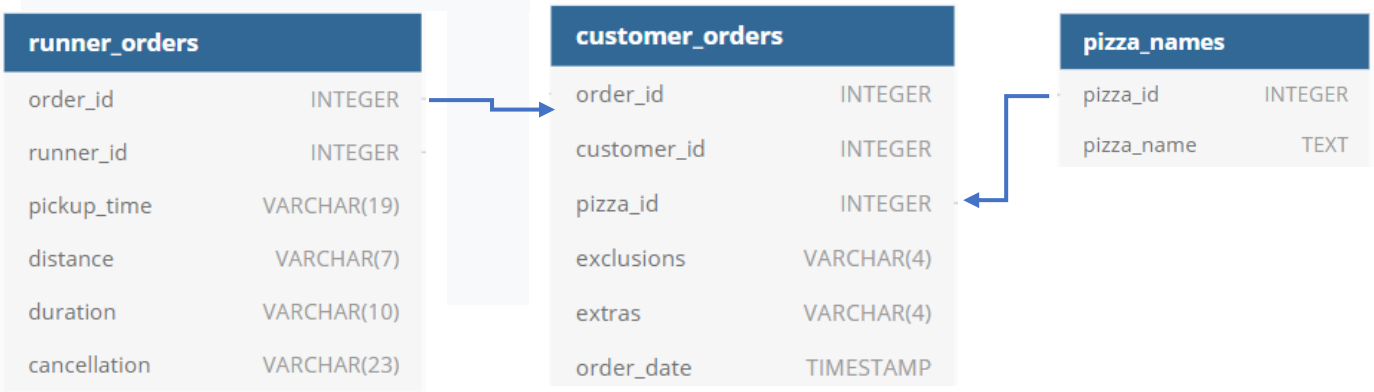
Schema



Queries

1. How many pizzas were ordered?

```sql
SELECT
    COUNT(order_id) AS total_orders
FROM
    pizza_runner.customer_orders;
```

Output:

total_orders
14

2. How many unique customer orders were made?

```sql
SELECT
    COUNT(DISTINCT(customer_id))
FROM
    pizza_runner.customer_orders;
```

Output:

count
5

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

```sql
SELECT
    runner_id, COUNT(runner_id)
FROM
    pizza_runner.runner_orders
WHERE
    cancellation IS NULL
GROUP BY
    runner_id;
```

Output:

runner_id	count
1	4
2	3
3	1

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

```sql
SELECT
    pizza_id, COUNT(pizza_id)
FROM
    pizza_runner.customer_orders
GROUP BY
    pizza_id;
```

Output:

pizza_id	count
2	4
1	10

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

```sql
SELECT
  customer_id, pizza_name, COUNT(pizza_name) AS total_pizza
FROM
  pizza_runner.customer_orders c
  JOIN pizza_runner.pizza_names p
  ON p.pizza_id = c.pizza_id
GROUP BY
  customer_id, pizza_name
ORDER BY
  customer_id, total_pizza DESC;
```

Output:

customer_id	pizza_name	total_pizza
101	Meatlovers	2
101	Vegetarian	1
102	Meatlovers	2
102	Vegetarian	1
103	Meatlovers	3
103	Vegetarian	1
104	Meatlovers	3
105	Vegetarian	1

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

```sql
SELECT
    MAX(total_del_order)
FROM
    (SELECT
        order_id, COUNT(order_id) AS total_del_order
     FROM
        pizza_runner.customer_orders
GROUP BY order_id)order_count;
```

Output:

max
3

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

```
    SELECT
        customer_id, changes, COUNT(changes)
    FROM  (
        SELECT *,
          CASE
          WHEN (exclusions IS NOT null OR extras IS NOT null) THEN 'Change'
          ELSE 'No change'
          END changes
        FROM pizza_runner.customer_orders) changes
    GROUP BY
        customer_id, changes
    ORDER BY
        customer_id;
```

Output:

customer_id	changes	count
101	No change	3
102	No change	3
103	Change	4
104	No change	1
104	Change	2
105	Change	1

8. How many pizzas were delivered that had both exclusions and extras?

```
SELECT
   COUNT(pizza_id) AS execution_and_extras
FROM
   pizza_runner.customer_orders
WHERE
   exclusions IS NOT null AND extras IS NOT null;
```

Output:

execution_and_extras
2

9. What was the total volume of pizzas ordered for each hour of the day?

```
SELECT hours, COUNT(hours)
FROM(
    SELECT date_part('hour', order_time) AS hours
    FROM pizza_runner.customer_orders) order_in_hrs
GROUP BY
    hours
ORDER BY
    hours;
```

Output:

hours	count
11	1
12	2
13	3
18	3
19	1
21	3
23	1

10. What was the volume of orders for each day of the week?

```
SELECT days, COUNT(days)
FROM(
   SELECT date_part('day', order_time) AS days
   FROM pizza_runner.customer_orders)order_on_days
GROUP BY
   days
ORDER BY
   days;
```

Output:

days	count
1	2
2	2
4	3
8	3
9	1
10	1
11	2