Data Analysis Project on Pizza Sales through MySQL

Dataset Schema

Orders Table

Result Grid | Filter Rows: order_id order_date order_time 2015-01-01 11:38:36 2015-01-01 11:57:40 2 3 2015-01-01 12:12:28 4 2015-01-01 12:16:31 2015-01-01 12:21:30 2015-01-01 12:29:36 6 7 2015-01-01 12:50:37 2015-01-01 12:51:37 8 9 2015-01-01 12:52:01 10 2015-01-01 13:00:15 2015-01-01 13:02:59 2015-01-01 13:04:41 12 2015-01-01 13:11:55 13 2015-01-01 13:14:19 14 15 2015-01-01 13:33:00 16 2015-01-01 13:34:07

2015-01-01 13:53:00 2015-01-01 13:57:08

Orders_details Table

	order_details_id	order_id	pizza_id	quantity
•	1	1	hawaiian_m	1
	2	2	classic_dlx_m	1
	3	2	five_cheese_l	1
	4	2	ital_supr_l	1
	5	2	mexicana_m	1
	6	2	thai_ckn_l	1
	7	3	ital_supr_m	1
	8	3	prsc_argla_l	1
	9	4	ital_supr_m	1
	10	5	ital_supr_m	1
	11	6	bbq_ckn_s	1
	12	6	the_greek_s	1
	13	7	spinach_supr_s	1
	14	8	spinach_supr_s	1
	15	9	classic_dlx_s	1
	16	9	green_garde	1
	17	9	ital_cpcllo_l	1
	19	0	ital curr I	1

Pizzas Table

Result Grid | | Filter Rows:

17

pizza_id

bbq_ckn_s bbq_ckn S 12.75 bbq_ckn_m bbq_ckn 16.75 bbq_dkn_l bbq_ckn 20.75 cali_ckn_s cali_ckn S 12.75 cali_ckn_m cali_ckn 16.75 cali_ckn_l cali_ckn 20.75 ckn_alfredo_s ckn_alfredo 12.75 ckn_alfredo_m ckn_alfredo 16.75 ckn_alfredo_l ckn_alfredo L 20.75 ckn_pesto_s ckn_pesto S 12.75 ckn_pesto_m ckn_pesto 16.75 ckn_pesto_l ckn_pesto L 20.75 southw_ckn_s southw_ckn S 12.75

southw_ckn_m southw_ckn

thai_ckn_s thai_ckn

southw_ckn

thai ckn

thai de

southw_ckn_l

thai_ckn_m

that also I

pizza_type_id size

price

M 16.75

S

20.75

12.75

16.75

20 75

Pizza_types Table

pizza_type_id	name	category	ingredients
bbq_dkn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppe.
cali_dkn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P.
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms.
dkn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl
southw_dkn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions,
thai_dkn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T.
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe
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.
brie_carre	The Brie Carre Pizza	Supreme	Brie Carre Cheese, Prosciutto, Caramelized Oni.
calabrese	The Calabrese Pizza	Supreme	'Nduja Salami, Pancetta, Tomatoes, Red Onions
ital_supr	The Italian Supreme Pizza	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O.
nennr salami	The Penner Salami Pizza	Supreme	Genoa Salami, Canocollo, Penneroni, Tomatnes,

