

```
-- 1. How many pizza were ordered?
select count(pizza_id) AS total_number_of_pizza_ordered from customer_orders

-- 2. How many unique customer_orders were made?
select count(distinct order_id) AS number_of_distinct_customer_orders from customer_orders

-- 3. How many successful orders were delivered by each runner?
select ro.runner_id, count(ro.order_id) AS delivered_orders from runner_orders AS ro
where ro.pickup_time != 'NULL'
group by ro.runner_id
```

97 %

Results Messages

|   | runner_id | delivered_orders |
|---|-----------|------------------|
| 1 | 1         | 4                |
| 2 | 2         | 3                |
| 3 | 3         | 1                |

```
-- 4. How many of each type of pizza was delivered?
SELECT
  pn.pizza_name,
  COUNT(co.order_id) as total_number_of_delivered_orders
FROM
  customer_orders as co
  INNER JOIN pizza_names as pn on co.pizza_id = pn.pizza_id
  INNER JOIN runner_orders as ro on ro.order_id = co.order_id
WHERE
  ro.pickup_time != 'NULL'
GROUP BY
  pn.pizza_name;

-- 5. How many Vegetarian and MeatLovers were ordered by each customers?
select count(co.pizza_id) as total_number_of_pizzas_ordered, co.customer_id, pn.pizza_name from customer_orders as co
inner join pizza_names as pn on co.pizza_id = pn.pizza_id
group by co.customer_id, pn.pizza_name
```

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-- 6. What was the maximum order of pizzas delivered in a single order?

```
SELECT
-- TOP 1
ro.order_id,
COUNT(co.pizza_id) as number_of_delivered_pizzas
FROM
customer_orders as co
INNER JOIN runner_orders as ro on ro.order_id = co.order_id
WHERE
ro.pickup_time != 'NULL'
GROUP BY
ro.order_id
ORDER BY
COUNT(co.order_id) DESC
```

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Results Messages

|   | order_id | number_of_delivered_pizzas |
|---|----------|----------------------------|
| 1 | 4        | 3                          |
| 2 | 3        | 2                          |
| 3 | 10       | 2                          |
| 4 | 1        | 1                          |
| 5 | 2        | 1                          |
| 6 | 5        | 1                          |
| 7 | 7        | 1                          |
| 8 | 8        | 1                          |

✓ Query executed successfully.

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

```
select co.customer_id,
COUNT(CASE WHEN (co.exclusions IS NOT NULL AND co.exclusions != 'NULL' AND LEN(co.exclusions) > 0)
AND (co.extras IS NOT NULL AND co.extras != 'null' AND LEN(co.extras) > 0) THEN co.pizza_id ELSE NULL END) AS number_of_delivered_pizzas_with_one_change,
COUNT(CASE WHEN (co.exclusions IS NULL AND co.exclusions = 'NULL' AND LEN(co.exclusions) > 0)
AND (co.extras IS NULL AND co.extras = 'NULL' AND LEN(co.extras) > 0) THEN co.pizza_id ELSE NULL END) AS number_of_delivered_pizzas_with_no_chnage
from customer_orders as co
inner join runner_orders as ro on co.order_id = co.order_id
where ro.pickup_time != 'NULL'
group by co.customer_id
```

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```
-- 8. How many pizzas were delivered that had both exclusions and extras
select COUNT(co.pizza_id) as number_of_pizzas_delivered from customer_orders as co
inner join runner_orders as ro
on co.order_id = ro.order_id
where ro.pickup_time != 'NULL'
AND
(co.exclusions IS NOT NULL and co.exclusions != 'NULL' and LEN(co.exclusions)>0)
AND
(co.extras IS NOT NULL and co.extras != 'NULL' and LEN(co.extras)>0)
```

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Results Messages

|   | number_of_pizzas_delivered |
|---|----------------------------|
| 1 | 1                          |

```
-- 9. What was the total volume of pizzas ordered for each hour of the day?
select COUNT(order_id) AS total_volume_of_orders,
DATEPART(hour, order_time) AS hour
from customer_orders
group by DATEPART(hour, order_time)
```

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Results Messages

|   | total_volume_of_orders | hour |
|---|------------------------|------|
| 1 | 1                      | 11   |
| 2 | 3                      | 13   |
| 3 | 3                      | 18   |
| 4 | 1                      | 19   |
| 5 | 3                      | 21   |
| 6 | 3                      | 23   |

✓ Query executed successfully.

```
-- 10. What was the volume of orders for each day of the week?
select COUNT(order_id) AS total_volume_orders,
DATEPART(WEEKDAY, order_time) AS week_day,
DATENAME(DW, order_time) AS day_name_of_the_week
from customer_orders
group by DATEPART(WEEKDAY, order_time), DATENAME(DW, order_time)
```

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Results Messages

|   | total_volume_orders | week_day | day_name_of_the_week |
|---|---------------------|----------|----------------------|
| 1 | 1                   | 6        | Friday               |
| 2 | 5                   | 7        | Saturday             |
| 3 | 3                   | 5        | Thursday             |
| 4 | 5                   | 4        | Wednesday            |

```
-- 11. Select * from the runners table plus extract the name of the day and start of week from the date column
select *,
DATENAME(WEEKDAY, registration_date) AS day_name,
DATETRUNC(WEEK, registration_date) AS start_of_week
from runners
```

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Results Messages

|   | runner_id | registration_date | day_name | start_of_week |
|---|-----------|-------------------|----------|---------------|
| 1 | 1         | 2021-01-01        | Friday   | 2020-12-27    |
| 2 | 2         | 2021-01-03        | Sunday   | 2021-01-03    |
| 3 | 3         | 2021-01-08        | Friday   | 2021-01-03    |
| 4 | 4         | 2021-01-15        | Friday   | 2021-01-10    |

```
-- 12. How many runners signed up for each start_of_week
select COUNT(runner_id) AS number_of_runners,
       DATETRUNC(WEEK, registration_date) AS start_of_week
from runners
group by DATETRUNC(WEEK, registration_date)
```

97 %



Results



Messages

|   | number_of_runners | start_of_week |
|---|-------------------|---------------|
| 1 | 1                 | 2020-12-27    |
| 2 | 2                 | 2021-01-03    |
| 3 | 1                 | 2021-01-10    |