MYSQL PROJECT UTILIZING DDL - DML FUNCTIONALITY

PIZZA SALES DATABASE

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My name is ashish dhall an IT Business Analysis student in conestoga college, Canada

Worked as Supervisor in AVG Logistics Limited for 3 years managing Clients, Data and Consignments.

>>> Made project to depict my expertise in sql queries and handled every type of report generation scenarios using almost all keywords , aggregations functions and utilized DDL for Database creation.

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

```sql
select revenue, name , category from
(select revenue, name, category, rank() over(partition by category order by revenue desc)as rn
from (select pt.name , sum(quantity*price)  as revenue, pt.category
from order_details od
Join pizzas p using(pizza_id)
Join pizza_types pt using(pizza_type_id)
group by pt.category,pt. name ) as s) as b
where rn <= 3;
```

revenue	name	category
43434.25	The Thai Chicken Pizza	Chicken
42768	The Barbecue Chicken Pizza	Chicken
41409.5	The California Chicken Pizza	Chicken
38180.5	The Classic Deluxe Pizza	Classic
32273.25	The Hawaiian Pizza	Classic
30161.75	The Pepperoni Pizza	Classic
34831.25	The Spicy Italian Pizza	Supreme
33476.75	The Italian Supreme Pizza	Supreme
30940.5	The Sicilian Pizza	Supreme

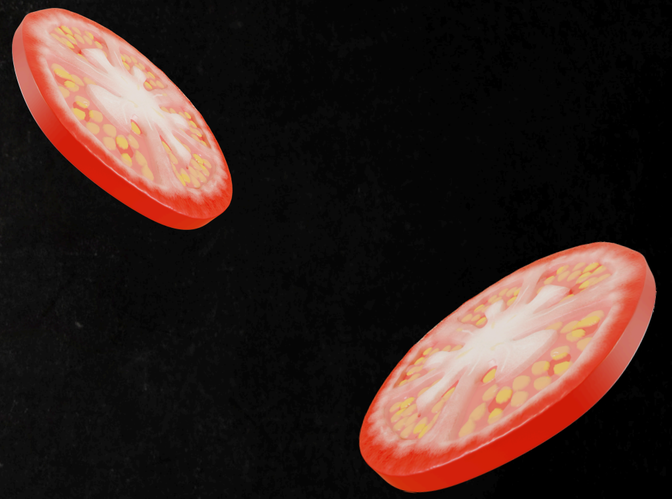
-- CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```sql
SELECT
    category,
    SUM(quantity * price) * 100 / (SELECT
            SUM(quantity * price)
        FROM
            order_details o
                JOIN
            pizzas p USING (pizza_id)) AS R
FROM
    order_details o
        JOIN
    pizzas p USING (pizza_id)
        JOIN
    pizza_types pt USING (pizza_type_id)
GROUP BY category
ORDER BY R DESC
LIMIT 3;
```

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

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

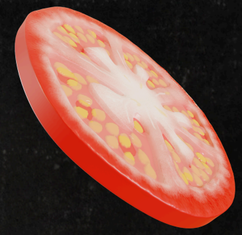
```
    SELECT
    pt.name, SUM(p.price) AS pr, SUM(o.quantity) qty
FROM
    pizza_types pt
        JOIN
    pizzas p USING (pizza_type_id)
        JOIN
    order_details o USING (pizza_id)
GROUP BY pt.name
ORDER BY qty DESC
LIMIT 5;
```

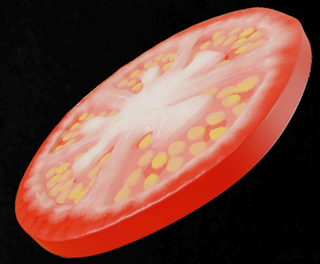


name	TOtal_Price	qty
The Classic Deluxe Pizza	37631.5	2453
The Barbecue Chicken Pizza	41683	2432
The Hawaiian Pizza	31561.75	2422
The Pepperoni Pizza	29538.25	2418
The Thai Chicken Pizza	42332.25	2371

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

```sql
SELECT
    SUM(o.quantity) AS qty, pt.category
FROM
    order_details o
        JOIN
    pizzas p USING (pizza_id)
        JOIN
    pizza_types pt USING (pizza_type_id)
GROUP BY category
ORDER BY qty;
```





	qty	category
▶	11050	Chicken
	11649	Veggie
	11987	Supreme
	14888	Classic

-- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
SELECT
    HOUR(order_time) AS hr, COUNT(order_id)
FROM
    orders
GROUP BY hr;
```

hr	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468

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

```sql
SELECT
    AVG(qty)
FROM
    (SELECT
        o.order_date AS OD, SUM(od.quantity) AS qty
    FROM
        orders o
    JOIN order_details od USING (order_id)
    GROUP BY OD) AS Order_quantity;
```

AVG(qty)
138.4749

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

```sql
SELECT
    name, SUM(quantity * price) R
FROM
    order_details o
        JOIN
    pizzas p USING (pizza_id)
        JOIN
    pizza_types pt USING (pizza_type_id)
GROUP BY name
ORDER BY R DESC
LIMIT 3;
```

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

-- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select d, round(sum(revenue) over(order by d),2) as CR
from (select  O.order_date as d, sum(quantity*price) as revenue
from order_details od
Join pizzas p using(pizza_id)
Join orders O using(order_id)
group by O.order_date order by d) as sales;
```

d	CR
2015-01-01	2713.85
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