

SQL_PIZZA_ SALES



```
#retrieve the total number of order placed  
  
select count(order_id) as total_orders from orders;
```

Result Grid	
	total_orders
▶	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;
```

Result Grid	
	total_sales
▶	817860.05

```
-- identify the highest priced pizza.

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;
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

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

SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid		Filter Rows:
	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

```
-- list the top 5 most ordered pizza
-- type along with their quantities.

SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
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 quantity DESC
LIMIT 5;
```

	name	quantity
▶	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 quantity
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 quantity DESC;
```

Result Grid		Filter Rows:
	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

```
-- Determine the distribution of orders by hour of the day.  
  
select hour(order_time) as hour, count(order_id) as order_count from orders  
group by hour(order_time);
```

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

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

Result Grid	
	avg_pizza_order_per_day
▶	138

```
-- 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
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 limit 3;
```

The screenshot shows a database query results grid titled "Result Grid". The grid has two columns: "name" and "revenue". The data is as follows:

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

```
-- calculate the percentage contribution of each
-- pizza type to total revenue

• select pizza_types.category,
  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 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 revenue desc;
```

Result Grid		
	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

```

-- Analyze 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;

```

Result Grid		Filter Rows:
	order_date	cum_revenue
	2015-12-06	767549.45
	2015-12-07	769964.25
	2015-12-08	771820.5
	2015-12-09	774392.05
	2015-12-10	776377.65
	2015-12-11	779011.65
	2015-12-12	780971.8
	2015-12-13	783216.9500000001
	2015-12-14	785389.55
	2015-12-15	787777
	2015-12-16	790011.8
	2015-12-17	791892.55
	2015-12-18	794778.8500000001
	2015-12-19	797083.05
	2015-12-20	799187.9500000001
	2015-12-21	801288.65
	2015-12-22	803171.6
	2015-12-23	805415.9
	2015-12-24	807553.75
	2015-12-26	809196.8
	2015-12-27	810615.8
	2015-12-28	812253
	2015-12-29	813606.25
	2015-12-30	814944.05
	2015-12-31	817860.05

```
-- determine the top 3 most ordered pizza types
-- based on revenue for each pizza category
select 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 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, pizza_types.name) as a) as b
where rn <= 3;
```

Result Grid | Filter Rows:

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Hawaiian Pizza	32273.25
	The Pepperoni Pizza	30161.75
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5