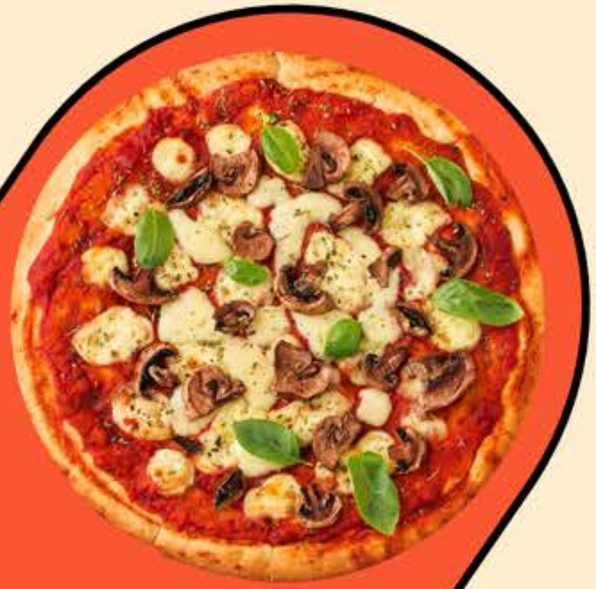
THE GREAT PIZZA ANALYTICS CHALLENGE



PRESENTED BY TIRUNAGARI DEEPTHI

WELCOME TO IDC PIZZA ANALYTICS

Get ready to slice into data, sprinkle insights, and bake the perfect story with your analytical skills. This challenge is all about creativity, smart thinking, and a dash of fun. Let’s cook up some brilliant ideas and serve insights hotter than a fresh pizza! 🔥📊

GOAL OF IDC PIZZA CHALLENGE

- Database creation & table design
- Filtering & operators
- Aggregations
- Joins
- Data Cleaning

IDC_PIZZA
PROJECT DETABASE

P

1. Order_details
2. Orders
3. Pizza_types
4. Pizzas

Questions:

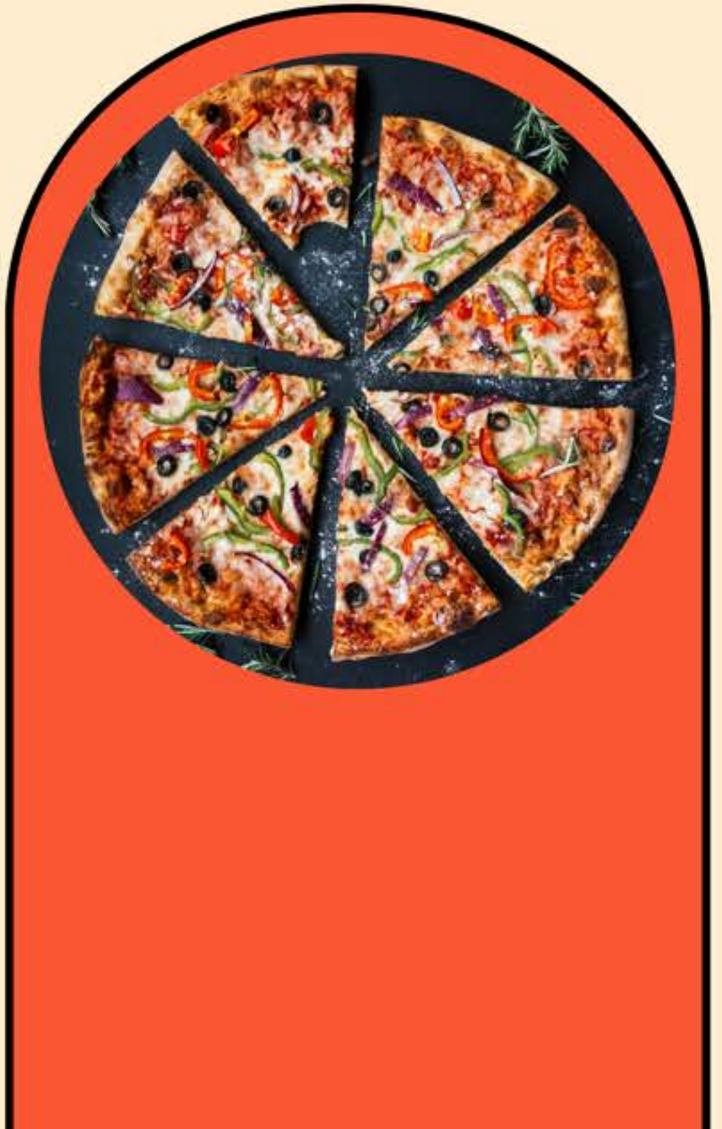
FOUNDATION & INSPECTION

1.List all unique pizza categories (DISTINCT).

```
14 •    select distinct category from pizza_types;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category
Chicken
Classic
Supreme
Veggie

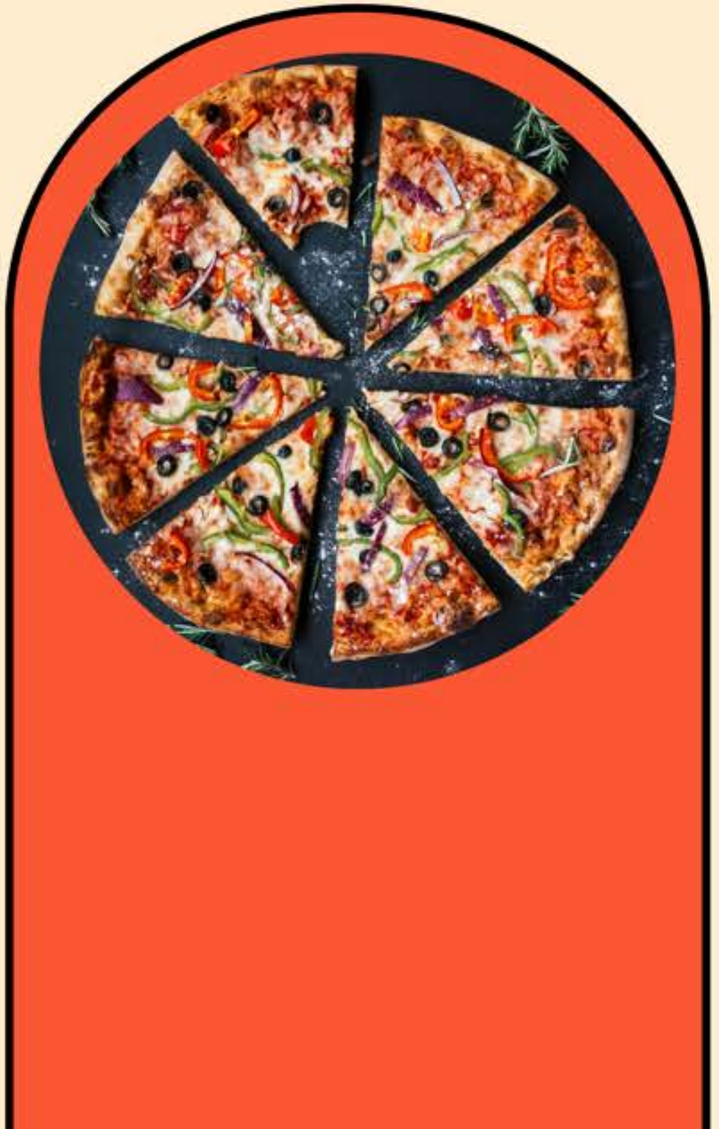


2.Display pizza_type_id, name and ingredients,replacing NULL ingredients with “Missing Data"Show first 5 rows.

