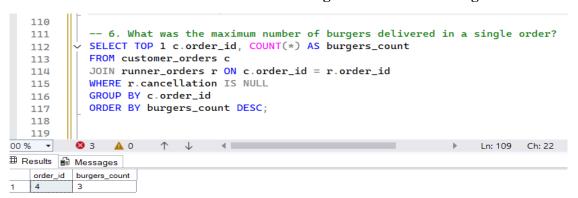
## 4. How many of each type of burger was delivered?



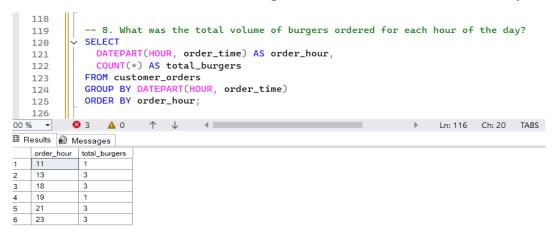
### 5. How many Vegetarian and Meatlovers were ordered by each customer?

```
101
            -- 5. How many Vegetarian and Meatlovers were ordered by each customer?
   102
           SELECT.
   103
   104
             customer_id.
             SUM(CASE WHEN burger_name = 'Vegetarian' THEN 1 ELSE 0 END) AS vegetarian_count,
   105
   106
             SUM(CASE WHEN burger_name = 'Meatlovers' THEN 1 ELSE 0 END) AS meatlovers_count
            FROM customer_orders c
   107
            JOIN burger_names b ON c.burger_id = b.burger_id
   108
            GROUP BY customer_id;
   109
   110
00 % ▼
         3 △ 0 ↑ ↓ ■
                                                        Ln: 100 Ch: 24 TABS CR
customer_id vegetarian_count meatlovers_count
   101
   102
   103
3
                       3
   104
```

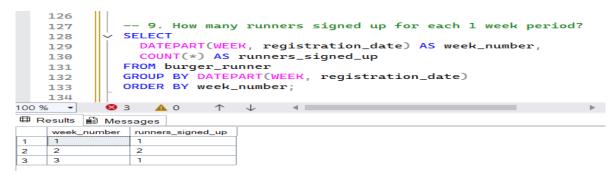
## 6. What was the maximum number of burgers delivered in a single order?



# 8. What was the total volume of burgers ordered for each hour of the day?



## 9. How many runners signed up for each 1 week period?



#### 10. What was the average distance travelled for each customer?

