

- -- A. Roll Metrix
- -- B. Driver and Customer Experience
- -- C. Ingredient optimization
- -- D. Pricing and Rating

1. How many rolls were ordered?

select count(roll_id) as number_of_rolls from customer_orders;

2. How many unique customers' orders were made?

select count(distinct customer_id) as no_of_customers from customer_orders;

3. How many successful orders were delivered by each driver?

select driver_id, count(distinct order_id) as no_of_orders from driver_order where cancellation not in ('Customer Cancellation', 'Cancellation')

4. How many of each type of roll was delivered?

```
select roll_id, count(roll_id) from customer_orders where order_id in ( select order_id from (select *,case when cancellation in ('Cancellation', 'Customer Cancellation') then 'c' else 'nc' end as order_cancel_details from driver_order)a where order_cancel_details= 'nc') group by roll_id;
```

5. How Many veg and non veg rolls ordered by each customer?

```
select a.*, b.roll_name from
(select customer_id, roll_id, count(roll_id) from customer_orders group by customer_id, roll_id)a
join rolls b on a.roll_id = b.roll_id;
```

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

```
select order_id, count(roll_id) from (
select * from customer_orders where order_id in(
select order_id from
(select *,case when cancellation in ('Cancellation', 'Customer Cancellation') then 'c' else 'nc'
end as order_cancel_details from driver_order)a
where order_cancel_details= 'nc'))b
group by order_id order by count(roll_id) desc limit 1;
```

7. For each customer, how many delivered rolls had at least 1 change and how many had no change?

```
with temp_customer_orders (order_id, customer_id, roll_id, not_include_items, extra_items_included, order_date) as (
select order_id, customer_id, roll_id,
case when not_include_items is null or not_include_items = " then 0 else not_include_items end as new_not_include_items,
```

```
case when extra_items_included is null or extra_items_included = "or extra_items_included = 'NaN' then '0' else extra_items_included end as new_extra_items_included,
order_date from customer_orders
),
temp_delivered_orders (order_id, driver_id, pickup_time, distance, duration, new_cancellation) as (
select order_id order_id, driver_id, pickup_time, distance, duration,
case when cancellation in ('Cancellation', 'Customer Cancellation') then 0 else 1 end as
new_cancellation
from driver_order
)
select customer_id, chg_no_chg, count(order_id) from
(
select *, case when not_include_items = '0' and extra_items_included = '0' then 'no_change' else
'change' end as chg_no_chg from temp_customer_orders where order_id in (
select order_id from temp_delivered_orders where new_cancellation != 0 ))a
group by customer_id, chg_no_chg;
```

8. How many rolls were delivered that had both exclusions and extra?

select order_id order_id, driver_id, pickup_time, distance, duration,

```
with temp_customer_orders (order_id, customer_id, roll_id, not_include_items, extra_items_included, order_date) as (
select order_id, customer_id, roll_id,
case when not_include_items is null or not_include_items = " then 0 else not_include_items end as new_not_include_items,
case when extra_items_included is null or extra_items_included = " or extra_items_included = 'NaN' then '0' else extra_items_included end as new_extra_items_included,
order_date from customer_orders
),
temp_delivered_orders (order_id, driver_id, pickup_time, distance, duration, new_cancellation) as (
```

```
case when cancellation in ('Cancellation', 'Customer Cancellation') then 0 else 1 end as
new cancellation
from driver order
)
select chg_no_chg, count(chg_no_chg) from
(
select *, case when not_include_items != 0 and extra_items_included != 0 then 'both inc exc' else
'either 1 inc or exc' end as chg_no_chg
from temp_customer_orders
where order_id in
select order_id from temp_delivered_orders where new_cancellation !=0 )
)a group by chg_no_chg;
9. What was the total number of rolls ordered for each hour of the day?
select hour bucket, count(hour bucket) as no of orders from
(SELECT *,
   CONCAT(CAST(HOUR(order date) AS CHAR(2)), '-', CAST(HOUR(order date) + 1 AS CHAR(2))) AS
hour_bucket
FROM customer_orders)a group by hour_bucket;
10. what was the number of orders for each day of week?
select Day_of_week, count(Day_of_week) from
(select *, dayname(order_date) as Day_of_week from customer_orders )a group by Day_of_week;
11. What was the average time in minutes it took for each driver to arrive at the Faasos HQ
to pick the order?
select driver_id, round(AVG(time_to_reach_HQ), 2) from (
select * from(
select *, row_number() over(partition by order_id order by time_to_reach_HQ) rnk from (
select customer_id,order_id,driver_id, abs(pick_time - order_time) as time_to_reach_HQ from
(
```

select a.order_id, a.customer_id, a.roll_id, a.not_include_items, a.extra_items_included, a.order_date ,b.driver_id,

b.pickup_time, b.distance, b.duration, b.cancellation,minute(a.order_date) as order_time, minute(b.pickup_time) as pick_time

from customer_orders a join driver_order b on a.order_id = b.order_id where b.pickup_time is not null)a)b)c where rnk = 1)D group by driver_id

12. Is there any relationship between the number of rolls and how long the order takes to prepare?

select order_id, count (roll_id), sum(diff)/count (roll_id) from

(select a.order_id, a.customer_id, a.roll_id, a.not_include_items, a.extra_items_included, a.order_date,

b.driver_id,b.pickup_time,b. distance, b.duration,b.cancellation, datediff(minute, a.order_date,b.pickup_time) diff

from customer_orders a inner join driver_order b on a.order_id=b.order_id

where b.pickup time is not null)a

group by order_id

13. What was the average distance travelled for each customer?

select customer_id, round(sum(distance_km)/COUNT(customer_id),2) as Avg_distance from (

select a.order_id, a.customer_id, a.roll_id, b.driver_id, CAST(REPLACE(REPLACE(b.distance, 'km', "), ' ', '') AS FLOAT) AS distance_km, b.duration,

CASE WHEN B.cancellation IN ('Cancellation', 'Customer Cancellation') then 'C' else 'D' end as new_cancellation

from customer_orders a join driver_order b on a.order_id = b.order_id)a where new_cancellation = 'D' group by customer id

14. What was the difference between the longest and shortest delivery times for all orders?

select max(duration)-min(duration) diff from

(

select cast(case when duration like '%min%' then left(duration,CHARINDEX('m',duration)-1) else duration end as integer)duration

from driver_order where duration is not null) A

15. What was the average speed for each driver for each delivery and do you notice any trend for these values? speed=d/t

select order_id, driver_id, distance/duration speed from

(select order_id, driver_id, cast (trim(replace(lower (distance), 'km','')) as decimal (4,2)) distance ,cast(case when duration like '%min%' then left (duration, charindex('m', duration)-1) else

duration end as integer) as duration from driver_order where distance is not null)a;

16. What is the successful delivery percentage for each driver?

-- sdp total orders successfully delivered/ total orders taken

select driver_id, s*1.0/t cancelled_per from

(select driver_id, sum(can_per) s, count(driver_id) t from

(select driver_id, case when lower (cancellation) like '%cancel%' then 0 else 1 end as can_per from driver_order) a group by driver_id)b;