```
35
36 •  select pizza_type_id, name, ingredients ,coalesce(ingredients ,"Missing Data") from pizza_types limit 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

pizza_type_id	name	ingredients	coalesce(ingredients ,"Missing Data")
bbq_ckn	The Barbecue Chicken Pizza	Barbecued Chicken, Red Peppers, Green Peppe...	Barbecued Chicken, Red Peppers, Green Peppe...
cali_ckn	The California Chicken Pizza	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
ckn_alfredo	The Chicken Alfredo Pizza	Chicken, Red Onions, Red Peppers, Mushrooms...	Chicken, Red Onions, Red Peppers, Mushrooms...
ckn_pesto	The Chicken Pesto Pizza	Chicken, Tomatoes, Red Peppers, Spinach, Garl...	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
southw_ckn	The Southwest Chicken Pizza	Chicken, Tomatoes, Red Peppers, Red Onions, ...	Chicken, Tomatoes, Red Peppers, Red Onions, ...

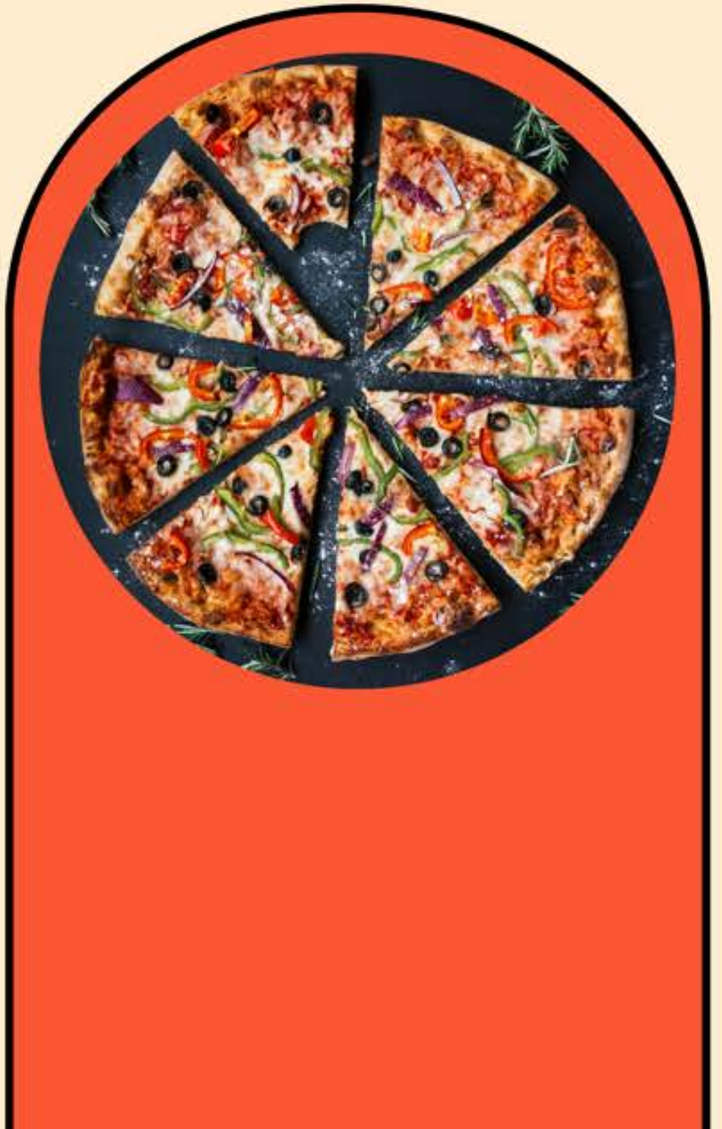


3.Check for pizzas missing a price (IS NULL).

```
13
14 •  select pizza_id from pizzas where price is null;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_id



FILTERING & EXPLORATION

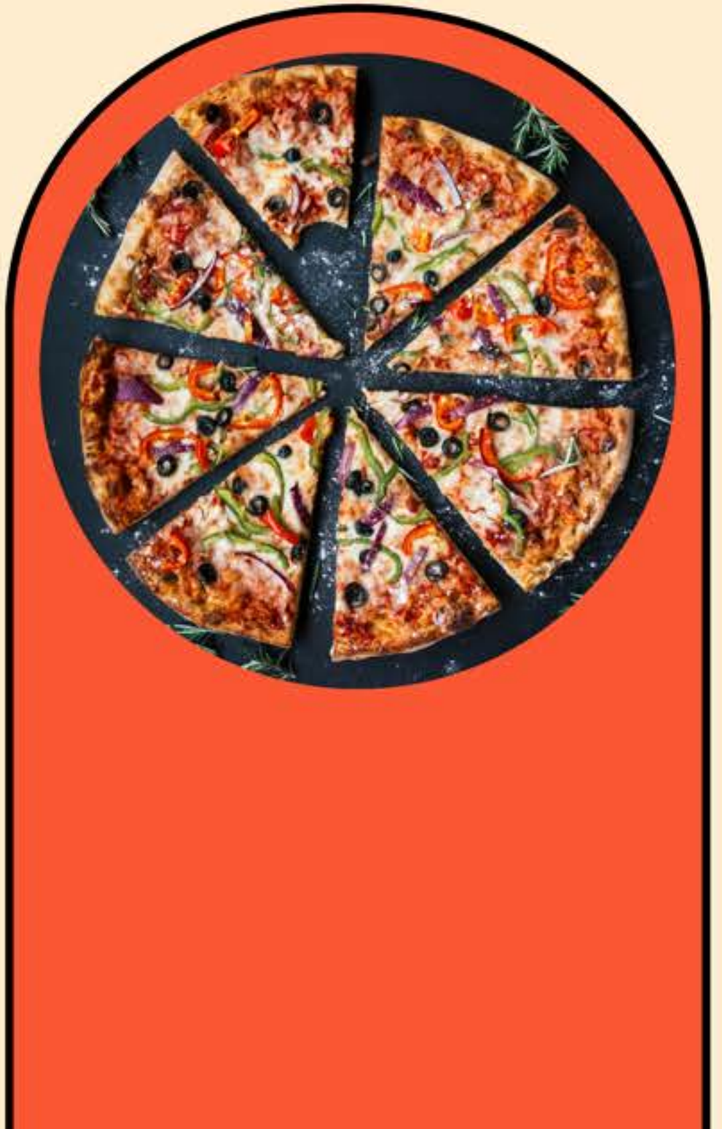
1.Orders placed on '2015-01-01' (SELECT + where)

