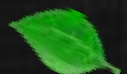**Borcelle**
PIZZA RESTAURANT

pizza sales SQL Project

Welcome To Pizza
PROJECT

Borcelle
PIZZA RESTAURANT

ABOUT SQL PZZA PROJECT

MYSQL WORKBENCH

MY NAME IS JANVI KASHYAP AND THIS ONE OF THE PROJECT ON PIZZA SALES BY EXECUTING SOME IMPORTANT SQL QUERIES BY LOOKING INTO THE BUSINESS PROBLEMS AND STATEMENTS AND GOT RELEVANT OUTCOMES AND RESULTS.THE DATABASE NAMES AS PIZZAHUT AND IT HAS FOUR RELATED TABLES DEFINED AS ORDERS, ORDER_DETAILS, PIZZAS AND PIZZA TYPES ALL THE NECESSARY BUSINESS REQUIREMENTS ARE RELATED TO ALL THESE FOUR TABLES AND GETTING RELEVANT RESULTS

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```sql
SELECT
    COUNT(Order_id) AS total_Order
FROM
    orders;
```

Result Grid

	total_Order
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```sql
SELECT
round(sum(order_details.quantity * pizzas.price),2)as total_sales
FROM order_details join pizzas
ON order_details.pizza_id = pizzas.pizza_id;
```

total_sales
▶ 817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

```sql
SELECT max(price) FROM pizzas;
SELECT pizzas.price,pizza_types.name
FROM pizzas JOIN pizza_types
ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY pizzas.price desc LIMIT 1;
```

	price	name
▶	35.95	The Greek Pizza

Result Grid | Filter Rows:

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```sql
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;
```

Result Grid | Filter Rows:

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

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

```sql
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS order_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.name
ORDER BY order_quantity DESC
LIMIT 5;
```

Result Grid	Filter Rows:	E

name	order_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.

```sql
SELECT pizza_types.category, sum(order_details.quantity) as order_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 order_quantity DESC;
```

Result Grid | Filter Rows:

category	order_quantity
Classic	1· 14888
Supreme	11987
Veggie	11649
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
SELECT
    HOUR(Order_time), COUNT(order_id)
FROM
    orders
GROUP BY HOUR(Order_time);
```

hour(Order_time)	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663

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

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

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.

```sql
SELECT round(AVG(quantity),0) 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),0)
▶	138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

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

Result Grid | Filter Rows: | Export:

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

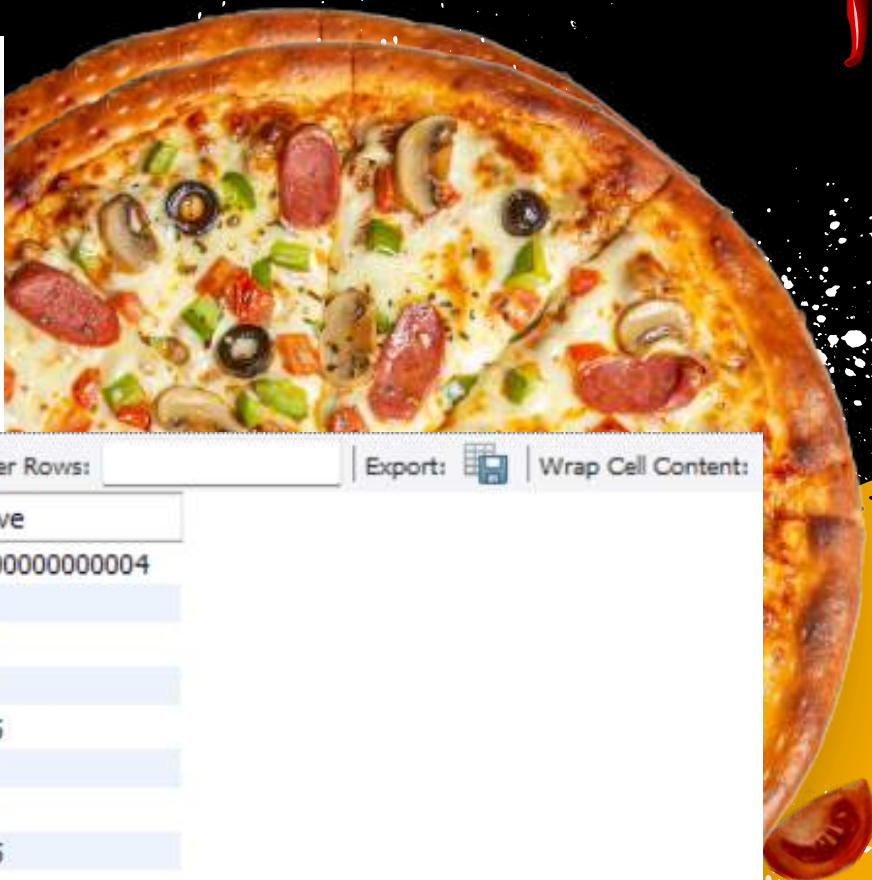# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```sql
SELECT pizza_types.category,
 round((SUM(pizzas.price * order_details.quantity) / (SELECT
round(sum(order_details.quantity * pizzas.price),2)as total_sales
FROM order_details join pizzas
ON order_details.pizza_id = pizzas.pizza_id)) *100 ,2)as revenue
FROM pizzas JOIN order_details
ON pizzas.pizza_id = order_details.pizza_id
JOIN pizza_types
ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.category ORDER BY revenue DESC ;
```

