SQL Case Study 2: Burger Bash

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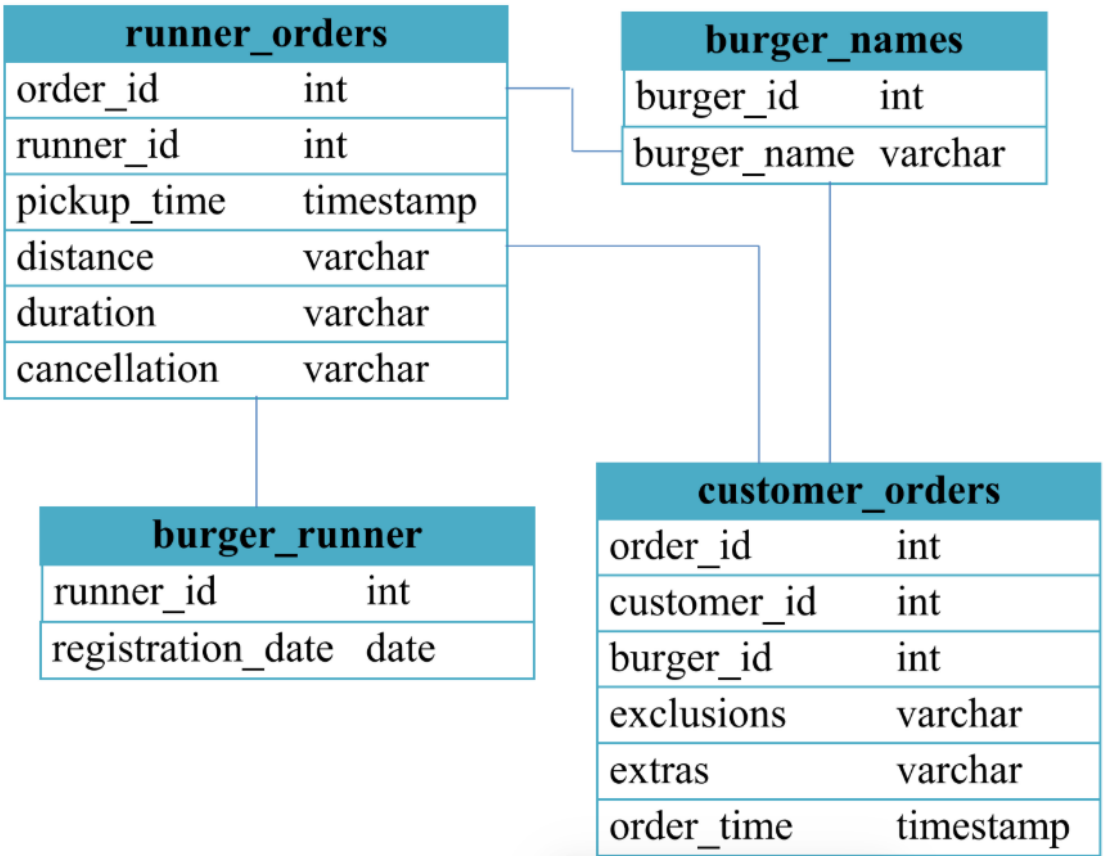
INTRODUCTION:

I have a started a new business of selling burger because I read on my Instagram feed that „Burger Is the Future!

But I knew that burger alone was not going to help me get seed funding to expand my new Burger Empire - so I had one more genius idea to combine with it - I was going to Uberize it - and so Burger Runner was launched!

I started by recruiting “runners” to deliver fresh burger from Burger Runner Headquarters and also maxed out my credit card to pay freelance developers to build a mobile app to accept orders from customers.

SCHEMA USED



CASE STUDY QUESTIONS

1. How many burgers were ordered?

select count(burger_id) burger from customer_orders;

	burger
1	14

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2. How many unique customer orders were made?

select count(distinct customer_id) Unique_customer from customer_orders;

	Unique_customer
1	5

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

select runner_id,count(*) as orders from runner_orders

where cancellation is NULL

group by runner_id;

	runner_id	orders
1	1	4
2	2	3
3	3	1

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

select c.burger_id,burger_name,count(*) Burger_count

from customer_orders c join burger_names b on c.burger_id =b.burger_id join runner_orders r on c.order_id=r.order_id

where r.cancellation is NULL

group by c.burger_id,b.burger_name;

	burger_id	burger_name	Burger_count
1	1	Meatlovers	9
2	2	Vegetarian	3

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

select customer_id,burger_name, count(c.burger_id) as No_of_burgers from customer_orders c join burger_names b on c.burger_id = b.burger_id

group by c.burger_id,customer_id,burger_name;

	customer_id	burger_name	No_of_burgers
1	101	Meatlovers	2
2	101	Vegetarian	1
3	102	Meatlovers	2
4	102	Vegetarian	1
5	103	Meatlovers	3
6	103	Vegetarian	1
7	104	Meatlovers	3
8	105	Vegetarian	1

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

select max(burger_count) Max_count from (select order_id,count(*) as burger_count from customer_orders

group by order_id)a

	Max_count
1	3

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

select customer_id,sum(case when (exclusions is NULL and extras is null)then 1 else 0 end) as without_Changes,

sum(case when (exclusions is not NULL or extras is not null)then 1 else 0 end) as with_changes

from customer_orders c join runner_orders r on c.order_id=r.order_id

where cancellation is null

group by customer_id;

	customer_id	without_Changes	with_changes
1	101	2	0
2	102	3	0
3	103	0	3
4	104	1	2
5	105	0	1

8. What was the total volume of burgers ordered for each hour of the day?

```
select DATEPART(HOUR,order_time) as Order_hour, count(*) as Burger from customer_orders
group by DATEPART(HOUR,order_time)
order by 1;
```

	Order_hour	Burger
1	11	1
2	13	3
3	18	3
4	19	1
5	21	3
6	23	3

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9. How many runners signed up for each 1 week period?

```
select  datepart(week, registration_date) as reg_week,count(*) as runners_signed_up
from burger_runner
group by datepart(year, registration_date), datepart(week, registration_date)
order by  reg_week;
```

	reg_week	runners_signed_up
1	1	1
2	2	2
3	3	1

---

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

```
select c.customer_id,avg(try_cast(replace(replace(r.distance, 'km', ''), ' ', '') as float)) as avg_distance_km
from customer_orders c join runner_orders r on c.order_id = r.order_id
where r.cancellation is null
group by c.customer_id;
```

	customer_id	avg_distance_km
1	101	20
2	102	16.7333333333333
3	103	23.4
4	104	10
5	105	25