

SQL CASE STUDY

BURGER BASH





INTRODUCTION



Alex have started a new business of selling burger because he read on his Instagram feed that "Burger Is the Future!"

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

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





Schema Used



runner_orders	
order_id	int
runner_id	Int
pickup_time	timestamp
distance	varchar
duration	varchar
cancellation	varchar

burger_names	
burger_id	int
burger_name	varchar

customer_orders	
order_id	int
customer_id	Int
burger_id	int
exclusions	varchar
extras	varchar
order_time	timestamp

burger_runner	
runner_id	int
registration_date	date





Question 1



How many burgers were ordered ?

```
1 • SELECT COUNT(*) as 'no of orders'
2 FROM runner_orders;
3
```

	no of orders
▶	10





Question 2

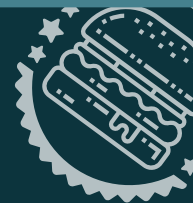


How many unique customer orders were made ?

```
1 • SELECT COUNT(DISTINCT order_id) AS unique_orders
2   FROM customer_orders;
3
```

	unique_orders
▶	10





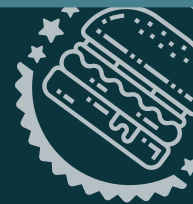
Question 3

How many successful orders were delivered by each runner ?

```
1 • SELECT
2     runner_id,
3     COUNT(DISTINCT order_id) AS successful_orders
4 FROM runner_orders
5 WHERE cancellation IS NULL
6 GROUP BY runner_id
7 ORDER BY successful_orders DESC;
```

	runner_id	successful_orders
▶	1	4
	2	3
	3	1





Question 4

How many of each type of burger was delivered ?

```
1 • SELECT p.burger_name, COUNT(c.burger_id) AS delivered_burger_count
2 FROM customer_orders AS c
3 JOIN runner_orders AS r
4     ON c.order_id = r.order_id
5 JOIN burger_names AS p
6     ON c.burger_id = p.burger_id
7 WHERE r.distance !=0
8 GROUP BY p.burger_name;
```

	burger_name	delivered_burger_count
▶	Meatlovers	9
	Vegetarian	3



Question 5



How many Vegetarian and Meatlovers were ordered by each customer ?

```
1 • SELECT c.customer_id, p.burger_name, COUNT(p.burger_name) AS order_count
2 FROM customer_orders AS c
3 JOIN burger_names AS p
4     ON c.burger_id = p.burger_id
5 GROUP BY c.customer_id, p.burger_name
6 ORDER BY c.customer_id;
```

	customer_id	burger_name	order_count
▶	101	Meatlovers	2
	101	Vegetarian	1
	102	Meatlovers	2
	102	Vegetarian	1
	103	Meatlovers	3
	103	Vegetarian	1
	104	Meatlovers	3
	105	Vegetarian	1



Question 6



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

```
1 • WITH burger_count_cte AS
2 (
3   SELECT c.order_id, COUNT(c.burger_id) AS burger_per_order
4   FROM customer_orders AS c
5   JOIN runner_orders AS r
6     ON c.order_id = r.order_id
7   WHERE r.distance != 0
8   GROUP BY c.order_id
9 )
10 SELECT MAX(burger_per_order) AS burger_count
11 FROM burger_count_cte;
```

	burger_count
▶	3





Question 7



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

```
1 • SELECT c.customer_id,  
2 SUM(CASE  
3     WHEN c.exclusions <> ' ' OR c.extras <> ' ' THEN 1  
4     ELSE 0  
5     END) AS at_least_1_change,  
6 SUM(CASE  
7     WHEN c.exclusions = ' ' AND c.extras = ' ' THEN 1  
8     ELSE 0  
9     END) AS no_change  
10 FROM customer_orders AS c  
11 JOIN runner_orders AS r  
12     ON c.order_id = r.order_id  
13 WHERE r.distance !=0  
14 GROUP BY c.customer_id  
15 ORDER BY c.customer_id;
```

	customer_id	at_least_1_change	no_change
▶	101	0	0
	102	0	0
	103	3	0
	104	2	0
	105	1	0



Question 8



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

```
1 • SELECT EXTRACT(HOUR FROM order_time) AS hour_of_day,  
2         COUNT(order_id) AS burger_count  
3 FROM customer_orders  
4 GROUP BY EXTRACT(HOUR from order_time);
```

	hour_of_day	burger_count
▶	18	3
	19	1
	23	3
	13	3
	21	3
	11	1



Question 9



How many runners signed up for each 1 week period ?

```
1 • SELECT EXTRACT(WEEK FROM registration_date) AS registration_week,  
2       COUNT(runner_id) AS runner_signup  
3 FROM burger_runner  
4 GROUP BY EXTRACT(WEEK FROM registration_date);
```

	registration_week	runner_signup
▶	0	1
	1	2
	2	1





Question 10



What was the average distance travelled for each customer ?

```
1 • SELECT c.customer_id, AVG(r.distance) AS avg_distance
2   FROM customer_orders AS c
3  JOIN runner_orders AS r
4    ON c.order_id = r.order_id
5  WHERE r.duration !=0
6  GROUP BY c.customer_id;
```

	customer_id	avg_distance
▶	101	20
	102	16.733333333333334
	103	23.399999999999995
	104	10
	105	25



Thank You



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