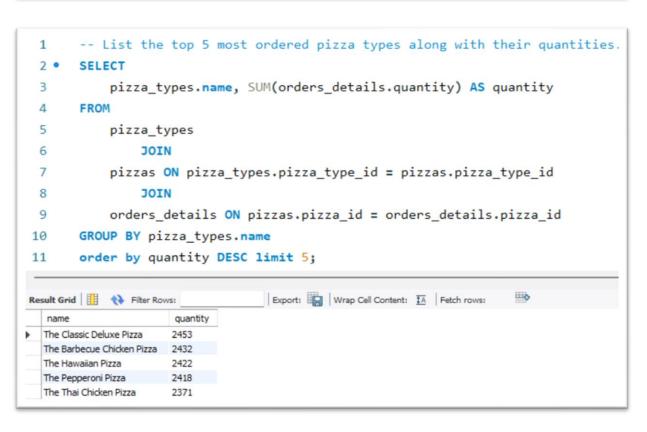
```
1 -- Retrieve the total number of orders placed.
2 • SELECT
3 COUNT(order_id) AS total_orders
4 FROM
5 orders;

Result Grid  Filter Rows: Export: Wrap Cell Content: TA

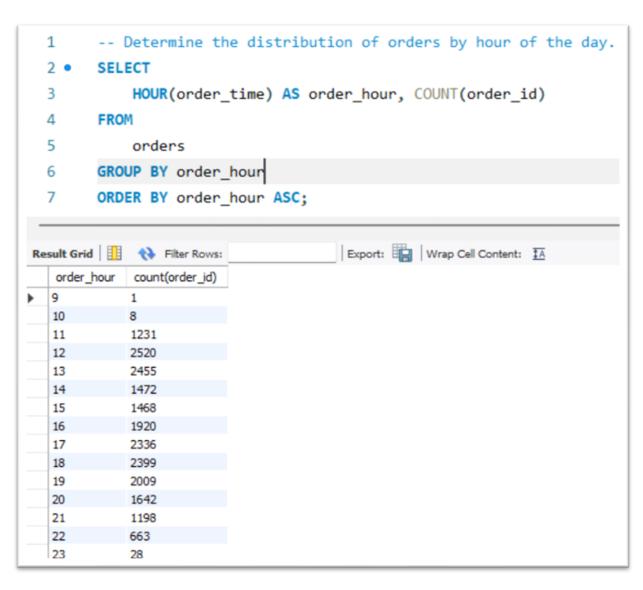
total_orders
1 total_orders
1 total_orders
1 total_orders
1 total_orders
1 total_orders
```

```
-- Calculate the total revenue generated from pizza sales.
       SELECT
          ROUND(SUM(orders_details.quantity * pizzas.price),
 3
 4
                  2) AS total_revenue
 5
       FROM
          orders_details
 6
 7
              JOIN
          pizzas ON orders details.pizza id = pizzas.pizza id;
                       Export: Wrap Cell Content: 1A
total_revenue
 817860.05
```

```
-- Identify the most common pizza size ordered.
 2 .
       SELECT
 3
           pizzas.size,
           COUNT(orders_details.order_details_id) AS order_count
       FROM
 6
           pizzas
 7
               JOIN
           orders_details ON pizzas.pizza_id = orders_details.pizza_id
 8
 9
       GROUP BY pizzas.size
       ORDER BY order_count DESC;
10
                                  Export: Wrap Cell Content: IA
order_count
  size
       18526
       15385
  M
       14137
  XL
       544
 XXI
       28
```



```
-- Join the necessary tables to find the total quantity of each pizza category ordered
 1
 2 • SELECT
 3
          pizza_types.category,
 4
          SUM(orders_details.quantity) AS quantity
 5
          pizza_types
 7
              JOIN
 8
          pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
 9
          orders_details ON pizzas.pizza_id = orders_details.pizza_id
10
      GROUP BY pizza_types.category;
11
Export: Wrap Cell Content: IA
  category quantity
 Classic
        14888
 Veggie
        11649
 Supreme 11987
 Chicken
```

