PIZZA SALES ANALYSIS

Pragati Wadurkar

Introduction

This project aims to analyze the sales data of pizzas sold for a restaurant brand, identifying key numbers, revenue status and essential data pointers.

Database and Table Creation

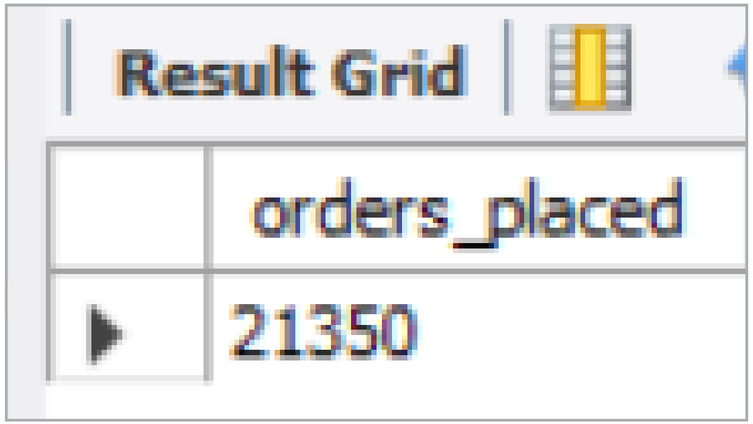
```
create database Pizzabox;

create table orders(
order_id int primary key,
order_date date not null,
order_time time not null);

create table order_details(
order_details_id int primary
key,
order_id int not null,
pizza_id text not null,
quantity int not null);
```

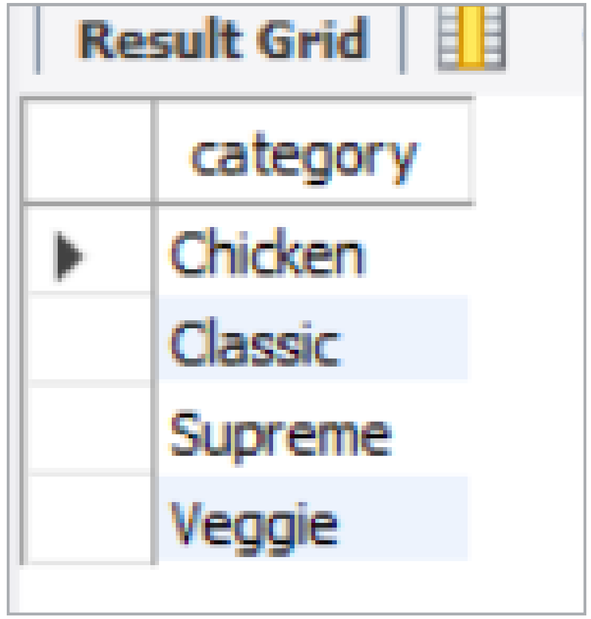
Retrieve the total number of orders placed.

```
select count(order_id) as
orders_placed
from orders;
```



Retrieve the different categories of pizzas.

```
select distinct category from
pizza_types;
```



Find all orders placed between first 10 days.

```
SELECT * FROM orders
WHERE order_date
BETWEEN '2015-01-01' AND '2015-01-10';
```

Result Grid | Filter Rows:

order_id	order_date	order_time
1	2015-01-01	11:38:36
2	2015-01-01	11:57:40
3	2015-01-01	12:12:28
4	2015-01-01	12:16:31
5	2015-01-01	12:21:30
6	2015-01-01	12:29:36
7	2015-01-01	12:50:37
8	2015-01-01	12:51:37
9	2015-01-01	12:52:01
10	2015-01-01	13:00:15
11	2015-01-01	13:02:59
12	2015-01-01	13:04:41
13	2015-01-01	13:11:55
14	2015-01-01	13:14:19
15	2015-01-01	13:33:00
16	2015-01-01	13:34:07
17	2015-01-01	13:53:00
18	2015-01-01	13:57:08

