



PIZZA HUT

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WELCOME TO PIZZA HUT

Pizza Hub is a popular pizza chain known for its wide range of customizable pizzas, catering to both vegetarians and non-vegetarians. With a focus on fresh ingredients and fast delivery, Pizza Hub has built a loyal customer base across various locations. The business operates both online and through physical outlets, providing seamless service for dine-in, takeout, and delivery orders.





PIZZA HUT

MEET OUR CHEF



MUSKAN GUPTA

SQL QUERIES FOR MANAGING PIZZA HUT DATABASE



```
create database pizzahut;  
use pizzahut;
```

USING THE TABLE DATA IMPORT
WIZARD IN SQL WORKBENCH

IMPORTED TABLES :
ORDERS
ORDER_DETAILS
PIZZA_TYPES
PIZZAS



AFTER APPLYING THE SQL QUERIES ON THE PIZZA SALES DATA



YOU WILL BE ABLE TO ANALYZE VARIOUS BUSINESS METRICS FOR PIZZA HUT

Analysis will reveal key insights like the total number of orders placed, total revenue generated, the highest-priced pizza, most commonly ordered pizza size, and the top 5 most popular pizzas by quantity. Intermediate queries will provide deeper insights by joining tables to analyze pizza category distribution, identifying peak ordering hours, calculating the average number of pizzas ordered per day, and determining which categories drive the most revenue. Advanced analysis will help calculate each pizza type's contribution to total revenue, track cumulative revenue over time, and identify the top revenue-generating pizzas across different categories. These insights collectively aid in understanding sales performance, customer preferences, and operational efficiency.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
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_sales  
from order_details  
join pizzas  
on order_details.pizza_id=pizzas.pizza_id;
```

Result Grid	
	total_sales
▶	817860.05

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
limit 1;
```

Result Grid | Filter Rows:

	size	order_count
▶	L	18526

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

```
select pizza_types.name , sum(order_details.quantity)
as order_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 order_quantity desc
limit 5;
```

	name	order_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)
from pizza_types
join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizza_types.category;
```

	category	sum(order_details.quantity)
>	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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

hour(order_time)	order_count
9	1
10	8
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

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(order_quantity),0) as avg_order_perday
from
(select orders.order_date , sum(order_details.quantity)
as order_quantity
from orders
join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as table2;
```

	avg_order_perday
▶	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 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;
```

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(pizzas.price * order_details.quantity) / (select round(sum(order_details.quantity * pizzas.price),2) as total_sales  
from order_details  
join pizzas  
on order_details.pizza_id=pizzas.pizza_id) * 100,2) as revenue_per_category  
from pizza_types  
join pizzas  
on pizzas.pizza_type_id = pizza_types.pizza_type_id  
join order_details  
on pizzas.pizza_id = order_details.pizza_id  
group by pizza_types.category order by revenue_per_category desc;
```

Result Grid		Filter Rows:
	category	revenue_per_category
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date ,  
round(sum(revenue) over(order by order_date),2)  
as cummulative_revenue  
from  
(select orders.order_date ,  
sum(pizzas.price * order_details.quantity) 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_table;
```

	order_date	cummulative_revenue
▶	2015-01-01	2713.85
	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	23990.35
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3
	2015-01-14	32358.7
	2015-01-15	34343.5
	2015-01-16	36937.65
	2015-01-17	39001.75
	2015-01-18	40978.6
	2015-01-19	43365.75
	2015-01-20	45763.65
	2015-01-21	47804.2
	2015-01-22	50300.9

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
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 table5
limit 3;
```

	category	name	revenue	rn
▶	Chicken	The Thai Chicken Pizza	43434.25	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41409.5	3



OUR CONTACT

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THANK YOU!

