

```
create database pizzahut;
```

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

```
create table order_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) );
```

```
-- Retrieve the total number of orders placed.
```

```
USE pizzahut;
```

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

```
-- Calculate the total revenue generated from pizza sales.
```

```
USE pizzahut;
```

```
select round(SUM(order_details.quantity * pizzas.price),2) as total_sales  
from order_details join pizzas  
on pizzas.pizza_id=order_details.pizza_id
```

```
-- Identify the highest-priced pizza.
```

```
USE pizzahut;
```

```
select pizza_types.name, pizzas.price  
from pizza_types join pizzas
```

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

```
order by pizzas.price desc limit 1;
```

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

```
-- Identify the most common pizza size ordered.
```

```
USE pizzahut;
```

```
select quantity, count(order_details_id)
```

```
from order_details group by quantity;
```

```
select pizzas.size , count(order_details.order_details_id)
```

```
from pizzas join order_details
```

```
on pizzas.pizza_id=order_details.pizza_id
```

```
group by pizzas.size;
```

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

```
USE pizzahut;
```

```
select pizza_types.name, sum(order_details.quantity) as quantity
```

```
from pizza_types join pizzas
```

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

```
join order_details on order_details.pizza_id = pizzas.pizza_id
```

```
group by pizza_types.name
```

```
order by quantity desc limit 5;
```

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

```
USE pizzahut;
```

```
select pizza_types.category, sum(order_details.quantity) as quantity
```

```
from pizza_types join pizzas
on pizzas.pizza_type_id=pizza_types.pizza_type_id
join order_details on pizzas.pizza_id=order_details.pizza_id
group by pizza_types.category order by quantity desc ;
```

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

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

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

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

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

```
select avg(quantity) from
(select orders.date, sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id=order_details.order_id
group by orders.date) as quantity;
```

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

```
select pizza_types.name, sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
```

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

```
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details on order_details.pizza_id= pizzas.pizza_id
group by pizza_types.name order by revenue desc limit 3;
```