```
15 •  select order_id from orders where date = '2015-01-01';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_id
1
2
3
4
5
6
7

orders 5 ×



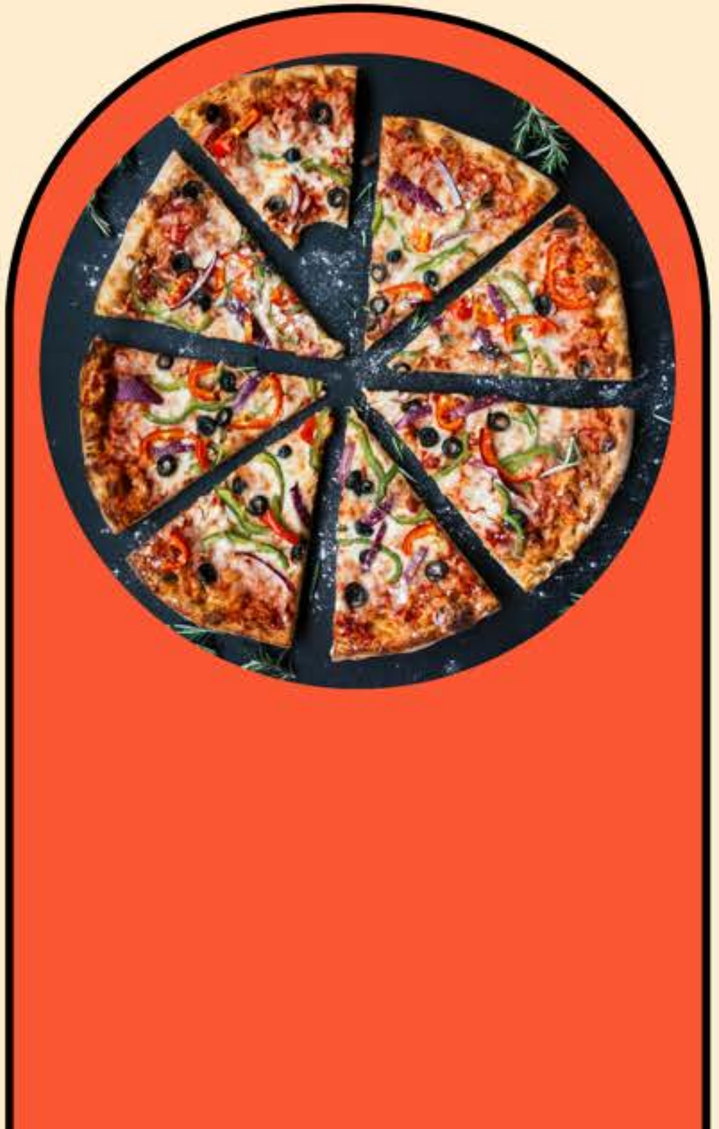
2.List pizzas with price descending.

```
12
13 •  select * from pizzas order by price desc;
14
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_id	pizza_type_id	size	price
the_greek_xxl	the_greek	XXL	35.95
the_greek_xl	the_greek	XL	25.5
brie_carre_s	brie_carre	S	23.65
ital_veggie_l	ital_veggie	L	21
spinach_supr_l	spinach_supr	L	20.75
bbq_ckn_l	bbq_ckn	L	20.75
cali_ckn_l	cali_ckn	L	20.75

pizzas 6



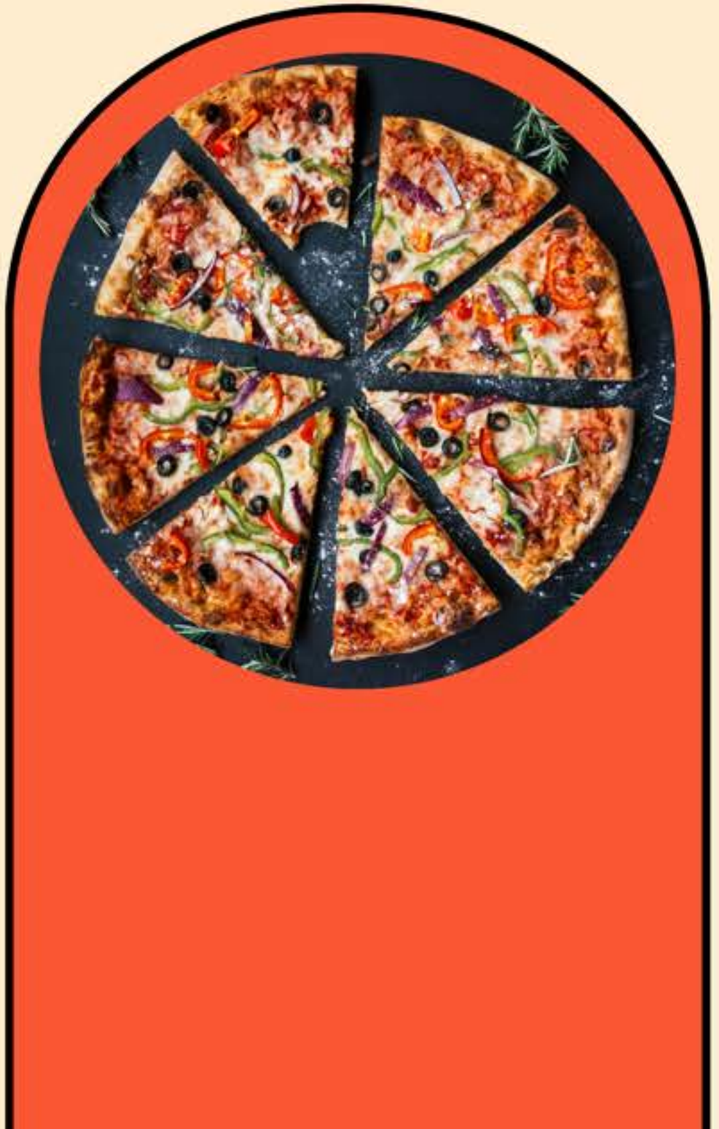
3.Pizzas sold in sizes ‘L or ‘XL’