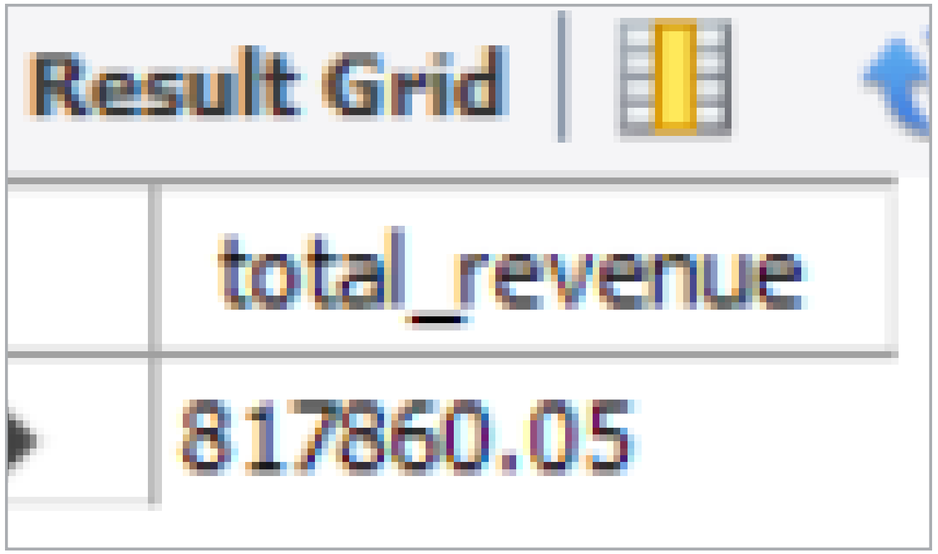
Find all pizza types that start with the word 'Veg'.

```
SELECT * FROM pizza_types
WHERE category LIKE 'Veg%';
```

pizza_type_id	name	category	ingredients
five_cheese	The Five Cheese Pizza	Veggie	Mozzarella
four_cheese	The Four Cheese Pizza	Veggie	Ricotta Che
green_garden	The Green Garden Pizza	Veggie	Spinach, Mu
ital_veggie	The Italian Vegetables Pizza	Veggie	Eggplant, A
mediterraneo	The Mediterranean Pizza	Veggie	Spinach, Ar
mexicana	The Mexicana Pizza	Veggie	Tomatoes,
spin_pesto	The Spinach Pesto Pizza	Veggie	Spinach, Ar
spinach_fet	The Spinach and Feta Pizza	Veggie	Spinach, Mu
veggie_veg	The Vegetables + Vegetables Pizza	Veggie	Mushrooms

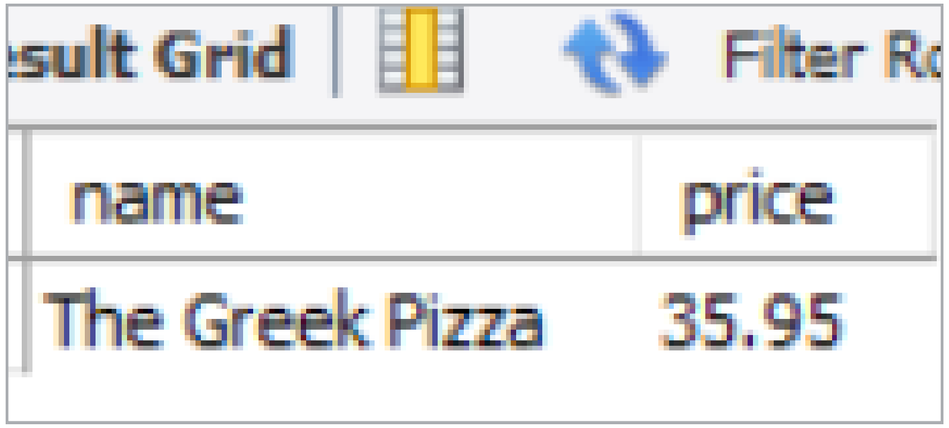
Calculate the total revenue generated from pizza sales.

```
SELECT
ROUND(SUM(d.quantity * p.price), 2)
AS total_revenue
FROM order_details d
JOIN pizzas p
ON d.pizza_id = p.pizza_id;
```



Identify the highest-priced pizza.

```
SELECT pt.name, p.price
FROM pizza_types pt
 JOIN pizzas p
ON pt.pizza_type_id = p.pizza_type_id
ORDER BY p.price DESC
LIMIT 1;
```



