

 VEGGIE PIZZA

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PIZZA SALES SQL PROJECT

SOLVING REAL-WORLD BUSINESS
QUESTIONS USING SQL

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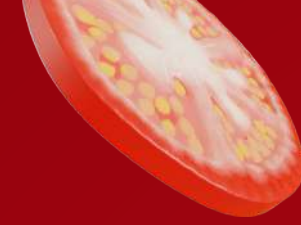
 VEGGIE PIZZA

DATASET: PIZZA SALES

(ORDERS,
PIZZAS,
PIZZA_TYPES,
ORDER_DETAILS)

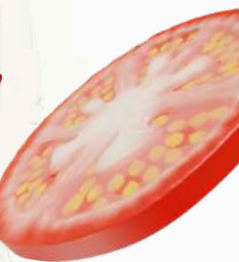
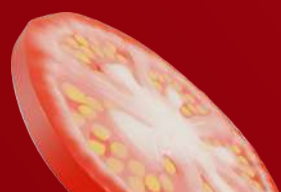
TOOLS USED: MYSQL

GOAL: DATA ANALYSIS USING SQL



BASIC QUESTIONS

NO.	QUESTION
1	TOTAL NUMBER OF ORDERS PLACED
2	TOTAL REVENUE GENERATED
3	HIGHEST PRICED PIZZA
4	MOST COMMON PIZZA SIZE
5	TOP 5 PIZZAS BY QUANTITY



INTERMEDIATE QUESTIONS

NO.	QUESTION
6	QUANTITY OF EACH CATEGORY
7	ORDER BY HOUR
8	CATEGORY-WISE PIZZA COUNT
9	AVG. PIZZAS PER DAY
10	TOP 3 PIZZAS BY REVENUE
11	% REVENUE BY PIZZA TYPE
12	CUMULATIVE REVENUE OVER TIME
13	TOP 3 PIZZAS BY REVENUE IN EACH CATEGORY



TOTAL NUMBER OF ORDERS PLACED.

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

	total_orders
▶	21350

TOTAL REVENUE GENERATED.

```
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

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

MOST COMMON PIZZA SIZE

```
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

TOP 5 PIZZAS BY QUANTITY

```
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

QUANTITY OF EACH CATEGORY

```
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



ORDER BY HOUR

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

	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

CATEGORY-WISE PIZZA COUNT

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

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



AVG. PIZZAS 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_quatity;
```

	avg_pizza_ordered_per_day
▶	138

TOP 3 PIZZAS BY REVENUE


```
select 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.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



% REVENUE BY PIZZA TYPE


```
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;
```




	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

CUMULATIVE REVENUE 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;
```




	order_date	cum_revenue
▶	2015-01-01	2713.850000000000004
	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



TOP 3 PIZZAS BY REVENUE IN EACH 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;
```



	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

- **Joins:** merged data from multiple tables like orders, pizzas, customers using join to get a comprehensive report
- **Aggregates (sum, count):** sum() used to calculate total revenue, count() used to count total orders and item sales
- **Group by & Order by:** group by used for category-wise and date-wise analysis, order by applied to rank top-selling pizzas or peak revenue dates
- **Limit:** retrieved top 5 / top 10 results (e.g., best-selling pizzas, customers)
- **Time functions:** extracted month, day using extract() or date_format(), helped in identifying high-performing days/months
- **Subqueries:** used for filtering data before aggregation, enabled comparison like “above average revenue days”
- **Window functions:** applied rank(), row_number(), sum() over(), helped in calculating cumulative metrics and rankings

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THANK YOU