```
13 •  select  pizza_id, size from pizzas where size in ('L','XL');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_id	size
bbq_ckn_l	L
cali_ckn_l	L
ckn_alfredo_l	L
ckn_pesto_l	L
southw_ckn_l	L
thai_ckn_l	L
big_meat_l	L

pizzas 7 ×



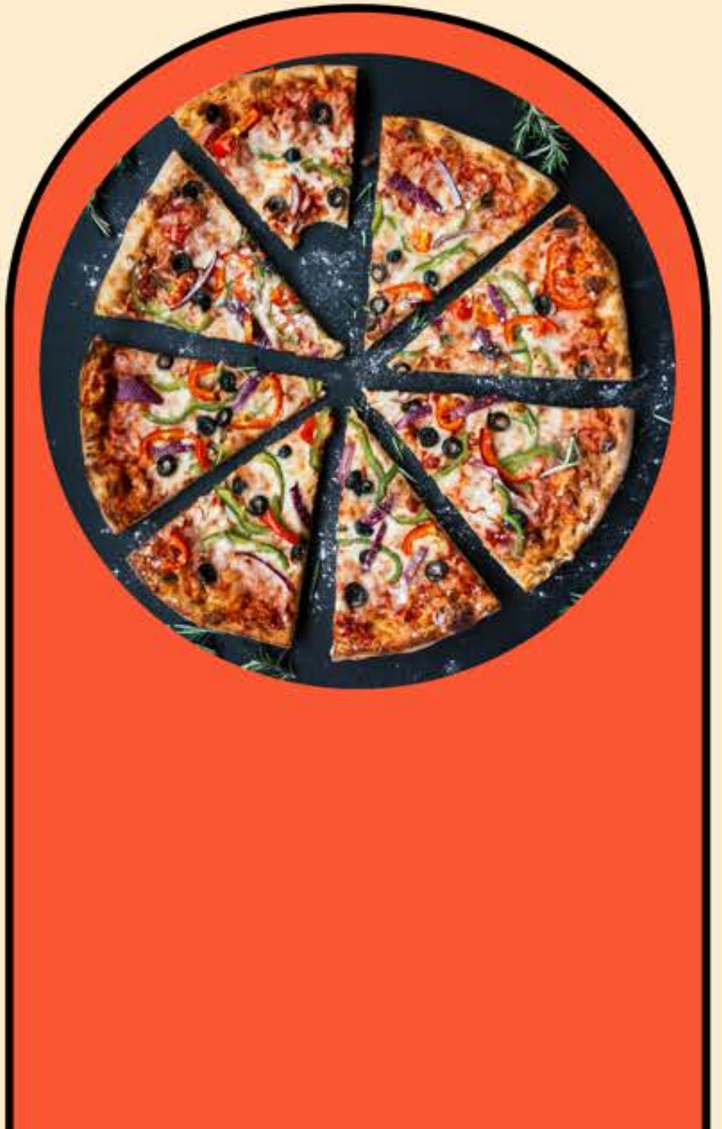
4.Pizzas priced between $15.00 and $17.00.

```
13 •  select pizza_id, price from pizzas where price between 15 and 17;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_id	price
bbq_ckn_m	16.75
cali_ckn_m	16.75
ckn_alfredo_m	16.75
ckn_pesto_m	16.75
southw_ckn_m	16.75
thai_ckn_m	16.75
big_meat_m	16

pizzas 8

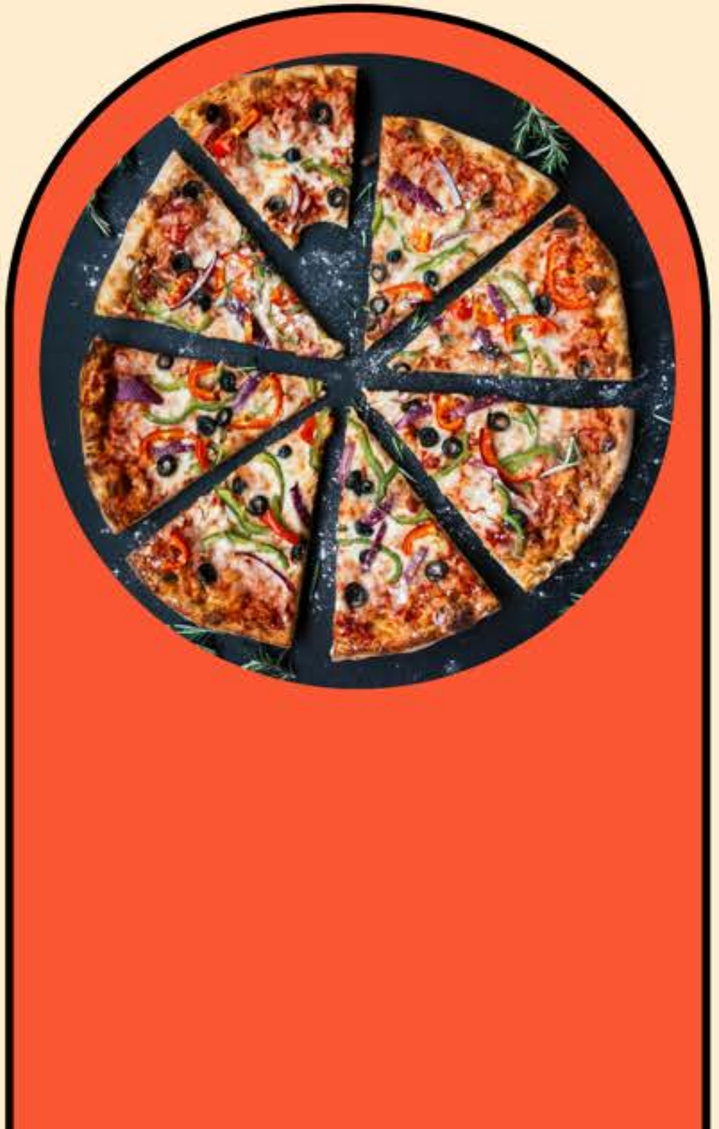


5.Pizzas with "Chicken" in the name.