Identify the most common pizza size ordered.

```
SELECT  p.size,
COUNT(d.order_details_id) AS count
FROM pizzas p
 JOIN order_details d
ON p.pizza_id = d.pizza_id
GROUP BY p.size
ORDER BY count DESC;
```

Result Grid

size	count
L	18526
M	15385
S	14137
XL	544
XXL	28

List the top 5 most ordered pizza types along with their quantities.

```
select pt.name,sum(d.quantity) as
quantity
from pizza_types pt
join pizzas p
on pt.pizza_type_id=p.pizza_type_id
join order_details d
on d.pizza_id=p.pizza_id
group by pt.name
order by quantity desc
limit 5;
```

sult Grid | Filter Rows:

name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

Determine the distribution of orders by hour of the day.

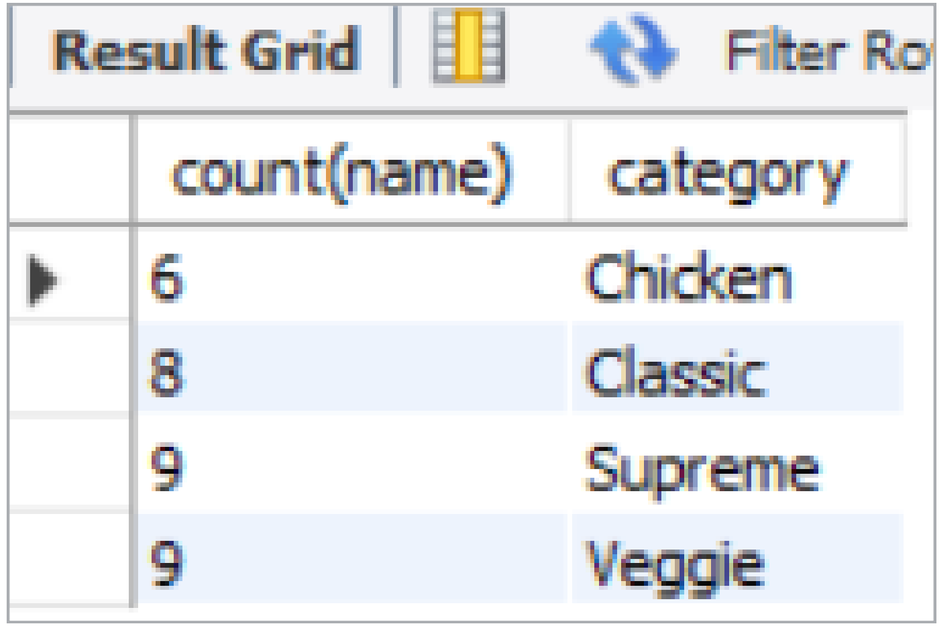
```
select
hour(order_time),count(order_id)
from orders
group by hour(order_time);
```

Result Grid | Filter Rows:

hour(order_time)	count(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8

Find the category-wise distribution of pizzas.

```
select count(name),category
from pizza_types
group by category;
```

