



Borcelle



Special Delicious

PIZZA RECIPE

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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;
```

	name	price
▶	The Greek Pizza	35.95



Identify the most common pizza size ordered.

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

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



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

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

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



LIST THE TOP FIVE MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```
SELECT
    pizza_types.name, SUM(order_detail.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_detail ON order_detail.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



determine the distribution of orders by hour of the day

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

	hour	count_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468



Join relevant tables to find the category-wise distribution of pizza

```
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_detail.quantity) AS quantity  
    FROM  
        orders  
    JOIN order_detail ON orders.order_id = order_detail.order_id  
    GROUP BY orders.order_date) AS order_quantity;
```

	ROUND(AVG(quantity), 0)
▶	138



determine the top 3 most ordered pizza types based on revenue

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

	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 in revenue

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

	category	revenue
▶	Classic	26.90596025566967
	Supreme	25.45631126009862
	Chicken	23.955137556847287
	Veggie	23.682590927384577



analyse the cumulative generated revenue

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

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

	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

