

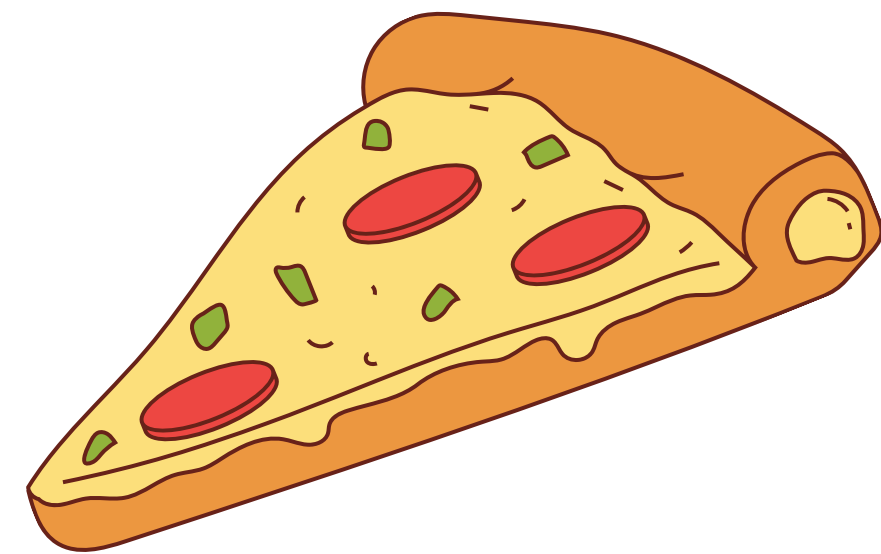
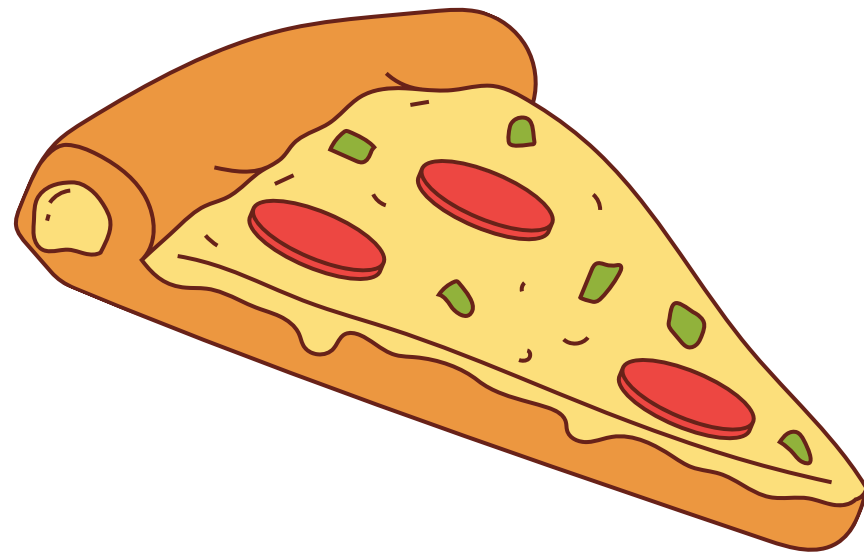
SQL PROJECT ON PIZZA SALES

BY

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here I have utilized sql queries to
solve question on pizza sales



**We have used 4 tables and used database
pizzahut**

tables used are:- pizza, pizza_types, orders, order_details

	pizza_id	pizza_type_id	size	price
▶	bbq_ckn_s	bbq_ckn	S	12.75
	bbq_ckn_m	bbq_ckn	M	16.75
	bbq_ckn_l	bbq_ckn	L	20.75
	cali_ckn_s	cali_ckn	S	12.75
	cali_ckn_m	cali_ckn	M	16.75
	cali_ckn_l	cali_ckn	L	20.75
	ckn_alfredo_s	ckn_alfredo	S	12.75

result Grid Filter Rows: Export: Wrap Cell Content:			
pizza_type_id	name	category	ingredients
bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppe...
cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms...
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, ...
thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...

order_id	order_date	order_time
1	2015-01-01	11:38:36
2	2015-01-01	11:57:40
3	2015-01-01	12:12:28
4	2015-01-01	12:16:31
5	2015-01-01	12:21:30
6	2015-01-01	12:29:36
7	2015-01-01	12:50:37

order_details_id	order_id	pizza_id	quantity
1	1	hawaiian_m	1
2	2	classic_dlx_m	1
3	2	five_cheese_l	1
4	2	ital_supr_l	1
5	2	mexicana_m	1
6	2	thai_ckn_l	1

Database:-

```
1 • create database pizzahut;  
2 • use pizzahut;  
3 • create table orders(  
4     order_id int not null,  
5     order_date date not null,  
6     order_time time not null,  
7     primary key (order_id));  
8  
9 • create table order_details(  
10    order_details_id int not null,  
11    order_id int not null,  
12    pizza_id text not null,  
13    quantity int not null,  
14    primary key (order_details_id));  
15
```

-- Retrieve the total number of orders placed.

```
select * from orders;
```

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

Result Grid	
	total_orders
▶	21350

-- Calculate the total revenue generated from
pizza sales.

SELECT

ROUND(SUM(order_details.quantity * pizzas.price),2)
AS total_revenue

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id;

Result Grid	
	total_revenue
▶	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;
```

	name	price
▶	The Greek Pizza	35.95
	The Greek Pizza	25.5
	The Brie Carre Pizza	23.65
	The Italian Vegetables Pizza	21
	The Spinach Supreme Pizza	20.75



-- 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



-- List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS pizza_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 pizza_quantity DESC LIMIT 5;
```

Result Grid				 Filter Rows:
	name	pizza_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(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;
```

Result Grid   Filter		
	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);
```

	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

-- 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_pizzas_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
```

	avg_pizzas_ordered_per_day
▶	138

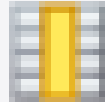

-- Determine the top 3 most ordered pizza types based on revenue.

```
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		

-- 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_revenue  
FROM  
  order_details  
    JOIN  
  pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2)  
  as percent_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.category order by percent_revenue desc;
```

Result Grid   Filter Rows:		
	category	percent_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(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	

-- 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_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.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
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.700000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

THANK YOU

