

✓ **Milestone 7** | FastKitchen Customers

– Data Set **Description**

The data in this Milestone (`fastkitchen.*`) depicts orders made at a fictional takeout-only fast food restaurant in the Midwestern United States. The restaurant has an online site where customers can put in orders for carryout or delivery; customers can also make orders offline at the restaurant's storefront.

Each row in the orders table is a single order that was placed at the restaurant. This table has seven columns:

- **order_id** - unique order id, primary key
- **timestamp** - when the order was made
- **user_id** - user_id for registered accounts, blank if guest customer
- **order_type** - whether the order was made onsite, online carryout, or online delivery
- **subtotal** - base amount for the order
- **tip** - amount of tip, if any, left by the customer
- **total** - subtotal + tip

Customers have the option of creating a user account, which can be used both in person and online. The users table has five columns:

- **user_id** - unique user_id value, primary key
 - **reg_timestamp** - when the user registered their account
 - **city** - user city
 - **state** - two-letter code for state
 - **zip** - zip code
-

– **Analysis 1:** Explore information about orders.

A. The average total amount (including tips) spent per order:

```
SELECT
  ROUND(AVG(total), 2)
FROM
  fastkitchen.orders
```

An average of \$22.22 per order

- B.** Comparing the average subtotals, tips, and totals spent by each order type (onsite, carryout, delivery).

```
SELECT
  order_type,
  ROUND(AVG(subtotal), 2) AS avg_subtotal,
  ROUND(AVG(tip), 2) AS avg_tip,
  ROUND(AVG(total), 2) AS avg_total
FROM
  fastkitchen.orders
GROUP BY
  order_type
```

order_type	avg_subtotal	avg_tip	avg_total
delivery	\$20.61	\$1.87	\$22.48
onsite	\$20.18	\$1.94	\$22.11
carryout	\$20.16	\$2.01	\$22.17

C. Counting the number of orders made by **registered users**:

```
SELECT
  COUNT(*)
FROM
  fastkitchen.orders
WHERE
  user_id IS NOT NULL

1932 registered users
```

D. Finding the number of orders made by **non-registered customers**:

```
SELECT
  COUNT(*)
FROM
  fastkitchen.orders
WHERE
  user_id IS NULL

2088 non-registered users
```

There are more non-registered users than registered users.

– **Analysis 2:** Explore information about registered users.

A. Counting the number of users by city and finding which city has the highest user count:

```
SELECT
```

```
    city,  
    COUNT(user_id)  
FROM  
    fastkitchen.users  
GROUP BY  
    city  
ORDER BY  
    COUNT(user_id) DESC
```

The city that has the highest number of users is Allen with 212 users.

B. Grouping the data by zip code:

```
SELECT  
    city,  
    zip,  
    COUNT(user_id)  
FROM  
    fastkitchen.users  
GROUP BY  
    city, zip  
ORDER BY  
    COUNT(user_id) DESC
```

Yes, users come from 3 zip code areas in Allen City compared to Nulle Pointe and Maebe that only have 1 zip code area.

– **Analysis 3:** How do orders compare between zip codes and cities?

- A.** Joining the two tables on the `user_id` column, even if the order is placed by a non-registered user:

```
SELECT
    u.*,
    o.*
FROM
    fastkitchen.users as u
RIGHT JOIN
    fastkitchen.orders as o
ON u.user_id = o.user_id
```

- B.** Finding the zip code of the user with the highest amount of money spent:

```
SELECT
    u.user_id,
    u.zip,
    o.max_total
FROM
    fastkitchen.users as u
RIGHT JOIN (
    SELECT
        user_id,
        MAX(total) AS max_total
    FROM
        fastkitchen.orders
    GROUP BY
        user_id
) AS o
ON u.user_id = o.user_id
ORDER BY
    o.max_total DESC
LIMIT 1
```

The user with the highest total is a non-registered user who placed an order worth \$95.80. As they are a non-registered user, their zip is null.

- C. Finding the average total amount spent per order by zip code and how many of the zip codes spend more on average than non-registered guest customers:

```
SELECT
  u.zip,
  ROUND(AVG(o.total),2) as avg_total
FROM
  fastkitchen.users as u
RIGHT JOIN
  fastkitchen.orders as o
ON u.user_id = o.user_id
GROUP BY
  u.zip
```

Non-registered customers spend an average of \$21.98 per order. 3 of the zipcodes (63215, 63222, and 63216) spend more than \$21.98 per order.