```
12
13 •  select name from pizza_types where name like '%chicken%';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name
The Barbecue Chicken Pizza
The California Chicken Pizza
The Chicken Alfredo Pizza
The Chicken Pesto Pizza
The Southwest Chicken Pizza
The Thai Chicken Pizza



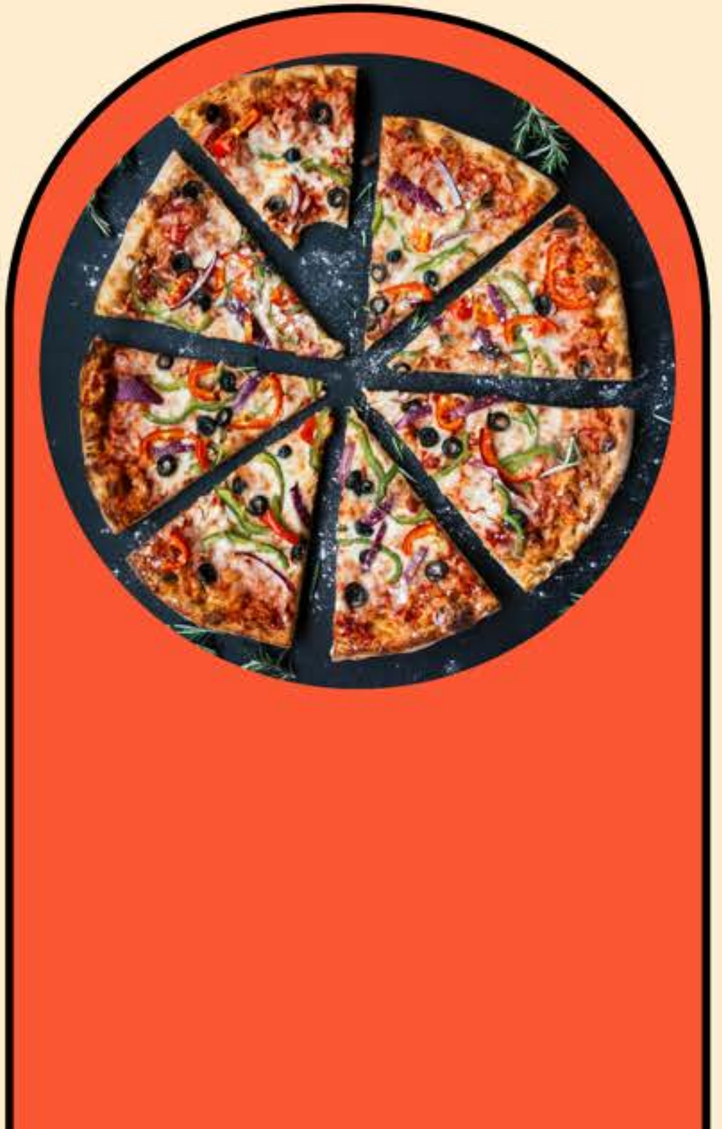
6.Orders on '2015-02-15' or placed after 8 PM.

```
11
12
13 •  select order_id, date, time from orders where date = '2015-02-15' or time > '20.00.00';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

order_id	date	time
65	2015-01-01	21:16:00
66	2015-01-01	21:47:55
67	2015-01-01	22:03:40
68	2015-01-01	22:07:32
69	2015-01-01	22:12:13
128	2015-01-02	21:05:06
129	2015-01-02	21:13:02

orders 10 ×



SALES PERFORMANCE

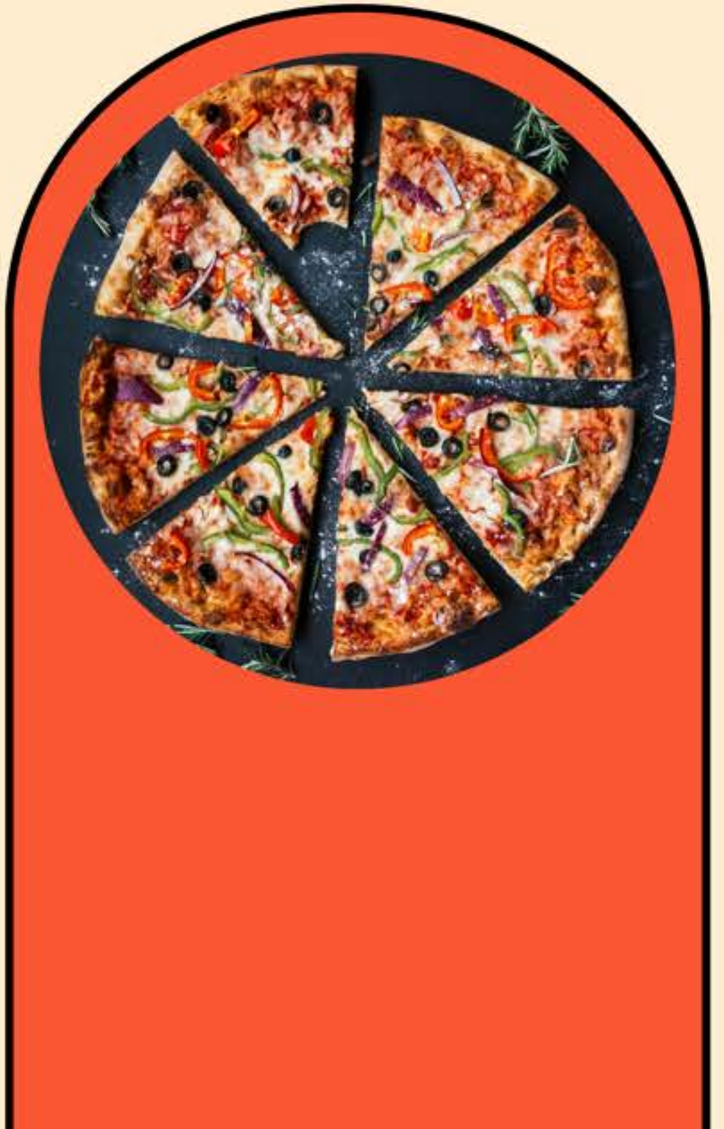
1.Total quantity of pizzas sold(sum)

