

Pizza Report

Using SQL

HOT & SPICY


PIZZA

DELICIOUS RECIPE



Retrieve the total number of order placed.

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

Result Grid 	
	total_order
▶	21350

Calculate the total revenue generated from pizza sales.

```
SELECT  
    ROUND(SUM(orders_detail.quantity * pizzas.price),  
          2) AS total_sales  
FROM  
    orders_detail  
    JOIN  
    pizzas ON pizzas.pizza_id = orders_detail.pizza_id ;
```

Result Grid	
	total_sales
▶	817860.05



Identify the highest-price 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 sized ordered.

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

Result Grid   Filter Row		
	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(orders_detail.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_detail ON orders_detail.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	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 table to find the.
Total quantity of each pizza category order

```
SELECT
    pizza_types.category,
    SUM(orders_detail.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_detail ON orders_detail.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

Result Grid			Filter R
	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);
```

Result Grid			Filter Rows:
	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 table to find the.
Category-wise distribution of pizzas.

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

Result Grid   Filter Rows		
	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Group the orders by date and calculate the average alter.
Number of pizza ordered per day.

```
SELECT
    ROUND(AVG(quantity), 0)
FROM
    (SELECT
        orders.order_date, SUM(orders_detail.quantity) AS quantity
    FROM
        orders
    JOIN orders_detail ON orders.order_id = orders_detail.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		Filter Rows:
	round(avg(quantity),0)	
▶	138	



Determine the top 3 most ordered.
Pizza type based on revenue.

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

Result Grid			Filter Rows:
	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(orders_detail.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_detail.quantity * pizzas.price),
            2) AS total_sales
    FROM
        orders_detail
        JOIN
            pizzas ON pizzas.pizza_id = orders_detail.pizza_id) * 100,2) AS revenue
FROM
    pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
        orders_detail ON orders_detail.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Result Grid |   Filter Rows:

	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(orders_detail.quantity * pizzas.price) as revenue  
from orders_detail join pizzas  
on orders_detail.pizza_id=pizzas.pizza_id  
join orders  
on orders.order_id = orders_detail.order_id  
group by orders.order_date) as sales limit 5 ;
```

Result Grid			Filter Rows:
	order_date	cum_revenue	
▶	2015-01-01	2713.8500000000004	
	2015-01-02	5445.75	
	2015-01-03	8108.15	
	2015-01-04	9863.6	
	2015-01-05	11929.55	

Determine the top 3 most ordered pizza type.
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((orders_detail.quantity) * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_detail
on orders_detail.pizza_id = pizzas.pizza_id
group by pizza_types.category,pizza_types.name) as a )as b
where rn <= 3;
```

Result Grid			Filter Rows:	Exp
	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		