PIZZA'S

R E S T A U R A N T

Specialist in Italian Food

HELLO EVERYONE

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RESTAURANT

OBJECTIVE ;

1.Retrieve the total number of orders placed.
2.Calculate the total revenue generated from pizza sales.
3.Identify the highest-priced pizza.
4.Identify the most common pizza size ordered.
5List the top 5 most ordered pizza types along with their quantities.

6.Join the necessary tables to find the total quantity of each pizza category ordered.
7.Determine the distribution of orders by hour of the day.
8.Join relevant tables to find the category-wise distribution of pizzas.
9.Group the orders by date and calculate the average number of pizzas ordered per day.
10.Determine the top 3 most ordered pizza types based on revenue.

11.Calculate the percentage contribution of each pizza type to total revenue.
12.Analyze the cumulative revenue generated over time.
13.Determine the top 3 most ordered pizza types based on revenue for each pizza category.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT
        COUNT(order_id)  AS
total_orders
FROM
   orders;
```

OUTPUT

total_orders
21350

More than 1000 customers love this menu.

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CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
        ROUND(SUM(quantity * price), 2) AS
total_revenue
FROM
  order_details od
    JOIN
  pizzas p ON od.pizza_id = p.pizza_id
;
```

OUTPUT

	total_revenue
▶	817860.05

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CIDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
   p.name, pz.price
FROM
   pizza_types p
      JOIN
            pizzas   pz   ON   p.pizza_type_id   =
pz.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

OUTPUT

	name	price
▶	The Greek Pizza	35.95

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IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
        p.size,  COUNT(od.order_details_id)  AS most_ordered
FROM
  pizzas p
    JOIN
  order_details od ON p.pizza_id = od.pizza_id
GROUP BY p.size
ORDER BY most_ordered DESC;
```

OUTPUT

size	most_ordered
L	18526
M	15385
S	14137
XL	544
XXL	28

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

```
SELECT
    pt.name, SUM(od.quantity) AS top_5
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY top_5 DESC
LIMIT 5;
```

OUTPUT

name	top_5
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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JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT
    pt.category, SUM(od.quantity) AS total_category
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY category
ORDER BY total_category DESC;
```

OUTPUT

category	total_category
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
SELECT
    HOUR(order_time) AS hours, COUNT(order_id) AS
order_
FROM
   orders
GROUP BY hours;
```

OUTPUT

hours	order_
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

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JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

OUTPUT

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

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GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT
    ROUND(AVG(count_quantity), 0) as avg_orders
FROM
    (SELECT
        o.order_date, SUM(od.quantity) AS count_quantity
    FROM
        orders o
    JOIN order_details od ON o.order_id = od.order_id
    GROUP BY o.order_date) AS per_day_avg;
```

OUTPUT

avg_orders
138

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

```
SELECT
   pt.name, SUM(price * quantity) AS revenue
FROM
   pizza_types pt
      JOIN
   pizzas p ON pt.pizza_type_id = p.pizza_type_id
      JOIN
   order_details od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY revenue DESC
LIMIT 3;
```

OUTPUT

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

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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_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;
```

OUTPUT

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date ,sum(revenue) over(order by
order_date) as cummulative_revenue from
(select orders.order_date,
sum(order_details.quantity*pizzas.price)      as
revenue
from orders
join
order_details                                 on
orders.order_id=order_details.order_id
join
pizzas                                        on
order_details.pizza_id=pizzas.pizza_id
group by orders.order_date) as rev;
```

OUTPUT

order_date	cummulative_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
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003

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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 pt.category,pt.name,sum(od.quantity*p.price) as revenue
from pizza_types pt
join pizzas p on pt.pizza_type_id=p.pizza_type_id
join order_details od on p.pizza_id=od.pizza_id
group by pt.category , pt.name) as total_pizza) as top_3
where rn <= 3;
```

OUTPUT

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	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

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THANK YOU

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