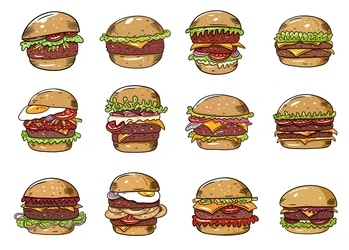
**SQL Case Study: Burger Bash**



**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**

|  |  |
| --- | --- |
| 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 |

|  |  |  |
| --- | --- | --- |
| burger\_runner | | |
| runner\_id | int |
| registration\_date | | date |

|  |  |
| --- | --- |
| customer\_orders | |
| order\_id | int |
| customer\_id | int |
| burger\_id | int |
| exclusions | varchar |
| extras | varchar |
| order\_time | timestamp |

**CASE STUDY QUESTIONS**

1. How many burgers were ordered?
2. How many unique customer orders were made?
3. How many successful orders were delivered by each runner?
4. How many of each type of burger was delivered?
5. How many Vegetarian and Meatlovers were ordered by each customer?
6. What was the maximum number of burgers delivered in a single order?
7. For each customer, how many delivered burgers had at least 1 change and how many had no changes?
8. What was the total volume of burgers ordered for each hour of the day?
9. How many runners signed up for each 1 week period?
10. What was the average distance travelled for each customer?

First we have to create a Database:

Syntax: Create Database Database Name

Then we use this Databaes:

Syntax: Use Database Name

* create database burger\_bash;
* use burger\_bash;

-----------------------------------------------------------------------------

1. How many burgers were ordered?

Solution:

select count(\*) as No\_of\_Records

from runner\_orders;

Output:



2. How many unique customer orders were made?

Solution:

select count(distinct order\_id) as Unique\_Order

from customer\_orders;

Output:



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

Solution:

select runner\_id,count(order\_id) as Successfull\_Order

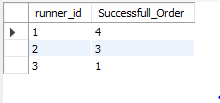
from runner\_orders

where cancellation is null

group by 1

order by 2 desc;

Output:



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

Solution:

select c.burger\_name,count(a.burger\_id) as delivered\_burger\_count

from customer\_orders as a

join runner\_orders as b

on a.order\_id = b.order\_id

join burger\_names as c

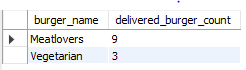
on a.burger\_id = c.burger\_id

**## Writing Diatance becase we want Order to be Delivered**

where b.distance != 0

group by c.burger\_name;

Output:



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

Solution:

select a.customer\_id,b.burger\_name, count(b.burger\_name) as Order\_Count

from customer\_orders as a

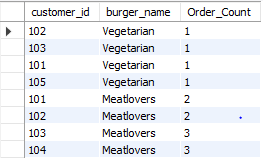
join burger\_names as b

on a.burger\_id = b.burger\_id

group by 1,2

order by 3;

Output:



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

Solution:

with cte\_burger\_count as(

select a.order\_id, count(a.burger\_id) as burger\_Per\_Order

from customer\_orders as a

join runner\_orders as b

on a.order\_id = b.order\_id

**## Writing Diatance becase we want Order to be Delivered**

where b.distance!= 0

group by 1

)

select max(burger\_Per\_Order) as burger\_count

from cte\_burger\_count;

-- ..........................Same Code Without CTE ...................

select max(Burger\_Per\_Order) as Maximum\_Order

from

(select a.order\_id,count(a.burger\_id) as Burger\_Per\_Order

from customer\_orders as a

join runner\_orders as b

on a.order\_id = b.order\_id

**## Writing Diatance becase we want Order to be Delivered**

where b.distance != 0

group by 1) a

Output:



7. For each customer, how many delivered burgers had at least 1 change and

how many had no changes?

Solution:

select a.customer\_id,

sum(case when a.exclusions != " " or a. extras != " " then 1 else 0 End) as At\_Least\_1\_Change,

sum(case when a.exclusions = " " and a.extras = " " then 1 else 0 End) as No\_Change

from customer\_orders as a

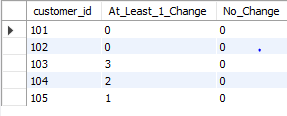
join runner\_orders as b

on a.order\_id = b.order\_id

where distance != 0

group by 1;

Output:



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

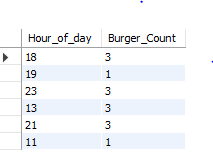
Solution:

select hour(order\_time) as Hour\_of\_day,count(order\_id) as Burger\_Count

from customer\_orders

group by 1;

Output:



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

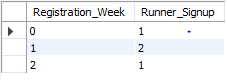
Solution:

select week(registration\_date) as Registration\_Week,count(runner\_id) as Runner\_Signup

from burger\_runner

group by 1;

Output:



10.What was the average distance travelled for each customer

Solution:

select a.customer\_id,avg(b.distance) as Avg\_Distance

from customer\_orders as a

join runner\_orders as b

on a.order\_id = b.order\_id

**## Writing Diatance becase we want Order to be Delivered**

where b.duration != 0

group by a.customer\_id;

Output:

