



PIZZA SALES REPORT



HELLO,my name is FIZA YASMIN and this is
my protfolio project on database and
management system...
i is basically a pizza sales report.
here we have analyse the sales, revenue, most
selling pizzas and many more...

AGENDA

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
-
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.
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- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

- retrieve the total no of orders:

```
SELECT count(order_id) FROM orders;
```

Result Grid	
	count(order_id)
	21350

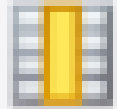

-- calculate the total revenue generated by orders

```
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 priza 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
LIMIT 1
```

Result Grid |   Filter Rows

	name	price
▶	The Greek Pizza	35.95

-- identify the most common 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 R	
	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 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.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	name	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 relevant tables to calculate the total
Determine the 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		

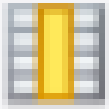

-- determine the the distribution of orders by hour of the day

```
SELECT
    HOUR(order_time) AS orderhour, SUM(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time)
ORDER BY order_count DESC;
```

Result Grid  Filter Rows: 		
	orderhour	order_count
▶	12	26929470
	13	26615205
	18	25808745
	17	24312547
	19	21634044
	16	20551671
	20	17668990
	15	15634879
	14	14867592
	11	13336362
	21	12868673
	22	7269872
	23	330700
	10	73999
	9	19176

-- 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_pizza_perday
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;
```

Result Grid

	avg_pizza_perday
--	------------------





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```

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: <input type="text"/>		
	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,
    (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 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;
```

Result Grid			Filter Rows:
	category	revenue	
▶	Classic	26.90596025566967	
	Supreme	25.45631126009862	
	Chicken	23.955137556847287	
	Veggie	23.682590927384577	

-- 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	2713.8500000000004
	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
	2015-01-14	32358.700000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001
	2015-01-17	39001.750000000001
	2015-01-18	40978.600000000006
	2015-01-19	43365.750000000001
	2015-01-20	45763.650000000001
	2015-01-21	47804.200000000001
	2015-01-22	50300.900000000001
	2015-01-23	52724.600000000006
	2015-01-24	55013.850000000006
	2015-01-25	56631.400000000001

2015-02-09	91333.350000000002
2015-02-10	93410.050000000002
2015-02-11	95870.050000000002
2015-02-12	98028.850000000002
2015-02-13	100783.350000000002
2015-02-14	103102.500000000001
2015-02-15	105243.750000000001
2015-02-16	107212.550000000002
2015-02-17	109334.450000000001
2015-02-18	111977.300000000002
2015-02-19	114007.550000000002
2015-02-20	116898.700000000001
2015-02-21	119009.700000000001
2015-02-22	120589.650000000001
2015-02-23	122758.200000000001
2015-02-24	124952.750000000001
2015-02-25	127294.050000000002
2015-02-26	129555.350000000002
2015-02-27	132413.300000000002

-- determine the top 3 most ordered pizza

```
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;
```

Result Grid			Filter Rows:	Exp
	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		