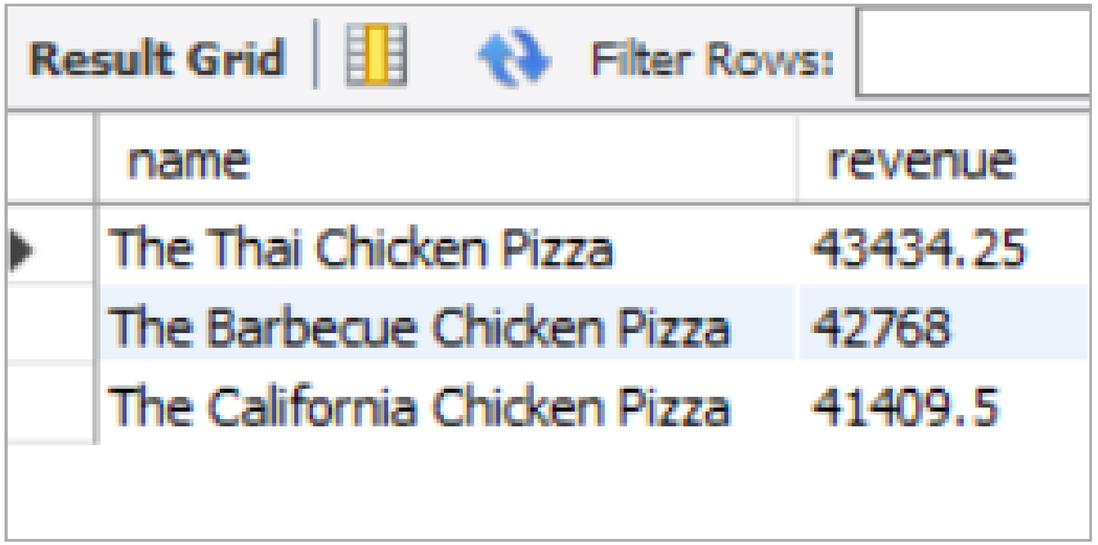


Result Grid | Filter Ro

count(name)	category
6	Chicken
8	Classic
9	Supreme
9	Veggie

Determine the top 3 most ordered pizza types based on revenue.

```
select pt.name,sum(p.price*d.quantity)
as revenue
from pizza_types pt
join pizzas p
on pt.pizza_type_id=p.pizza_type_id
join order_details d
on p.pizza_id=d.pizza_id
group by name
order by revenue desc
limit 3;
```



name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

Determine the names of pizzas whose revenue is more than 30000.

```
select pt.name,sum(p.price*d.quantity)
as revenue
from pizza_types pt
join pizzas p
on pt.pizza_type_id=p.pizza_type_id
join order_details d
on d.pizza_id=p.pizza_id
group by name
having revenue>30000;
```

Result Grid | Filter Rows:

name	revenue
The Hawaiian Pizza	32273.25
The Classic Deluxe Pizza	38180.5
The Italian Supreme Pizza	33476.75
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The Spicy Italian Pizza	34831.25
The Southwest Chicken Pizza	34705.75
The California Chicken Pizza	41409.5
The Pepperoni Pizza	30161.75
The Four Cheese Pizza	32265.70000000065
The Sicilian Pizza	30940.5

Find the customers who have placed more than ten orders.

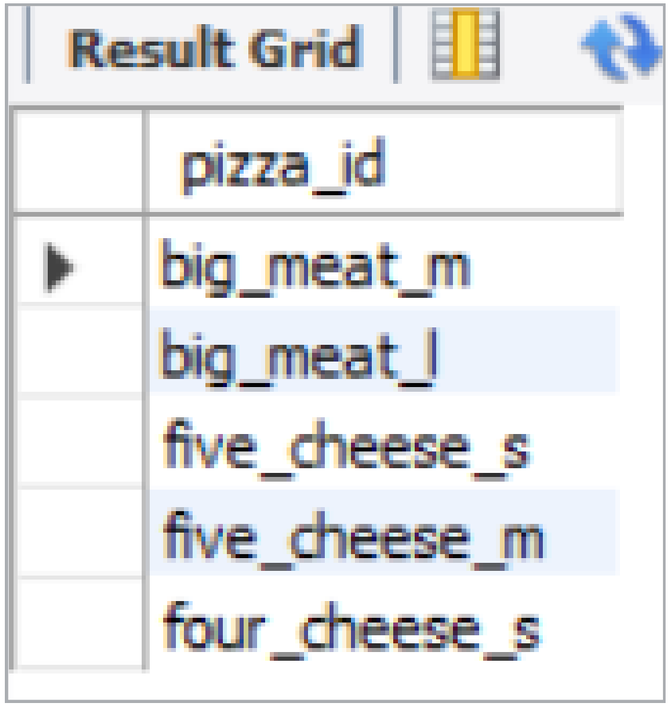
```
select order_id ,count(*) as order_count
from order_details
group by order_id
having order_count>10;
```

Result Grid | Filter Rov

order_id	order_count
144	12
330	14
394	12
440	14
443	14
522	11
740	13
801	12
978	11
1096	12
1150	12
1153	11
1214	11
1265	11
1274	13
1569	13

Find pizza IDs that are in the pizzas table but not in the order_details table.

```
SELECT pizza_id FROM pizzas
EXCEPT
SELECT pizza_id FROM order_details;
```



Thank You