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-- RETRIEVE THE TOTAL NUMBER OF ORDERS 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_details.quantity * pizzas.price),  
      2) AS total_sales
```

FROM

```
orders_details
```

JOIN

```
pizzas ON pizzas.pizza_id = orders_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;
```



	name	price
▶	The Greek Pizza	35.95



-- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

SELECT

```
pizzas.size,  
COUNT(orders_details.order_detail_id) AS order_count
```

FROM

```
pizzas
```

JOIN

```
orders_details ON pizzas.pizza_id = orders_details.pizza_id
```

GROUP BY pizzas.size

ORDER BY order_count DESC;

Result Grid | Filter

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

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

```
SELECT pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM pizza_types
    JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN orders_details ON orders_details.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 TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

SELECT

```
    pizza_types.category,  
    SUM(orders_details.quantity) AS quantity
```

FROM

```
    pizza_types
```

```
        JOIN
```

```
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

```
        JOIN
```

```
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
```

```
GROUP BY pizza_types.category
```

```
ORDER BY quantity DESC;
```

Result Grid

	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

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009



#JOIN RELEVANT TABLES 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 NUMBER OF PIZZAS ORDERED PER DAY.

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

Result Grid | Filter Rows:

	avg_pizza_ordered_per_day
▶	138

138

#DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT pizza_types.name,  
       SUM(orders_details.quantity * pizzas.price) AS revenue  
FROM pizza_types  
      JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
      JOIN orders_details ON orders_details.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

#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_details.quantity * pizzas.price) as revenue  
      from orders_details join pizzas  
        on orders_details.pizza_id = pizzas.pizza_id  
     join orders  
        on orders.order_id = orders_details.order_id  
   group by orders.order_date) as sales;
```

Result Grid		
	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
	2015-01-06	14358.5
	2015-01-07	16560.7

#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((orders_details.quantity) * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.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
	The Pepperoni Pizza	30161.75



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

SELECT

```
    pizza_types.category,  
    ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT  
        ROUND(SUM(orders_details.quantity * pizzas.price), 2) AS total_sales  
    FROM  
        orders_details  
    JOIN  
        pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,2) AS revenue  
From pizza_types join pizzas  
on pizzas.pizza_type_id = pizza_types.pizza_type_id  
join orders_details  
on orders_details.pizza_id = pizzas.pizza_id  
group by pizza_types.category order by revenue desc limit 3 ;
```

Result Grid | Filter Re

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96