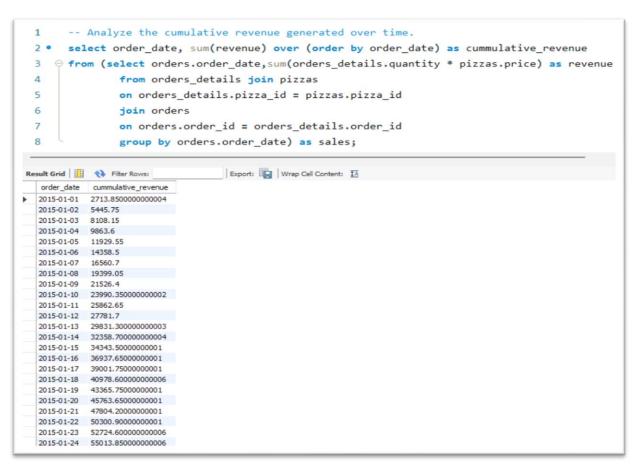


```
-- Join relevant tables to find the category-wise distribution of pizzas.
 1
 2 • SELECT
 3
          category, COUNT(name)
      FROM
 5
          pizza_types
      GROUP BY category;
Export: Wrap Cell Content: IA
  category COUNT(name)
 Chicken
  Classic
        8
  Supreme 9
 Vennie
        Q
```

```
-- Group the orders by date and calculate the average number of pizzas ordered per day.
 1
 2 .
      SELECT
 3
          ROUND(AVG(quantity), 0) AS avg_order_per_day
 4
      FROM
 5
          (SELECT
              orders.order_date, SUM(orders_details.quantity) AS quantity
 6
 7
 8
              orders
 9
          JOIN orders_details ON orders.order_id = orders_details.order_id
10
          GROUP BY orders.order_date) AS order_quantity;
Export: Wrap Cell Content: IA
 avg_order_per_day
```

```
-- Determine the top 3 most ordered pizza types based on revenue.
       SELECT
 3
           pizza_types.name,
           ROUND(SUM(pizzas.price * orders_details.quantity),
 4
                    2) AS revenue
 5
       FROM
 6
 7
           orders_details
 8
           pizzas ON orders_details.pizza_id = pizzas.pizza_id
10
           pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
12
       GROUP BY pizza_types.name
       ORDER BY revenue DESC
13
       LIMIT 3;
14
                                 Export: Wrap Cell Content: A Fetch rows:
revenue
 The Thai Chicken Pizza
                    43434.25
  The Barbecue Chicken Pizza 42768
  The California Chicken Dizza
                    41400 5
```

```
1
       -- Calculate the percentage contribution of each pizza type to total revenue.
 2 .
       SELECT
 3
           pizza types.category,
 4
           ROUND((SUM(pizzas.price * orders_details.quantity) / (SELECT
 5
                            SUM(orders_details.quantity * pizzas.price)
                        FROM
 6
 7
                            orders details
                                JOIN
 8
 9
                            pizzas ON orders_details.pizza_id = pizzas.pizza_id) * 100),
10
                    2) AS revenue_percentage
11
       FROM
12
           orders details
13
               JOIN
           pizzas ON orders_details.pizza_id = pizzas.pizza_id
14
15
16
           pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
17
       GROUP BY pizza_types.category;
Export: Wrap Cell Content: IA
  category revenue_percentage
  Classic
          26.91
         23.68
  Veggie
         25.46
  Supreme
  Chicken
          23.96
```



```
1
     -- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
 2 • select name, revenue from
 rank() over(partition by category order by revenue desc) as rn
 4
 5 | from(select pizza_types.category, pizza_types.name, sum((orders_details.quantity) * pizzas.price) as revenue
 6
      from pizza_types join pizzas
      on pizza_types.pizza_type_id = pizzas.pizza_type_id
 7
     join orders_details
 8
      on orders_details.pizza_id = pizzas.pizza_id
 9
group by pizza_types.category, pizza_types.name) as a) as b where rn <= 3;</pre>
| Export: 📳 | Wrap Cell Content: 🏗
  name
                    revenue
The Thai Chicken Pizza
                    43434.25
  The Barbecue Chicken Pizza 42768
  The California Chicken Pizza 41409.5
  The Classic Deluxe Pizza 38 180.5
  The Hawaiian Pizza
                    32273.25
  The Pepperoni Pizza
  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
```