

```
create database pizzas.pizzas;

use pizzas;

select * from pizzas;

select * from pizza_types;

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

desc orders;

select * from orders;

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

select * from orders_details;
```

-- (2) retrived the total number of order placed

select \* from orders;

select count(order\_id) as total\_order from orders; -- (21350)

-- (3) calculate the total revenue generated from pizza sales

select \* from pizzas;

select sum(price) as revenue from pizzas; -- (1578)

select round(sum((orders\_details.quantity \* pizzas.price)),0) as total\_sales

-- (total\_sales= 817890)

from orders\_details join pizzas on pizzas.pizza\_id= orders\_details.pizza\_id;

SELECT

(orders\_details.quantity \* pizzas.price) AS total\_sales

FROM

orders\_details

JOIN

pizzas ON pizzas.pizza\_id = orders\_details.pizza\_id;

select \* from pizza\_types;

```
select * from pizzas;
```

```
-- (4) identify the highest-priced pizza
```

```
select max(price) from pizzas;
```

```
select pizza_types.name, pizzas.price from pizzas join pizza_types on  
pizzas.pizza_type_id=pizza_types.pizza_type_id order by price desc limit 1;
```

```
-- --(5) identify the most common pizza ordered
```

```
select size,count(pizza_id) from pizzas group by size; -- (size(s)=32)
```

```
select * from orders_details;
```

```
select * from pizzas;
```

```
SELECT
```

```
    pizzas.size, COUNT(orders_details.order_details_id)
```

```
FROM
```

```
    pizzas
```

```
    JOIN
```

```
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
```

```
GROUP BY pizzas.size order by COUNT(orders_details.order_details_id) desc  
limit 1 ;    -- L=18526
```

-- (6) list the top 5 most order pizzas types along with their quantities

```
select * from pizzas;
```

```
select * from orders_details;
```

```
select * from orders;
```

```
select * from pizza_types;
```

```
SELECT
```

```
    pizza_types.name, SUM(orders_details.quantity) AS totalq
```

```
FROM
```

```
    pizza_types
```

```
    JOIN
```

```
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
```

```
    JOIN
```

```
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
```

```
GROUP BY pizza_types.name
```

```
ORDER BY totalq DESC
```

LIMIT 5;

-- (7) Join the necessary tables to find the total quantity of each pizza category ordered.

select \* from pizzas;

select \* from orders\_details;

select \* from pizza\_types;

SELECT

    pizza\_types.category, SUM(orders\_details.quantity) as quantity

FROM

    pizza\_types

        JOIN

        pizzas ON pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id

        JOIN

        orders\_details ON orders\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.category;

-- (8) Determine the distribution of orders by hour of the day

```
select * from orders_details;
```

```
select * from orders;
```

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

-- (9) join relevant tables to find the category-wise distribution of pizzas

```
select * from pizza_types;
```

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

-- (10) Group the orders by date and calculate the average number of  
pizzas ordered per day

```
select * from pizzas;
```

```
select * from orders_details;
```

```
select * from orders;
```

```
SELECT
```

ROUND(AVG(quantity), 0) as avg\_pizza\_ordered\_perday

FROM

(SELECT

orders.order\_date, SUM(orders\_details.quantity) AS quantity

FROM

orders

JOIN orders\_details ON orders\_details.order\_id = orders.order\_id

GROUP BY order\_date) AS order\_quant;

-- (11) Determine the top 3 most ordered pizza types based on revenue.

select \* from pizzas;

select \* from orders\_details;

select \* from pizza\_types;

SELECT

pizza\_types.name,

sum( (orders\_details.quantity \* pizzas.price) )AS revenue

FROM

pizzas

JOIN

orders\_details ON orders\_details.pizza\_id = pizzas.pizza\_id

JOIN

pizza\_types ON pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id

GROUP BY pizza\_types.name

ORDER BY revenue DESC

LIMIT 3;

-- (12) Calculate the percentage contribution of each pizza type to total revenue.

select pizza\_types.category,

round(sum(orders\_details.quantity \* pizzas.price) / (select  
round(sum(orders\_details.quantity \* pizzas.price),0)

As total\_sales from orders\_details join pizzas on

pizzas.pizza\_id=orders\_details.pizza\_id )\*100,2) as revenue

from pizza\_types join pizzas on

pizzas.pizza\_type\_id=pizza\_types.pizza\_type\_id

join orders\_details on

orders\_details.pizza\_id= pizzas.pizza\_id group by pizza\_types.category;



```
(select round(sum(orders_details.quantity * pizzas.price),0)
```

As total\_sales from orders\_details join pizzas on

```
pizzas.pizza_id=orders_details.pizza_id );
```

```
select pizza_types.category,
```

```
round(sum(orders_details.quantity * pizzas.price) / 817860*100,2) as  
revenue
```

```
from pizza_types join pizzas on
```

```
pizzas.pizza_type_id=pizza_types.pizza_type_id
```

```
join orders_details on
```

```
orders_details.pizza_id= pizzas.pizza_id group by pizza_types.category;
```

-- (13) Analyze the cumulative revenue generated over time.

```
select order_date, sum(revenue) over(order by order_date)as cum_value
```

```
from (select orders.order_date, sum(orders_details.quantity * pizzas.price) as  
revenue from orders_details join pizzas
```

```
on orders_details.pizza_id= pizzas.pizza_id join orders on
```

```
orders.order_id=orders_details.order_id group by
```

```
orders.order_date) as sales ;
```

-- (14) Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select name, category, revenue, rank() over(partition by category order by
revenue) as rn
```

```
from
```

```
(select pizza_types.name, pizza_types.category,
```

```
sum((orders_details.quantity) * pizzas.price) as revenue from pizzas join
orders_details on
```

```
orders_details.pizza_id= pizzas.pizza_id join pizza_types on
```

```
pizza_types.pizza_type_id= pizzas.pizza_type_id group by pizza_types.name,
pizza_types.category) as a ;
```

```
select name, revenue from
```

```
(select name, category, revenue, rank() over(partition by category order by
revenue) as rn
```

```
from
```

```
(select pizza_types.name, pizza_types.category,
```

sum((orders\_details.quantity) \* pizzas.price) as revenue from pizzas join  
orders\_details on

orders\_details.pizza\_id= pizzas.pizza\_id join pizza\_types on

pizza\_types.pizza\_type\_id= pizzas.pizza\_type\_id group by pizza\_types.name,  
pizza\_types.category) as a) as b where rn <=3;