```sql
-- Joining all tables

select *
from order_details as a
left join orders as b
on a.order_id=b.order_id;


-- What are the most popular pizza types?
-- 1.Popularity by Order Value
select d.name,sum(a.quantity) as Total_qty,sum(a.quantity)*sum(c.price) as Order_Value
from order_details as a left join orders as b
on a.order_id=b.order_id
left join pizzas as c
on a.pizza_id=c.pizza_id
left join pizza_types as d
on c.pizza_type_id=d.pizza_type_id
group by d.name
order by Order_Value desc
limit 5;


-- 2.Popularity by Quantity
select d.name,sum(a.quantity) as Total_qty,sum(a.quantity)*sum(c.price) as Order_Value
from order_details as a left join orders as b
on a.order_id=b.order_id
left join pizzas as c
on a.pizza_id=c.pizza_id
left join pizza_types as d
on c.pizza_type_id=d.pizza_type_id
group by d.name
order by Total_qty desc
limit 5;
```

```sql
-- 3.What is the average transaction size or number of pizzas per order?

-- merging entire data

create table Pizza_info as

select a.order_id,a.pizza_id,a.quantity,b.date,b.time,c.price,d.name

FROM order_details a

JOIN pizzas c ON a.pizza_id = c.pizza_id

JOIN pizza_types d ON c.pizza_type_id = d.pizza_type_id

JOIN orders b ON a.order_id = b.order_id;


-- 3.1.avg trasaction size

select avg(total_price) as Avg_Trasaction

from (select order_id,sum(quantity*price) as total_price

from Pizza_info

group by order_id) as order_totals;


-- 3.2.avg number of pizza

select avg(total_quantity) as Avg_order_size

from (select order_id,sum(quantity) as total_quantity

from Pizza_info

group by order_id) as order_totals;
```

```sql
-- 4.weekdays vs weekend sales

select case when weekday(date)<5 then 'Weekday' else 'Weekend' end as
day_type,sum(quantity*price) as Sales

from Pizza_info

group by case when weekday(date)<5 then 'Weekday' else 'Weekend' end;
```

```sql
-- 5.number of orders each month

select MonthName(date) as Month_name,sum(quantity) as Total_Qty,round(sum(price),2) as
Total_Amount,quantity*price as Total_Sales

from Pizza_info

group by Monthname(date);
```

```sql
-- 6.avg number of orders per day

select weekday(date) as Days,sum(order_id) as Total_Orders

from Pizza_info

group by weekday(date)

order by weekday(date);
```

```sql
-- 7.avg order size of each Pizza

select name,avg(quantity*price) as avg_order_size

from Pizza_info

group by name;
```

```sql
-- 8.Avg Sales on each Hour

select Hour(time) as Hrs,avg(quantity*price) as Avg_Sales

from Pizza_info

group by Hour(time)

order by Hour(time);
```