

SQL PROJECT

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
select count(*) from orders;
```

	count(*)
▶	21350

**Calculate the total revenue generated
from pizza sales.**

```
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;
```

	total_sales
▶	817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

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

	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
select pizzas.size, count(order_details.order_details_id) as count_order from pizzas
join order_details on order_details.pizza_id= pizzas.pizza_id
group by pizzas.size
order by count_order desc limit 1;
```

	size	count_order
▶	L	18526

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
select pizza_types.name, sum(order_details.quantity) as quant from pizza_types
join pizzas 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 quant desc limit 5;
```

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

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

```
select pizza_types.category, sum(order_details.quantity) as quant from pizza_types
join pizzas 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.category
order by quant desc;
```

category	quant
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
select count(order_id), hour(order_time) as hour_of_day from orders
group by hour_of_day
order by count(order_id) desc;
```

count(order_id)	hour_of_day
2520	12
2455	13
2399	18
2336	17
2009	19
1920	16
1642	20
1472	14
1468	15
1231	11
1198	21
663	22
28	23
8	10
1	9

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

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

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

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
select round(avg(quantity),0) from
(select orders.order_date, sum(order_details.quantity) as quantity from orders
join order_details on order_details.order_id = orders.order_id
group by orders.order_date) as order_quantity;
```

	avg_no_of_pizzas
▶	138

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

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

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

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

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```
select pizza_types.name, round(sum(order_details.quantity*pizzas.price) / (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)*100,2) as revenue

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 revenue desc;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Analyse the cumulative revenue generated over time.

```
select order_date, sum(revenue) over(order by order_date) as cum_revenue
from
(
select orders.order_date, sum(order_details.quantity*pizzas.price)
as revenue from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join orders on orders.order_id = order_details.order_id
group by orders.order_date) as sales;
```

order_date	cum_revenue
2015-01-01	2713.85000000
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select category,name, revenue from

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

(select pizza_types.category, pizza_types.name, sum(order_details.quantity*pizzas.price) as revenue from pizzas
join order_details on order_details.pizza_id = pizzas.pizza_id
join pizza_types on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <=3;
```

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75
Supreme	The Spicy Italian Pizza	34831.25