



Dayanand solanke
PRESENTS

SQL
PROJECT

PIZZA

SALES ANALYSIS

WATCH NEXT





1) RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
• SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```



	total_orders
▶	21350

2) 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


3) IDENTIFY THE HIGHEST-PIZZA PRICE.

```
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 Rule
	name	price	
	The Greek Pizza	35.95	

4) 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;
```



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


5) LIST THE TOP 5 MOST ORDERED PIZZA TYPES 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;
```

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

6) 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;
```



	category	quantity
	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

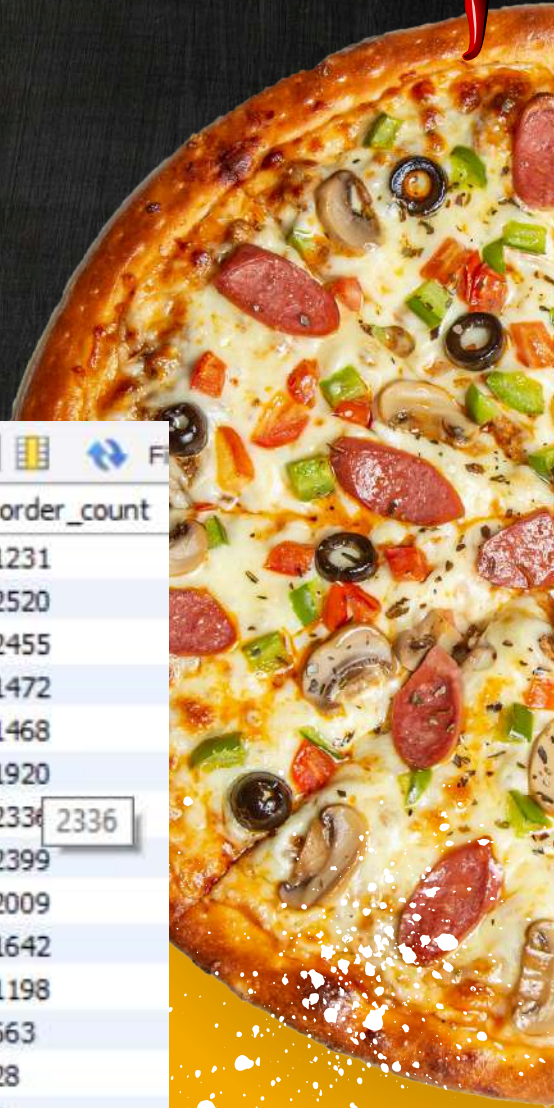


7) DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY .








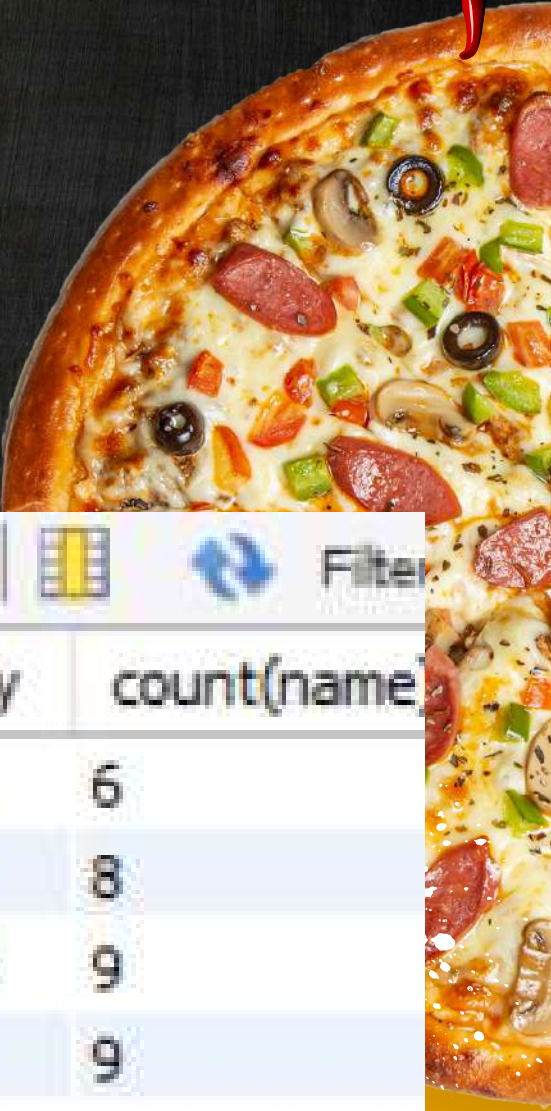
```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

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



8) 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

9) GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBERS OF PIZZAS ORDERED PER DAY.

```
SELECT
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_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		Filter Rows!
	avg_pizza_ordered_per_day	
▶	138	

10) 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;
```

Result Grid



Filter Rows:

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

11) 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 ;
```



	category	revenue
	Veggie	23.68
	Chicken	23.96
	Supreme	25.46
	Classic	26.91

12) 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	
▶	2015-01-01	2713.85000000000004	
	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	
	2015-01-10	23990.3500000000002	
	2015-01-11	25862.65	
	2015-01-12	27781.7	

13) 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((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	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	