



*Delicious*

# PIZZA

Subhrajyoti Adhikary  
Department Of Production Engineering

**ORDER NOW**

A photograph of two pizzas in brown cardboard boxes. The pizzas have a golden-brown crust and are topped with various ingredients, including green bell peppers, red onions, and melted cheese.

-- retrieve the total number of orders placed

```
select count(order_id) as 'total orders' from pizzahut.orders;
```

	<b>total orders</b>
▶	<b>21350</b>

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```
-- calc total revenue generated from pizza sales;  
SELECT  
    round(sum(order_details.quantity * pizzas.price),2)  
FROM  
    pizzahut.pizzas  
    INNER JOIN  
    pizzahut.order_details ON pizzas.pizza_id = order_details.pizza_id;
```

round(sum(order_details.quantity * pizzas.price),2)
---

▶ 817860.05
-------------

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-- identify the highest price pizza

SELECT

pizzahut.pizza\_types.name,

pizzahut.pizza\_types.pizza\_type\_id,

pizzahut.pizzas.price AS 'HIGHEST PRICED PIZZA'

FROM

pizzahut.pizzas

INNER JOIN

pizzahut.pizza\_types ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

ORDER BY pizzahut.pizzas.price DESC

LIMIT 10;

name	pizza_type_id	HIGHEST PRICED PIZZA
The Greek Pizza	the_greek	35.95
The Greek Pizza	the_greek	25.5
The Brie Carre Pizza	brie_carre	23.65
The Italian Vegetables Pizza	ital_veggie	21
The Barbecue Chicken Pizza	bbq_ckn	ital_veggie
The Spinach Supreme Pizza	spinach_supr	20.75
The Italian Supreme Pizza	ital_supr	20.75
The California Chicken Pizza	cali_ckn	20.75
The Thai Chicken Pizza	thai_ckn	20.75
The Spinach Pesto Pizza	spin pesto	20.75

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-- identify the highest price pizza

SELECT

pizzahut.pizza\_types.name,

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pizzahut.pizzas.price AS 'HIGHEST PRICED PIZZA'

FROM

pizzahut.pizzas

INNER JOIN

pizzahut.pizza\_types ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

ORDER BY pizzahut.pizzas.price DESC

LIMIT 10;

name	pizza_type_id	HIGHEST PRICED PIZZA
The Greek Pizza	the_greek	35.95
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The Brie Carre Pizza	brie_carre	23.65
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The Italian Supreme Pizza	ital_supr	20.75
The California Chicken Pizza	cali_ckn	20.75
The Thai Chicken Pizza	thai_ckn	20.75
The Spinach Pesto Pizza	spin pesto	20.75

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-- IDENTIFY THE MOST COMMON ORDERED PIZZA

```
SELECT
    quantity, COUNT(order_details_id)
FROM
    pizzahut.order_details
GROUP BY quantity
ORDER BY order_details.quantity DESC;
```



quantity	COUNT(order_details_id)
4	3
3	21
2	903
1	47693

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-- IDENTIFY THE MOST COMMON ORDERED PIZZA wrt SIZE

SELECT

pizzahut.pizzas.size,

COUNT(pizzahut.order\_details.order\_details\_id)

FROM

pizzahut.pizzas

INNER JOIN

pizzahut.order\_details ON pizzahut.pizzas.pizza\_id = pizzahut.order\_details.pizza\_id

GROUP BY pizzahut.pizzas.size

ORDER BY pizzahut.pizzas.size ASC;

size	COUNT(pizzahut.order_details.order_details_id)
L	18526
M	15385
S	14137
XL	544
XXL	28

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

SELECT

pizza\_types.name, SUM(order\_details.quantity)

FROM

pizzahut.pizza\_types

JOIN

pizzahut.pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

INNER JOIN

pizzahut.order\_details ON pizzahut.order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.name

ORDER BY SUM(order\_details.quantity) DESC

LIMIT 5;



name	SUM(order_details.quantity)
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

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```
-- 06 . total quantity of each pizza category ordered
use pizzahut;
SELECT
    pizzahut.pizza_types.category,
    SUM(order_details.quantity) AS 'quantity'
FROM
    pizzahut.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

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```
-- 07 . determine the distribution of orders by hour of the day
SELECT
    HOUR(orders.order_time) AS 'hour',
    COUNT(orders.order_id) AS 'order count'
FROM
    pizzahut.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
	9	1

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```
-- 08 . join relevant table to find the category wise distribution of pizzas
SELECT
    pizza_types.category, COUNT(pizza_types.name) AS 'NAME'
FROM
    pizzahut.pizza_types
GROUP BY pizza_types.category
ORDER BY NAME ASC;
```

	category	NAME
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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```
-- 09 . 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
        pizzahut.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

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```
-- 09 . 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
        pizzahut.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

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```
-- 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
    pizzahut.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;
```

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

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```
-- 11 . Calculate the percentage contribution of each pizza type to total
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)
    2) AS 'revenue'
FROM
    pizzahut.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 revenue DESC;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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```
-- 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
pizzahut.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	2713.8500000000004
	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
	2015-01-08	19399.05
	2015-01-09	21526.4

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```
-- 13 . 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 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
	The Pepperoni Pizza	30161.75
	The Spicy Italian Pizza	3483 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

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