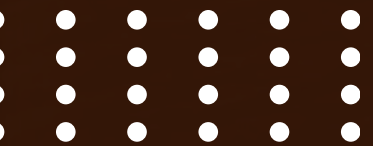# SQL BASED PIZZA SALES PROJECT

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Reference - WsCube tech

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```sql
2 •  SELECT
3         COUNT(order_id) AS total_orders
4     FROM
5         orders;
6
```

total_orders
21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```sql
2 •  SELECT
3        ROUND(SUM(order_details.quantity * pizzas.price),
4              2) as total_sales
5    FROM
6        order_details
7            JOIN
8        pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

total_sales
817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

```sql
2 •  SELECT
3         pizza_types.name, pizzas.price
4     FROM
5         pizza_types
6             JOIN
7         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
8     ORDER BY pizzas.price DESC
9     LIMIT 1;
```

name	price
▶ The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```sql
2 •  SELECT
3         pizzas.size,
4         COUNT(order_details.order_details_id) AS order_count
5    FROM
6         pizzas
7             JOIN
8         order_details ON pizzas.pizza_id = order_details.pizza_id
9    GROUP BY pizzas.size
10   ORDER BY order_count DESC limit 1;
```

size	order_count
▶ L	18526

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

```sql
2 •  SELECT
3        pizza_types.name,
4        SUM(order_details.quantity) AS sum_quantity
5    FROM
6        pizza_types
7            JOIN
8        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9            JOIN
10       order_details ON order_details.pizza_id = pizzas.pizza_id
11   GROUP BY pizza_types.name
12   ORDER BY sum_quantity DESC
13   LIMIT 5;
```

name	sum_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
2 •  SELECT
3        pizza_types.category,
4        SUM(order_details.quantity) AS quantity
5    FROM
6        pizza_types
7            JOIN
8        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9            JOIN
10       order_details ON order_details.pizza_id = pizzas.pizza_id
11   GROUP BY pizza_types.category
12   ORDER BY quantity DESC;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
2 •  SELECT
3         HOUR(order_time) AS hour, COUNT(order_id) AS order_count
4      FROM
5         orders
6      GROUP BY hour;
```

hour	order_count
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
10	8
9	1

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

```
2 ●    SELECT
3          category, COUNT(name) count_of_name
4      FROM
5          pizza_types
6      GROUP BY category;
```

category	count_of_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
2 •  SELECT
3         ROUND(AVG(quantity), 0) as avg_order
4     FROM
5   ⊖     (SELECT
6             orders.order_date, SUM(order_details.quantity) AS quantity
7         FROM
8             orders
9         JOIN order_details ON order_details.order_id = orders.order_id
10        GROUP BY orders.order_date) AS order_quantity;
```

avg_order
▶ 138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```sql
2 •  SELECT
3         pizza_types.name,
4         sum(order_details.quantity * pizzas.price) AS revenue
5     FROM
6         pizza_types
7             JOIN
8         pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
9             JOIN
10        order_details ON order_details.pizza_id = pizzas.pizza_id
11    group by pizza_types.name
12    ORDER BY revenue DESC
13    LIMIT 3;
14
```

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
2  •  SELECT
3          pizza_types.category,
4          round( (SUM(order_details.quantity * pizzas.price) / (SELECT
5                      ROUND(SUM(order_details.quantity * pizzas.price),
6                          2) AS total_sales
7              FROM
8                  order_details
9                      JOIN
10                 pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100 ,2)AS revenue
11  FROM
12      pizza_types
13          JOIN
14      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
15          JOIN
16      order_details ON order_details.pizza_id = pizzas.pizza_id
17  GROUP BY pizza_types.category
18  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

```sql
2 •  select order_date,
3    sum(revenue) over(order by order_date) as cum_revenue
4    from
5    (select orders.order_date,
6    sum(order_details.quantity*pizzas.price) as revenue
7    from order_details join pizzas
8    on order_details.pizza_id=pizzas.pizza_id
9    join orders on orders.order_id=order_details.order_id
10   group by orders.order_date) as sales;
```

▶ 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

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```sql
2 •   select name,revenue from
3     (select category,name,revenue,
4      rank() over ( partition by category order by revenue desc) as rn
5     from
6     (select pizza_types.category,pizza_types.name,
7     sum((order_details.quantity)*pizzas.price)as revenue
8     from pizza_types join pizzas on
9     pizza_types.pizza_type_id=pizzas.pizza_type_id
10    join order_details on order_details.pizza_id=pizzas.pizza_id
11    group by pizza_types.category,pizza_types.name)as a )as b
12    where rn<=3;
13
```

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

THANK YOU