SQL Project : Pizza Data Set

Work with 4 table includes Orders, Orders_details, Pizzas, Pizza_type

1.Orders_detials (48420*4)

100% 25:1 Result Grid III 🚷 Filter Rows: Q Search Edit: order_details_id order_id pizza_id quantity hawaiian_m 2 classic_dlx_m 1 2 five_cheese_l 2 ital_supr_l mexicana_m 2 thai_ckn_l 3 3 prsc_argla_l 4 ital_supr_m 10 5 ital_supr_m 11 12 bbq_ckn_s 6 the_greek_s 13 spinach_sup... 14 8 spinach_sup... 15 9 classic_dlx_s

2. Orders (21350 * 3)

100% \$	32:1	
Result Grid	III 💎 Filter Row	rs: Q Search Edit:
order_id	order_date	order_time
1	2015-01-01	11:38:36
2	2015-01-01	11:57:40
3	2015-01-01	12:12:28
4	2015-01-01	12:16:31
5	2015-01-01	12:21:30
6	2015-01-01	12:29:36
7	2015-01-01	12:50:37
8	2015-01-01	12:51:37
9	2015-01-01	12:52:01
10	2015-01-01	13:00:15
11	2015-01-01	13:02:59
12	2015-01-01	13:04:41
13	2015-01-01	13:11:55
14	2015-01-01	13:14:19
15	2015-01-01	13:33:00
10	10015 01 01	140.04.07

3. Pizzas (96*3)

pizza_id	pizza_type_id	si price
DD4_0111_111	DD4_0111	10.70
bbq_ckn_l	bbq_ckn	L 20.75
cali_ckn_s	cali_ckn	S 12.75
cali_ckn_m	cali_ckn	M 16.75
cali_ckn_l	cali_ckn	L 20.75
ckn_alfredo_s	ckn_alfredo	S 12.75
ckn_alfredo_m	ckn_alfredo	M 16.75
ckn_alfredo_l	ckn_alfredo	L 20.75
ckn_pesto_s	ckn_pesto	S 12.75
ckn_pesto_m	ckn_pesto	M 16.75
ckn_pesto_l	ckn_pesto	L 20.75
southw_ckn_s	southw_ckn	S 12.75
southw_ckn_m	southw_ckn	M 16.75
southw_ckn_l	southw_ckn	L 20.75
thai_ckn_s	thai_ckn	S 12.75
thai ckn m	thai ckn	M 16.75

4. Pizza type (36*4)

pizza_type_id	name	category	ingredients
oun_oun	THO Gamorina Ginokori i izza	O I II O II O II	omonom, radonono, opinaom, aamo, valapono i
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushroom
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Gar
southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions,
thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sa
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Pepp
hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
ital_cpcllo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee
napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onion
pep_msh_pep	The Pepperoni, Mushroom,	Classic	Pepperoni, Mushrooms, Green Peppers
pepperoni	The Pepperoni Pizza	Classic	Mozzarella Cheese, Pepperoni
the_greek	The Greek Pizza	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garli

Requirement

1. Calculate the total revenue generated from pizza sales.

```
SELECT sum(p.price*o.quantity) as revenue
FROM
    (SELECT pizza_id, price FROM pizzas) AS p

JOIN
    (SELECT pizza_id, quantity FROM orders_details) AS o
ON p.pizza_id = o.pizza_id;
-- or
select sum(pizzas.price*orders_details.quantity) from pizzas join orders_details
on pizzas.pizza_id = orders_details.pizza_id;
```

revenue 817860.049999993

2. Identify the highest-priced pizza.

```
select name, price from pizzas join pizza_types
on pizzas.pizza_type_id = pizza_types.pizza_type_id order by price desc limit 1;
-- or
select name, price from
(select pizza_type_id as w, price from pizzas)a
join
(select name, pizza_type_id as v from pizza_types)b
on a.w = b.v order by price desc limit 1;
```

3. List the top 5 most ordered pizza types along with their quantities.

name	price
The Greek Pizza	35.95

4. Join the necessary tables to find the total quantity of each pizza category ordered.

category	t_quanti	
Chicken	11050	
Veggie	11649	- 1
Supreme	11987	
Classic	14888	

5. Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT

AVG(qu) AS Avg_order_per_day

FROM

(SELECT

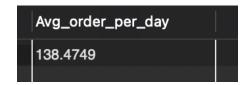
orders.order_date AS o, SUM(orders_details.quantity) AS qu

FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

GROUP BY o) t;
```



6. Determine the top most ordered pizza types based on revenue.

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 Spicy Italian Pizza	34831.25
The Southwest Chicken Pizza	34705.75
The Italian Supreme Pizza	33476.75
The Hawaiian Pizza	32273.25
The Four Cheese Pizza	32265.70000000065
The Sicilian Pizza	30940.5
The Pepperoni Pizza	30161.75
The Greek Pizza	28454.1000000000
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

7. Analyze the cumulative revenue generated over time.

```
select *,
sum(revenue) over (order by order_date) as cum_sum_revenue from
) (
select order_date, round(sum(price*quantity),2) as revenue from pizzas join orders_details
on pizzas.pizza_id = orders_details.pizza_id
join orders on orders.order_id = orders_details.order_id group by order_date)t;
```

order_date	revenue	cum_sum_revenue
2015-01-01	2713.85	2713.85
2015-01-02	2731.9	5445.75
2015-01-03	2662.4	8108.15
2015-01-04	1755.45	9863.6
2015-01-05	2065.95	11929.55
2015-01-06	2428.95	14358.5
2015-01-07	2202.2	16560.7

8. Determine the top 3 most ordered pizza types based on revenue for each pizza catego

```
select * from
)(select name, category, revenue, rank() over(partition by category order by revenue desc) as top_rank_base_on_category
)(
select category, name,
sum(price*quantity) as revenue
from pizzas join orders_details on pizzas.pizza_id = orders_details.pizza_id
- join pizza_types on pizzas.pizza_type_id = pizza_types.pizza_type_id group by category, name order by revenue) t)r
where top_rank_base_on_category<=3;</pre>
```

name	category	revenue	top_rank_base_on_category
The Thai Chicken Pizza	Chicken	43434.25	1
The Barbecue Chicken Pizza	Chicken	42768	2
The California Chicken Pizza	Chicken	41409.5	3
The Classic Deluxe Pizza	Classic	38180.5	1
The Hawaiian Pizza	Classic	32273.25	2
The Pepperoni Pizza	Classic	30161.75	3
The Spicy Italian Pizza	Supreme	34831.25	1
The Italian Supreme Pizza	Supreme	33476.75	2
The Sicilian Pizza	Supreme	30940.5	3
The Four Cheese Pizza	Veaaie	32265.70	1