

SQL PROJECT ON PIZZA SALES



HELLO MY NAME IS LAKSHAY VINAYAK

IN THIS PROJECT I HAVE UTILIZED SQL
QUERIES TO SOLVE QUESTION ON
PIZZAS SALES





RETRIEVE THE TOTAL NUMBER OF
ORDERS PLACED.

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

total_orders

21350



LARANA PIZZA

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT

ROUND(SUM(quantity * price), 2) **AS** total_sales

FROM

order_details,

pizzas

WHERE

pizzas.pizza_id = order_details.pizza_id;

	total_sales
▶	817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    name, price
FROM
    pizzas,
    pizza_types
WHERE
    pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    size, COUNT(order_details_id) AS order_count
FROM
    pizzas,
    order_details
WHERE
    pizzas.pizza_id = order_details.pizza_id
GROUP BY size
ORDER BY order_count DESC
LIMIT 1;
```

	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 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 quantity DESC
LIMIT 5;
```


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


```
SELECT
    pizza_types.category, SUM(order_details.quantity) AS qty
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 qty DESC;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.


```
SELECT
    HOUR(order_time), COUNT(order_id)
FROM
    orders
GROUP BY HOUR(order_time) order by HOUR(order_time);
```



	HOUR(order_time)	COUNT(order_id)
▶	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642

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

```
select category, count(name) from pizza_types group by category;
```



category	count(name)
Chicken	6
Classic	8
St. Classic	9
Veggie	9

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

```
SELECT  
    ROUND(AVG(quantity))  
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;
```

	ROUND(AVG(quantity))
▶	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 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

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(quantity * price), 2) AS total_sales  
FROM  
    order_details,  
    pizzas  
WHERE  
    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 category order by revenue desc ;
```

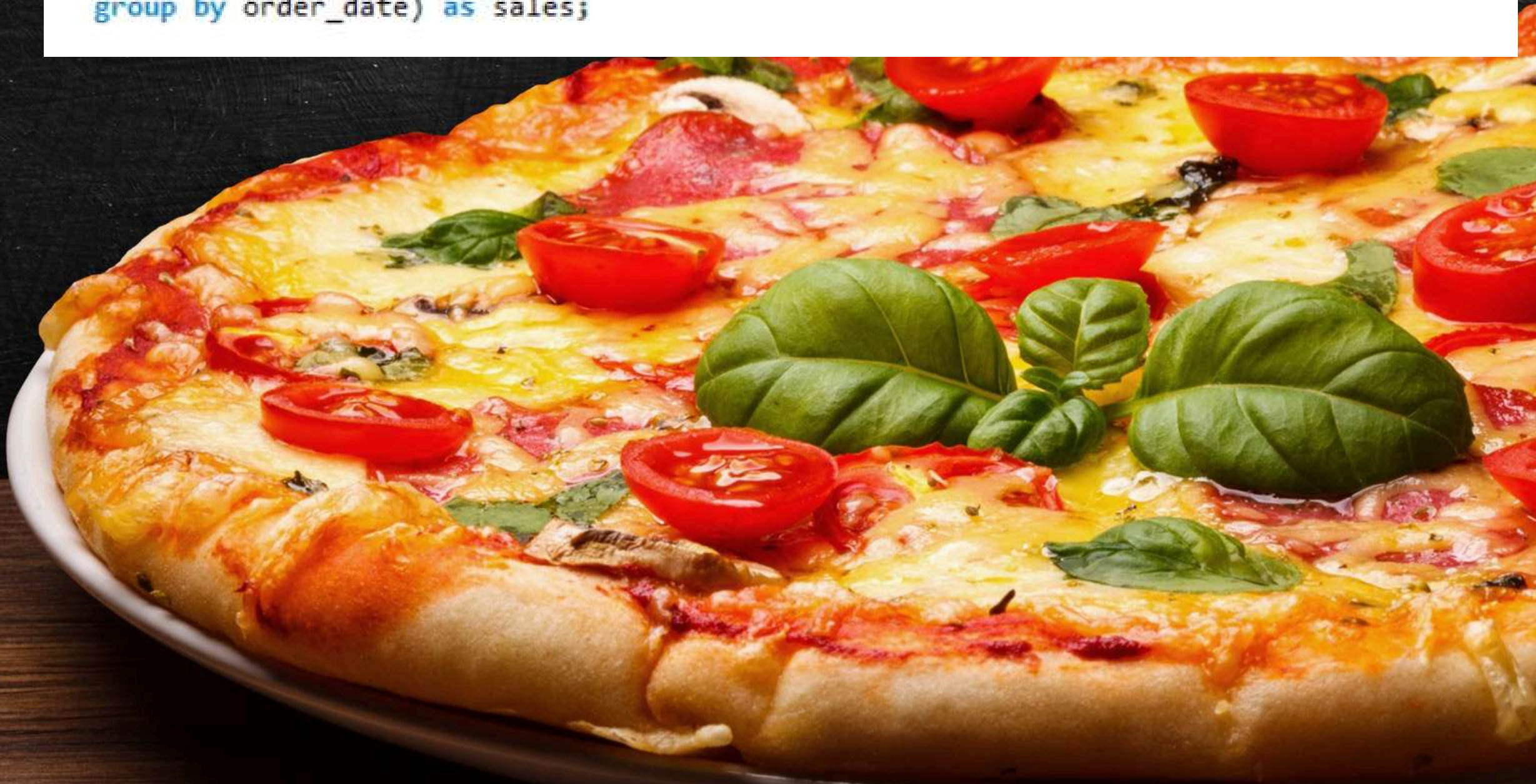


category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68



-- 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 order_date) as sales;
```



	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7

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	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