Result Grid | Filter Rows:

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68
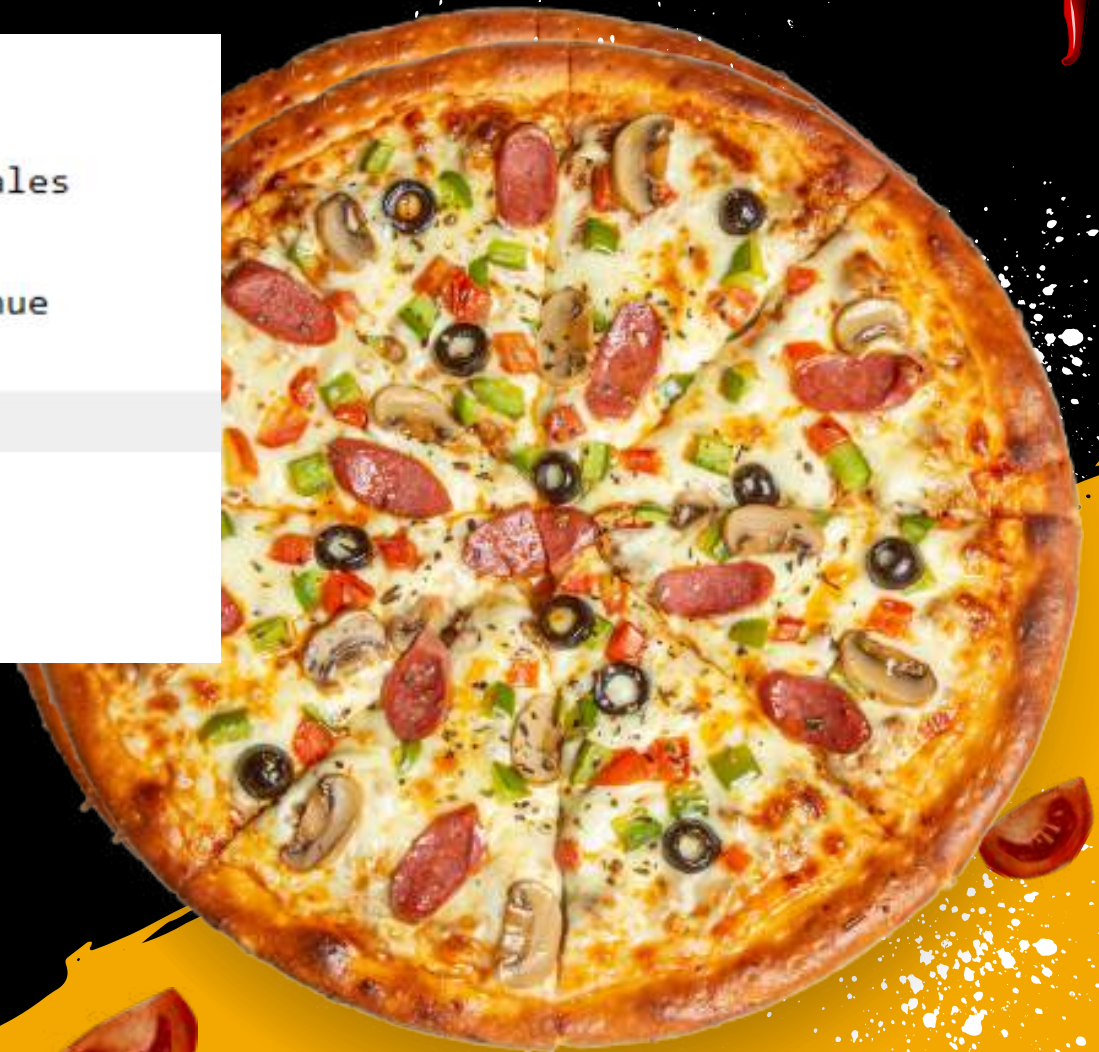
ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```sql
SELECT order_date,
SUM(revenue) OVER (ORDER BY order_date)  as cumulative
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: | Export: | Wrap Cell Content:

order_date	cumulative
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	34343.50000000001
2015-01-16	36937.65000000001

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 < 4;
```

	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

Result Grid | Filter Rows: | Export: | Wrap C