

Davie's Burgers Subway Ad

Analyze Data with SQL

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Problem Statement:

Well, Davie's Burgers restaurant business has been booming and it is now looking to place a catchy advertisement in the local subway station.

Help them dig into their orders table to see if there is anything interesting in there for a funny tagline!

Task needs to be achieved:

1. What are the column names?
2. How recent is this data?
3. Write a query that selects only the “special_instructions” column.
4. Edit the query so that we are only returning the special instructions that are not empty?
5. Sort the instructions in alphabetical order (A-Z).
6. Let's search for special instructions that have the word 'sauce'.
7. Let's search for special instructions that have the word 'door'.
8. Let's search for special instructions that have the word 'box'.
9. Wow, some of these are marketing gold! But what are their order numbers?
10. Instead of just returning the special instructions, also return their order ids.

1. What are the column names?

The orders table has the following column names:

id

user_id

order_date

restaurant_id

item_name

special_instruction

```
select *  
from orders  
limit 10;
```

Query Results					
id	user_id	order_date	restaurant_id	item_name	special_instructions
1	43	2017-05-10	6	Beef Enchilada	ketchup
2	9	2017-06-30	3	Samosa	Ø
3	37	2017-06-15	1	Chicken Fajitas	Pickles on the side.
4	31	2017-06-13	5	Picadillo	SRIRACHA SAUCE
4	31	2017-06-13	5	Taquitos	Ø
5	22	2017-06-16	6	Beef Enchilada	no red onions.
5	22	2017-06-16	6	Beef Enchilada	Ø
5	22	2017-06-16	6	Flautas	Ø
5	22	2017-06-16	6	Salsa	Ø
6	27	2017-06-09	13	Cannelloni	Ø

2. How recent is this data?

It looks like this data is from May and June of 2017.

```
select distinct order_date
from orders
order by order_date desc;
```

Query Results

order_date

2017-06-30
2017-06-28
2017-06-27
2017-06-26
2017-06-25
2017-06-24
2017-06-23
2017-06-22
2017-06-21
2017-06-18
2017-06-17
2017-06-16
2017-06-15
2017-06-13
2017-06-11
2017-06-10
2017-06-09
2017-06-08
2017-06-06
2017-06-05
2017-06-04
2017-06-03
2017-06-02
2017-06-01
2017-05-31

3. Write a query that selects only the “special_instruction” column

The special_instructions column stores the data where Davie’s Burgers customers leave a note for the kitchen or the delivery.

Limit the result to 20 rows.

```
select special_instructions
from orders
limit 20;
```

Query Results
special_instructions
ketchup
Ø
Pickles on the side.
SRIRACHA SAUCE
Ø
no red onions.
Ø
Ø
Ø
Ø
Ø
Ø
ring doorbell
Ø
Ø
Hey! You forgot my pickles last time. Pickles in a separate container please.
Ø
Ø
Ø
Ø

4. Edit the query so that we are only returning the special instructions that are not empty?

There seem to be a lot of empty values in that column. That is because customers sometimes leave the notes section blank.

```
select special_instructions
from orders
where special_instructions is not null
limit 10;
```

Query Results
special_instructions
ketchup
Pickles on the side.
SRIRACHA SAUCE
no red onions.
ring doorbell
Hey! You forgot my pickles last time. Pickles in a separate container please.
asdf
Walk to the garage and start singing the Lion King intro. I'll come out.
DIET coke
DIET coke
The gate is tricky, please don't break it.
Draw a dragon fighting flamingo on the pizza box.
The spider on the front porch is Frank. Frank guards the tomatoes. Be nice to Frank.
kids sleeping, please don't ring the doorbell thank u!
mayonnaise
Yell Pizza three times so we know you are not NYPD.
blank
blank
Cut the pizza into Pokeball.
I live in the Tiny House in the backyard - behind the Oak.

5. Sort the instructions in alphabetical order (A-Z).

```
select special_instructions
from orders
where special_instructions is not null
order by special_instructions asc;
```

Query Results

special_instructions

#hangry
#hangry
#hangry
DIET coke
DIET coke
.
Arrange the meat on the pizza so that it spells out the name of each meat.
BBQ sauce
Beef milk please
Cleanse yourself with the sage in the mailbox.
Cut Pizza into concentric circles.
Cut the pizza into Pokeball.
Cut the pizza into pentagram \m/
Don't forget the drinks thanks!
Door Code: Codecademy
Draw Yoda on pizza box.
Draw a dragon fighting flamingo on the pizza box.
Draw a narwhal on the delivery box.
Hey! You forgot my pickles last time. Pickles in a separate container please.
I live in the Tiny House in the backyard - behind the Oak.
KNOCK LOUD LIKE THE COPS FOR \$20 TIP
Pickles on the side.
Please make one additional tiny version of my order for my hamster.
Please please please please please do not give me ANY plasticware #motherearth
SRIRACHA SAUCE

6. Let's search for special instructions that have the word 'sauce'.

```
select special_instructions
from orders
where special_instructions like '%sauce%';
```

Query Results
special_instructions
SRIRACHA SAUCE
BBQ sauce
mild sauce

7. Let's search for special instructions that have the word 'door'.

```
select special_instructions
from orders
where special_instructions like
'%door%';
```

Query Results

special_instructions

ring doorbell

kids sleeping. please don't ring the doorbell thank u!

Door Code: Codecademy

super hungover. let yourself in pass the fridge turn left and double doors my bedroom. im in my pajamas watching james bond 1love

8. Let's search for special instructions that have the word 'box'.

```
select special_instructions
from orders
where special_instructions like '%box%';
```

Query Results

special_instructions

Draw a dragon fighting flamingo on the pizza box.

Cleanse yourself with the sage in the mailbox.

Draw a narwhal on the delivery box.

write me a poem on the pizza box.

Draw Yoda on pizza box.

beat me tic-tac-toe on the pizza box for \$5 tip

beat me tic-tac-toe on the pizza box for \$5 tip

my coworker and i are working overtime. can u write some inspiration/motivations on the box. u rock!

9. Wow, some of these are marketing gold! But what are their order numbers?

```
select id,  
       special_instructions  
from orders  
where special_instructions like '%box%';
```

Query Results

id	special_instructions
15	Draw a dragon fighting flamingo on the pizza box.
27	Cleanse yourself with the sage in the mailbox.
28	Draw a narwhal on the delivery box.
29	write me a poem on the pizza box.
40	Draw Yoda on pizza box.
62	beat me tic-tac-toe on the pizza box for \$5 tip
95	beat me tic-tac-toe on the pizza box for \$5 tip
97	my coworker and i are working overtime. can u write some inspiration/motivations on the box. u rock!

10. Instead of just returning the special instructions, also return their order ids.

For more readability:

Rename id as '#'

Rename special_instructions as 'Notes'

```
select id ,  
       special_instructions  
from orders  
where special_instructions like '%box%';
```

Query Results

#	Notes
15	Draw a dragon fighting flamingo on the pizza box.
27	Cleanse yourself with the sage in the mailbox.
28	Draw a narwhal on the delivery box.
29	write me a poem on the pizza box.
40	Draw Yoda on pizza box.
62	beat me tic-tac-toe on the pizza box for \$5 tip
95	beat me tic-tac-toe on the pizza box for \$5 tip
97	my coworker and i are working overtime. can u write some inspiration/motivations on the box. u rock!