

Question that anyone wants to know about domain

1. Most expensive taco

```
SELECT name
FROM taco
WHERE price = (SELECT MAX(price) FROM taco)
```

name
Crunchwrap Superme

Total no. of rows = 1

2. Least expensive taco

```
SELECT name
FROM taco
WHERE price = (SELECT MIN(price) FROM taco)
```

name
spicy potato soft taco

Total no. of rows = 1

3. Employee name who attended maximum number of customers (orders)

```
SELECT E.employee_id, E.first, E.last, COUNT(O.order_id) AS num_of_orders
FROM taco_cart.employee E
JOIN taco_cart.taco_order O ON E.employee_id = O.employee_id
GROUP BY E.employee_id, E.first, E.last
HAVING COUNT(O.order_id) = (select max(count) from (select employee_id, count(order_id) as count
from taco_cart.taco_order group by employee_id) as count)
```

employee_id	first	last	num_of_orders
6	Reid	Crawford	44

Total no. of rows = 1

4. Employee name who attended least number of customer (order)

```
SELECT E.employee_id, E.first, E.last, COUNT(O.order_id) AS sales
FROM taco_cart.employee E
JOIN taco_cart.taco_order O ON E.employee_id = O.employee_id
GROUP BY E.employee_id
HAVING COUNT(O.order_id) = (SELECT min(count) FROM
                           (SELECT COUNT(order_id) FROM taco_cart.taco_order
                            GROUP BY employee_id ) AS count);
```

employee_id	first	last	sales
9	Deanna	Brooks	14

Total no. of rows = 1

5. Employee with highest sales (amount) Most valuable employee

```
SELECT E.employee_id, E.first, E.last, sum(P.total_price) AS sales
FROM taco_cart.employee E
JOIN taco_cart.taco_order O ON E.employee_id = O.employee_id
JOIN taco_cart.payment P ON O.payment_id = P.payment_id
GROUP BY E.employee_id
HAVING SUM(P.total_price) = (SELECT MAX(sum) FROM
                           (SELECT sum(P.total_price)FROM taco_cart.employee E
                            JOIN taco_cart.taco_order O ON E.employee_id = O.employee_id
                            JOIN taco_cart.payment P ON O.payment_id = P.payment_id
                            GROUP BY E.employee_id) as sum)
```

employee_id	first	last	sales
6	Reid	Crawford	825.66

Total no. of rows = 1

6. Employee with least sales (amount)

```
SELECT E.employee_id, E.first, E.last, sum(P.total_price) AS sales
FROM taco_cart.employee E
JOIN taco_cart.taco_order O ON E.employee_id = O.employee_id
JOIN taco_cart.payment P ON O.payment_id = P.payment_id
GROUP BY E.employee_id
HAVING SUM(P.total_price) = (SELECT MIN(sum) FROM
                             (SELECT sum(P.total_price)FROM taco_cart.employee E
                              JOIN taco_cart.taco_order O ON E.employee_id = O.employee_id
                              JOIN taco_cart.payment P ON O.payment_id = P.payment_id
                              GROUP BY E.employee_id) as sum)
```

employee_id	first	last	sales
7	Aida	Andrews	244.04

Total no. of rows = 1

7. List of customers and their frequency of orders

```
SELECT C.customer_id, C.first, COUNT(O.order_id) AS orders
FROM taco_cart.customer C
JOIN taco_cart.taco_order O ON O.customer_id = C.customer_id
GROUP BY C.customer_id
```

customer_id	first	orders
15	Nicholas	12
12	Leonardo	14
19	Victor	12
14	Adrianna	15
17	Connie	12
20	Naomi	13
13	Valeria	14
18	Chloe	14
16	Miller	14
11	Caroline	13

Total no. of rows = 1

8. Most valuable customer (customer with highest (sum of all order's total price))

```
SELECT C.customer_id, C.first, C.last, sum(P.total_price) AS num_of_orders
FROM taco_cart.customer C
JOIN taco_cart.taco_order O On O.customer_id = C.customer_id
JOIN taco_cart.payment P on P.payment_id = O.payment_id
GROUP BY C.customer_id, C.first, C.last
HAVING sum(P.total_price) = (SELECT MAX(sum) FROM
                           (SELECT SUM(P.total_price) FROM taco_cart.customer C
                              JOIN taco_cart.taco_order O ON O.customer_id = C.customer_id
                              JOIN taco_cart.payment P ON P.payment_id = O.payment_id
                              GROUP BY C.customer_id ) AS sum)
```

customer_id	first	last	num_of_orders
12	Leonardo	Murphy	311.64

Total no. of rows = 1

9. Ingredient most used in Tacos

```
SELECT I.name, COUNT(T.taco_id) as count FROM taco_cart.taco_ingredient T
JOIN taco_cart.ingredient I ON I.ingredient_id = T.ingredient_id
GROUP BY I.name
ORDER BY count desc LIMIT 1
```

name	count
cheese	15

Total no. of rows = 1

10. Ingredient least used

```
SELECT I.name, COUNT(T.taco_id) as count FROM taco_cart.taco_ingredient T
JOIN taco_cart.ingredient I ON I.ingredient_id = T.ingredient_id
GROUP BY I.name
ORDER BY count asc LIMIT 1
order by count asc limit 1
```

name	count
crispy shell	2

Total no. of rows = 1

11. Date of highest sales

```
SELECT O.order_date, SUM(P.total_price) AS sum FROM taco_cart.taco_order O
JOIN taco_cart.payment P ON P.payment_id = O.payment_id
GROUP BY O.order_date
ORDER BY sum desc limit 1
```

order_date	sum
2020-04-17	227.41

Total no. of rows = 1

12. Most frequent mode of payment

```
SELECT method, COUNT(payment_id)
FROM taco_cart.payment
GROUP BY method
HAVING COUNT(payment_id) = (SELECT MAX(count) FROM (SELECT COUNT(payment_id)
FROM taco_cart.payment GROUP BY method) AS count)
```

method	count
card	94

Total no. of rows = 1

13. Who tends to buy frequently at Taco Cart, Male or female (customers)?

```
SELECT C.gender, count(O.order_id)
FROM taco_cart.customer C
JOIN taco_cart.taco_order O ON O.customer_id = C.customer_id
GROUP BY C.gender
HAVING COUNT (O.order_id) = (SELECT MAX(count) FROM
(SELECT COUNT(O.order_id) FROM taco_cart.customer C
JOIN taco_cart.taco_order O ON O.customer_id = C.customer_id
GROUP BY C.gender ) AS count)
```

gender	count
Female	81

Total no. of rows = 1

14. Who tends to sell more male or female (employees)

```
SELECT E.gender,count(O.order_id)
FROM  taco_cart.employee E
JOIN taco_cart.taco_order O ON O.employee_id = E.employee_id
GROUP BY E.gender
HAVING COUNT (O.order_id) = (SELECT MAX(count) FROM (SELECT COUNT(O.order_id)
FROM taco_cart.employee E
JOIN taco_cart.taco_order O ON O.employee_id = E.employee_id
GROUP BY E.gender ) as count)
```

gender	count
Male	101

Total no. of rows = 1

15. Number of orders for each payment type

```
SELECT method, COUNT(payment_id)
FROM taco_cart.payment
GROUP BY method
```

method	count
cash	23
check	16
card	94

Total no. of rows = 3

16. Top #3 Customer name who have eaten most number of tacos

```
SELECT C.first, COUNT(OT.quantity) AS count
FROM taco_cart.taco_order O
JOIN taco_cart.customer C ON O.customer_id = C.customer_id
JOIN taco_cart.order_taco_map OT ON O.order_id = OT.order_id
GROUP BY C.customer_id
ORDER BY count desc limit 3
```

first	count
Adrianna	32
Leonardo	31
Valeria	31

Total no. of rows = 3

17. Ingredient most used

```
SELECT I.name, COUNT(T.taco_id) AS count FROM taco_cart.taco_ingredient T
JOIN taco_cart.ingredient I ON I.ingredient_id = T.ingredient_id
GROUP BY I.name
ORDER BY count desc limit 1
```

name	count
cheese	15

Total no. of rows = 1

18. Most expensive non taco

```
SELECT name
FROM non_taco
WHERE price = (SELECT MAX(price) FROM non_taco);
```

name
Beer

Total no. of rows = 1

19. Ingredient least used

```
SELECT I.name, COUNT(T.taco_id) AS count
FROM taco_cart.taco_ingredient T
JOIN taco_cart.ingredient I ON I.ingredient_id = T.ingredient_id
GROUP BY I.name
ORDER BY count asc LIMIT 1
```

name	count
crispy shell	2

Total no. of rows = 1

20. Least expensive non taco

```
SELECT name
FROM non_taco
WHERE price = (SELECT MIN(price) FROM non_taco);
```

name
Water Bottle (500ml)

Total no. of rows = 1