Liceria & Co.

All About Pizza!

PIZZA

A Delicious Journey

Retrieve the total number of orders placed.

```sql
use pizzahut;
SELECT
    COUNT(order_id) AS 'Total_Orders'
FROM
    orders;
```

Result Grid

	Total_Orders
▶	21350

Calculate the total revenue generated from pizza sales.

```sql
SELECT
    ROUND(SUM(p.price * o.quantity)) AS 'Total_Revenue'
FROM
    pizzas AS p
        LEFT JOIN
    order_details AS o ON p.pizza_id = o.pizza_id
```

	Total_Revenue
▶	817860

Identify the highest-priced pizza.

```sql
SELECT
    p2.price AS 'Highest_Price', p.name
FROM
    pizza_types AS p
        JOIN
    pizzas AS p2 ON p.pizza_type_id = p2.pizza_type_id
ORDER BY Highest_Price DESC
LIMIT 1;
```

Highest_Price	name
35.95	The Greek Pizza

Identify the most common pizza size ordered.

```sql
SELECT
    p.size, COUNT(*) AS 'Max_cnt'
FROM
    pizzas AS p
        JOIN
    order_details AS o ON p.pizza_id = o.pizza_id
GROUP BY p.size
ORDER BY Max_cnt DESC
LIMIT 1;
```

	size	Max_cnt
▶	L	18526

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

```sql
SELECT
    p.name, SUM(o.quantity) AS 'Qty'
FROM
    pizza_types AS p
        JOIN
    pizzas AS p1 ON p.pizza_type_id = p1.pizza_type_id
        JOIN
    order_details AS o ON o.pizza_id = p1.pizza_id
GROUP BY p.name
ORDER BY Qty DESC
LIMIT 5;
```

name	Qty
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.

```sql
SELECT
    p1.category, SUM(o.quantity) AS 'qty'
FROM
    pizza_types AS p1
        JOIN
    pizzas AS p2 ON p1.pizza_type_id = p2.pizza_type_id
        JOIN
    order_details AS o ON p2.pizza_id = o.pizza_id
GROUP BY p1.category
ORDER BY qty DESC;
```

	category	qty
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day.

```sql
SELECT
    HOUR(order_time) AS 'Hr', COUNT(order_id) AS 'cnt'
FROM
    orders
GROUP BY Hr;
```

Hr	cnt
11	1231
12	2520
13	2455
14	1472
15	1468

Join relevant tables to find the category-wise distribution of pizzas.

```sql
SELECT
    category, COUNT(*)
FROM
    pizza_types
GROUP BY category;
```

category	COUNT(*)
Chicken	6
Classic	8
Supreme	9
Veggie	9

Group the orders by date and calculate the average number of pizzas ordered per day.

```sql
WITH daily_order AS (SELECT
        o.order_date, SUM(o1.quantity) AS 'quantity'
    FROM
        orders AS o
    JOIN order_details AS o1 ON o.order_id = o1.order_id
    GROUP BY order_date)

SELECT AVG(quantity) FROM daily_order;
```

	AVG(quantity)
▶	138.4749

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

```sql
SELECT
    p.name, ROUND(SUM(o.quantity * p1.price)) AS 'Revenue'
FROM
    pizza_types AS p
        JOIN
    pizzas AS p1 ON p.pizza_type_id = p1.pizza_type_id
        JOIN
    order_details AS o ON p1.pizza_id = o.pizza_id
GROUP BY p.name
ORDER BY Revenue DESC
LIMIT 3;
```

name	Revenue
The Thai Chicken Pizza	43434
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41410

Calculate the percentage contribution of each pizza type to total revenue.

```sql
SELECT
    p.name,
    ROUND(SUM(p1.price * o.quantity)) * 100 / (SELECT
            ROUND(SUM(p1.price * o.quantity), 2)
        FROM
            pizzas AS p1
                JOIN
            order_details AS o ON p1.pizza_id = o.pizza_id) AS 'per_revenue'
FROM
    pizza_types AS p
        JOIN
    pizzas AS p1 ON p.pizza_type_id = p1.pizza_type_id
        JOIN
    order_details AS o ON p1.pizza_id = o.pizza_id
GROUP BY p.name
```

name	per_revenue
The Hawaiian Pizza	3.946029641623894
The Classic Deluxe Pizza	4.668280349431422
The Five Cheese Pizza	3.187097841495009
The Italian Supreme Pizza	4.093243092140275

Analyze the cumulative revenue generated over time.

```sql
select category,name,revenue,rn 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;
```

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
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2

Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```sql
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	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55

THANK YOU