```
12
13 •  select sum(quantity) from order_details;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	sum(quantity)
▶	49574

Result 11 ×



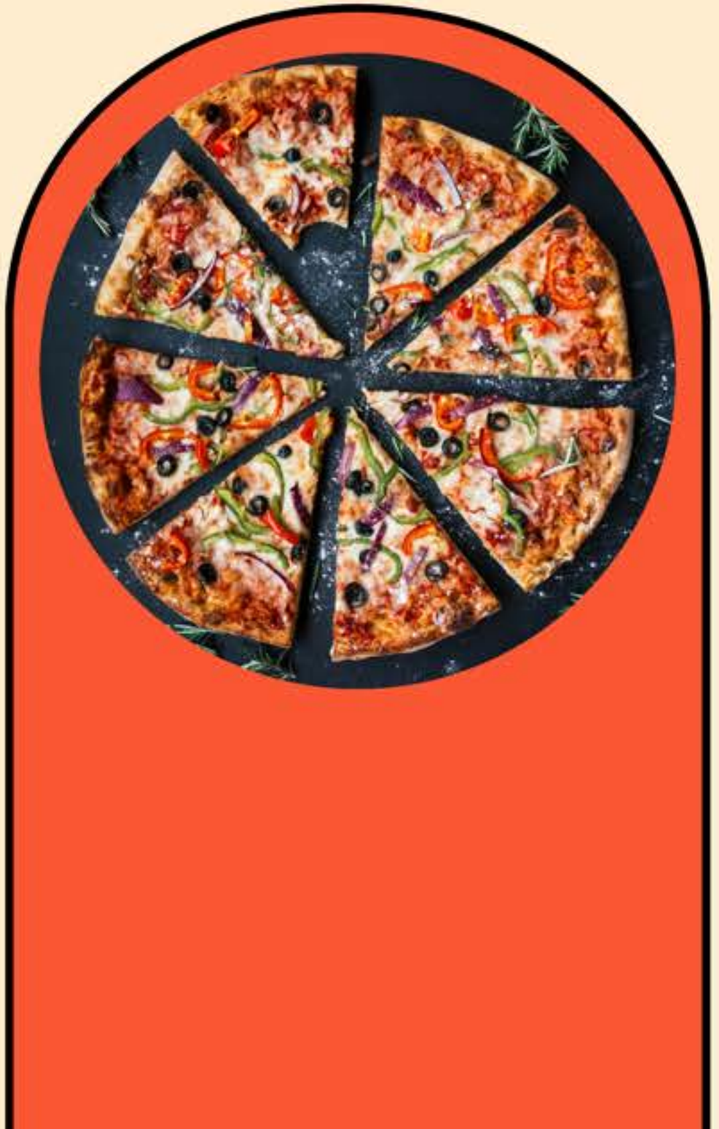
2.Average pizza price (avg)

```
12
13 •  select round(avg(price),2) from pizzas;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

round(avg(price),2)
16.44

Result 12 ×



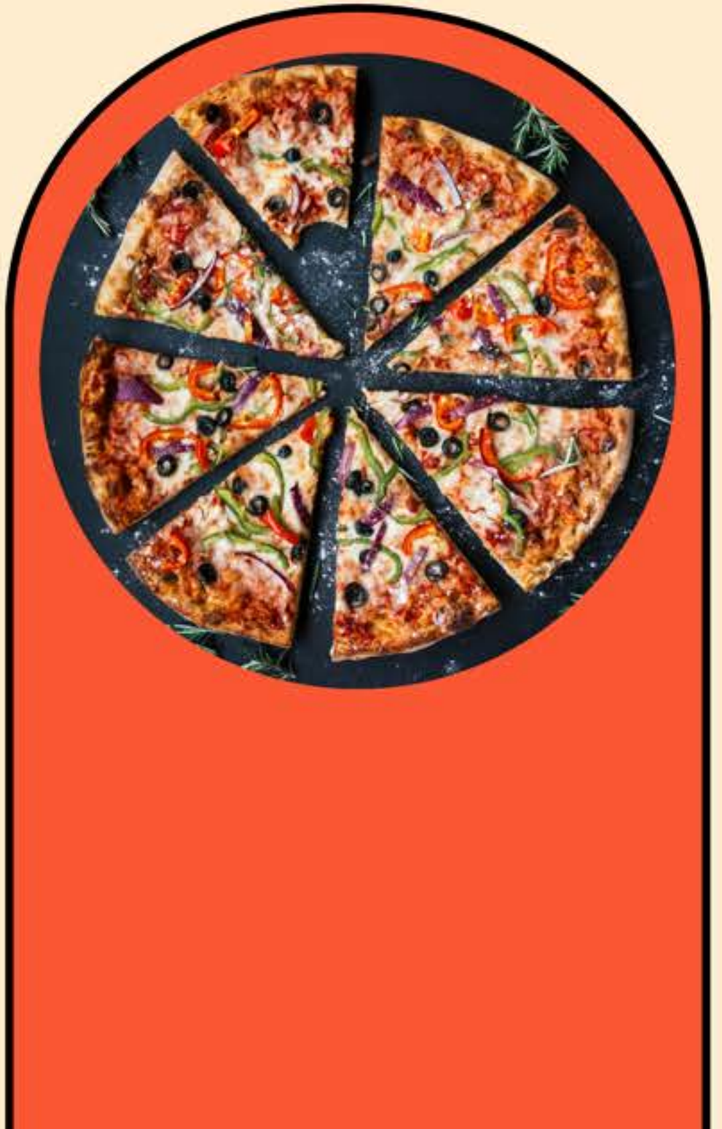
3.Total order value per order (join,sum,group by)

