1.Retrieve the total number of orders placed

```sql
select count(*)
as
total_orders
from orders1;
```

100 %

Results | Messages

	total_orders
1	21350

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

```sql
select top 5 pt.name,count(order_id)
as quantity
from pizza_types1 as pt
inner join pizzas1 as p
on pt.pizza_type_id=p.pizza_type_id
inner join order_details1 as od
on od.pizza_id=p.pizza_id
group by pt.name
order by quantity desc;
```

100 %

Results | Messages

	name	quantity
1	The Classic Deluxe Pizza	2416
2	The Barbecue Chicken Pizza	2372
3	The Hawaiian Pizza	2370
4	The Pepperoni Pizza	2369
5	The Thai Chicken Pizza	2315

3.Join the necessary tables to find the total quantity of each pizza category ordered

```sql
select category,count(od.order_id) as quantity
from pizza_types1 as pt
inner join pizzas1 as p
on pt.pizza_type_id=p.pizza_type_id
inner join order_details1 as od
on od.pizza_id=p.pizza_id
inner join orders1 as o
on o.order_id=od.order_id
group by pt.category
order by quantity desc;
```

100 %

Results | Messages

	category	quantity
1	Classic	14579
2	Supreme	11777
3	Veggie	11449
4	Chicken	10815

4.Join relevant tables to find the category-wise distribution of pizzas

```
select category,count(name)
as category_no
from pizza_types1
group by category;
```

100 %

Results | Messages

	category	category_no
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9

5.Group the orders by date and calculate the average number of pizzas ordered per day

```sql
with result as(
select count(o.order_id) as order_each_day from pizza_types1 as pt
inner join pizzas1 as p
on p.pizza_type_id=pt.pizza_type_id
inner join order_details1 as od
on od.pizza_id=p.pizza_id
inner join orders1 as o
on od.order_id=o.order_id
group by o.date)
select avg(order_each_day) as avg_per_day from result;
```

00 %

Results | Messages

	avg_per_day
1	135

6.Calculate the percentage contribution of each pizza type to total revenue analyze the cumulative revenue generated over time

```sql
select pt.category,sum(p.price) as sp,
(sum(price)/(select sum(price) from pizzas1) * 100)
as percentage
from pizza_types1 as pt
inner join pizzas1 as p
on pt.pizza_type_id=p.pizza_type_id
group by pt.category
order by category asc;
```

00 %

Results | Messages

	category	sp	percentage
1	Chicken	301.5	19.1028321473348
2	Classic	424.700000762939	26.9086992621804
3	Supreme	419.64999961853	26.5887346711174
4	Veggie	432.450000762939	27.3997339193673

7.Identify the most common pizza size ordered

```sql
select size,count(od.order_id)as os
from pizzas1 as p
inner join order_details1 as od
on p.pizza_id=od.pizza_id
group by size;
```

100 %

Results | Messages

	size	os
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28

8.Identify the highest-priced pizza

```sql
select top 1 name,max(price) as hpp
from pizzas1 as p
inner join pizza_types1 as pt
on p.pizza_type_id=pt.pizza_type_id
group by name
order  by hpp desc;
```

100 %

Results | Messages

	name	hpp
1	The Greek Pizza	35.9500007629395

9.Calculate the total revenue generated from pizza sales

```sql
select sum(p.price) as total_pizza_sale
from pizzas1 as p
inner join order_details1 as od
on od.pizza_id=p.pizza_id;
```

100 %

Results | Messages

	total_pizza_sale
1	801944.700809479

10.Determine the distribution of orders by hour of the day

```sql
select (o1.time) as order_time,
count(o1.time) as order1_count
from orders1 o1
group by time
order by order_time;
```

100 %

Results | Messages

	order_time	order1_count
1	09:52:21.0000000	1
2	10:25:19.0000000	1
3	10:34:34.0000000	1
4	10:43:04.0000000	1
5	10:50:46.0000000	1
6	10:52:26.0000000	1
7	10:54:03.0000000	1
8	10:54:15.0000000	1
9	10:54:55.0000000	1
10	11:02:20.0000000	1
11	11:10:35.0000000	1
12	11:15:07.0000000	1
13	11:15:13.0000000	1
14	11:15:19.0000000	2
15	11:15:34.0000000	1
16	11:15:42.0000000	1
17	11:15:43.0000000	1
18	11:15:48.0000000	3
19	11:15:53.0000000	1
20	11:15:56.0000000	1