```
12
13 •  select od.order_id, sum(p.price * od.quantity) as total_order_value from order_details od
14    join pizzas p on od.pizza_id = p.pizza_id group by od.order_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

order_id	total_order_value
4529	38.25
4517	12.75
4477	66.25
4397	42.75
4390	33.5
4374	25.5
4300	49.75

Result 13



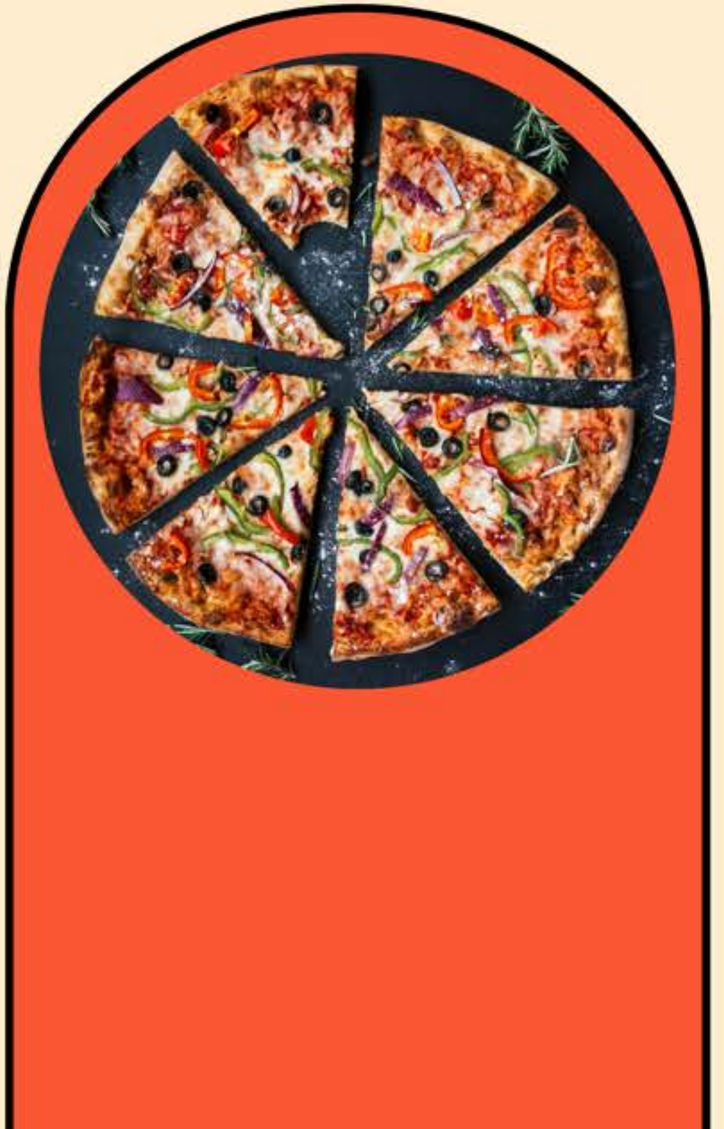
4.Total quantity sold per pizza category(join.group by)

```
11
12
13  select pt.category, sum(od.quantity) as total_quantity from order_details od
14  join pizzas p on od.pizza_id = p.pizza_id
15  join pizza_types pt on p.pizza_type_id = pt.pizza_type_id
16  group by pt.category;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	total_quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

Result 14



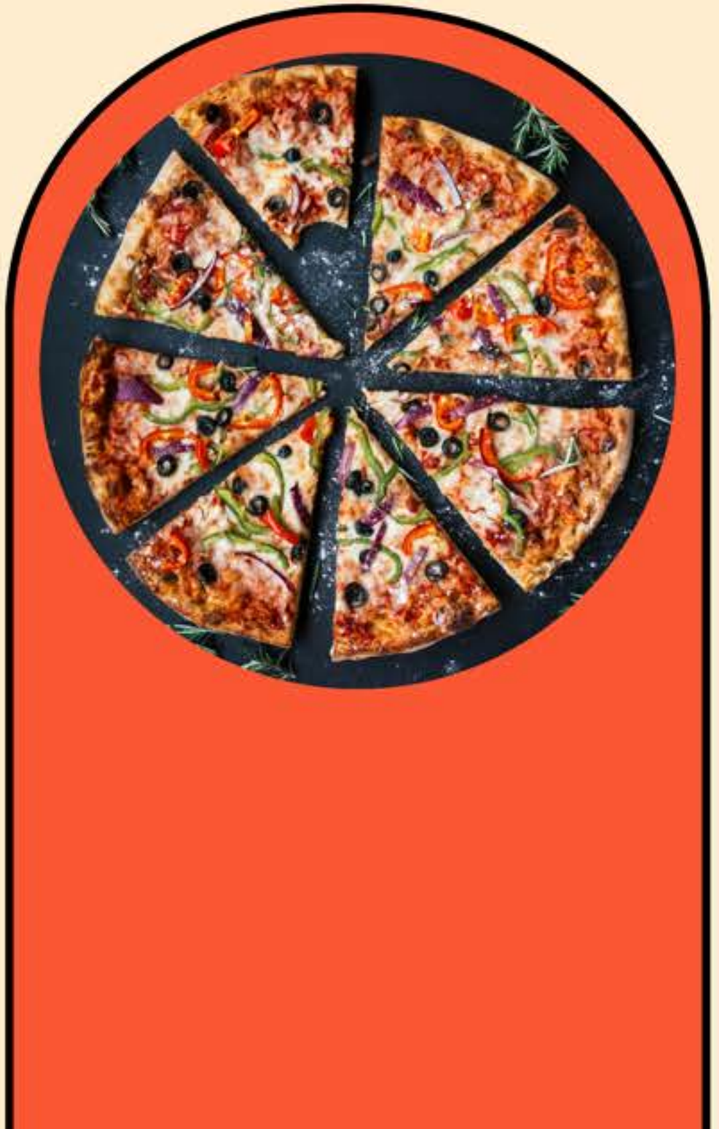
5.Categories with more than 5,000 pizzas sold (having)

```
12
13  select pt.category, SUM(od.quantity) as qty from order_details od
14  join pizzas p on od.pizza_id = p.pizza_id
15  join pizza_types pt on p.pizza_type_id = pt.pizza_type_id
16  group by pt.category having qty > 5000;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	qty
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

Result 15



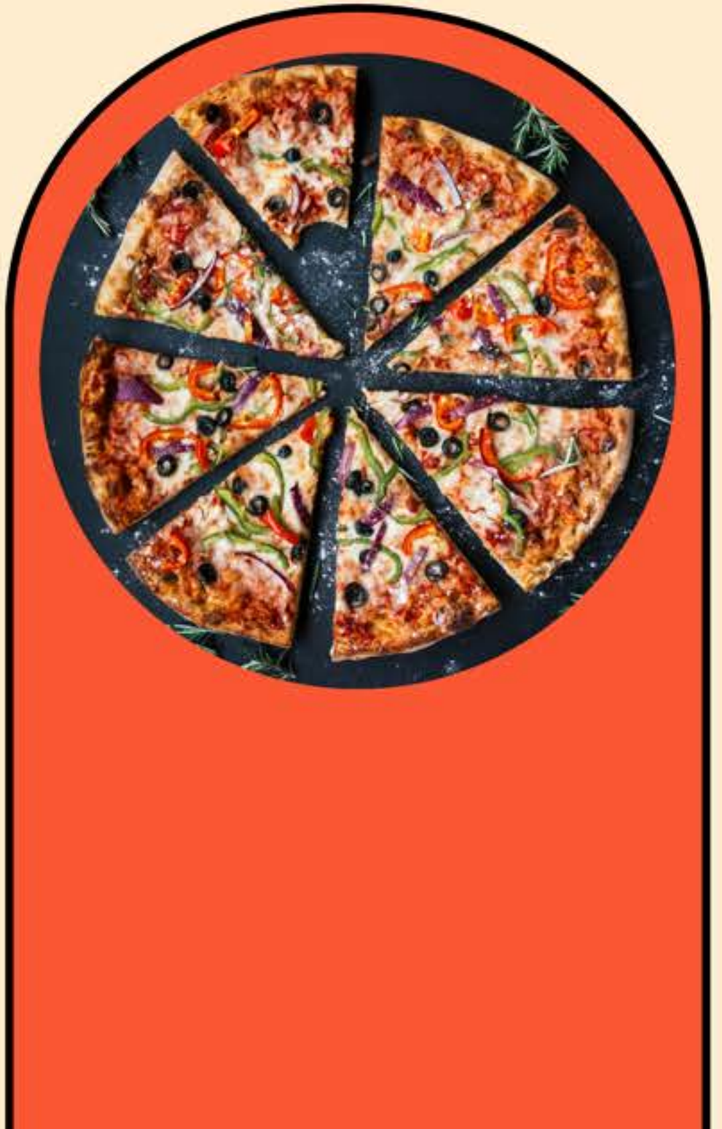
6.Pizzas never ordered(left/right join)

```
12
13 •  select p.pizza_id from pizzas p
14    left join order_details od on p.pizza_id = od.pizza_id where od.pizza_id is null;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_id
big_meat_m
big_meat_l
five_cheese_s
five_cheese_m
four_cheese_s

Result 16



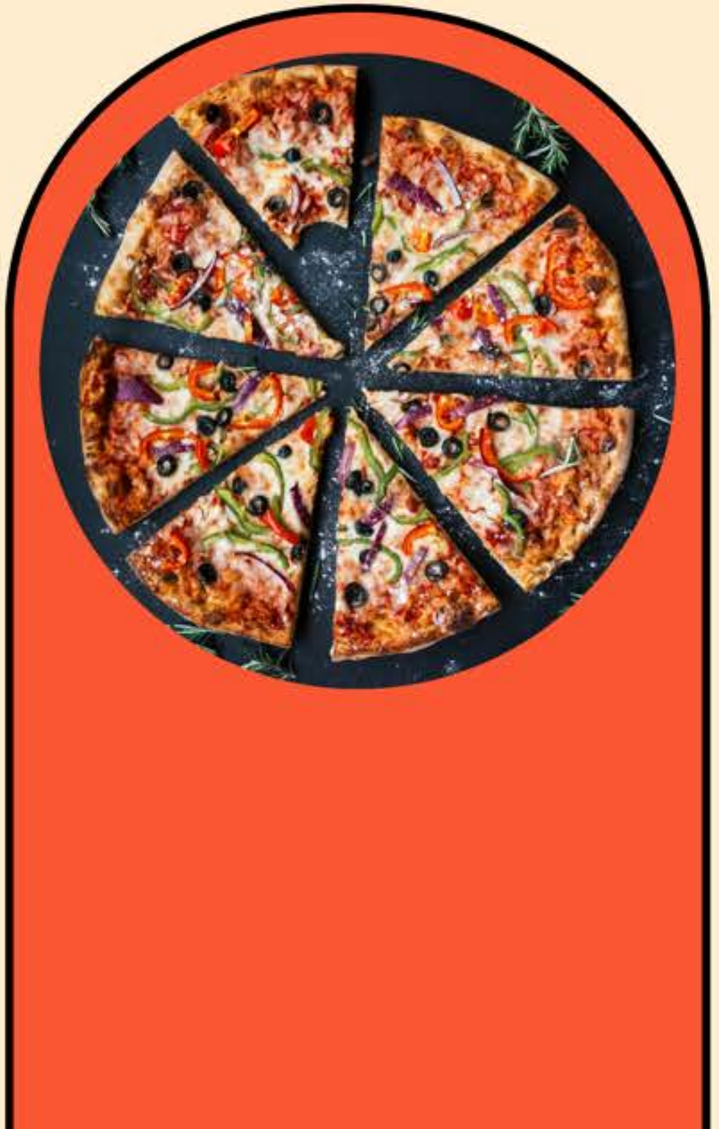
7.Price differences between different sizes of the same pizza(self join)

```
12
13 •  select p1.pizza_type_id, p1.size, p1.price, p2.size, p2.price,
14    (p1.price - p2.price) as price_difference from pizzas p1
15    join pizzas p2 on p1.pizza_type_id = p2.pizza_type_id and p1.size < p2.size
16    order by p1.pizza_type_id, p1.size;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_type_id	size	price	size	price	price_difference
bbq_ckn	L	20.75	S	12.75	8
bbq_ckn	L	20.75	M	16.75	4
bbq_ckn	M	16.75	S	12.75	4
big_meat	L	20.5	S	12	8.5
big_meat	L	20.5	M	16	4.5
big_meat	M	16	S	12	4
calabrese	L	20.25	M	16.25	4

Result 17



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