Pizza sale Data analysis

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A.Retrieve the total number of orders placed.

```
2  select * from orders;
3  select * from pizzas;
4  select *from pizza_types;
5
6
7  /****************** 1. A) Retrieve the total number of orders placed.**********************/
8
9
10 select count(order_id) from orders;
11
12
```

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

count(order_id)
21350

B.Calculate the total revenue generated from pizza sales.

```
9
10  select count(order_id) from orders;
11
12
13  /******************  1. B) Calculate the total revenue generated from pizza sales.**************************/
14
15  select
16  sum((order_details .quantity * pizzas .price) )as Total_sales
17  from order_details join pizzas
18  on pizzas.pizza_id = order_details.pizza_id;
19
```

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

Total_sales
710297.2499999995

C.Identify the highest-priced pizza.

```
20
21    /* C ) Identify the highest-priced pizza.*/
22 •  select pizza_types.name , pizzas.price
23    from  pizza_types join pizzas
24    on pizza_types.pizza_type_id = pizzas.pizza_type_id
25    order by pizzas.price desc
26    limit 1;
27
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	price
The Greek Pizza	35.95

D.Identify the most common pizza size ordered.

```
7
8    /* D) Identify the most common pizza size ordered.*/
9
10 • select quantity , count(order_details_id)
11   from order_details group by quantity;
12
```

sult Grid | Filter Rows: | Export: | Wrap Cell Content:

quantity	count(order_details_id)
1	41414
2	780
3	18
4	3

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

```
33
34    /** E) List the top 5 most ordered pizza types along with their quantities.******/
35 •  select pizzas.size, count(order_details.order_details_id) as order_count
36    from pizzas join order_details
37    on pizzas.pizza_id = order_details.pizza_id
38    group by pizzas.size order by  order_count desc;
39
```

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

size	order_count
L	16094
M	13369
S	12246
XL	481
XXL	25

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

```sql
/**** A)Join the necessary tables to find the total quantity of each pizza category ordered.**************/
SELECT pizza_types.category,
 SUM(order_details.quantity) AS 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 quantity DESC
LIMIT 5;
```

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

category	quantity
Classic	12920
Supreme	10427
Veggie	10103
Chicken	9590

B.Determine the distribution of orders by hour of the day.

```
16
17    /**** B)Determine the distribution of orders by hour of the day.************/
18 •  select hour(order_time) As hour , count(order_id) AS order_count
19    from orders
20    group by hour(order_time);
21
```

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

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

C. Join relevant tables to find the category-wise distribution of pizzas.

```
21
22    /** C) Join relevant tables to find the category-wise distribution of pizzas.*/
23 •  select category , count(name) from pizza_types
24    group by category;
25
26
```

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

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

Result 4

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

```
27
28    -- //* C) Group the orders by date and calculate the average number of pizzas ordered per day.*/
29 •  SELECT AVG(quantity)
30    FROM (
31        SELECT orders.order_date, SUM(order_details.quantity) AS quantity
32        FROM orders
33        JOIN order_details ON orders.order_id = order_details.order_id
34        GROUP BY orders.order_date
35    ) AS order_quantity;
36
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content:

AVG(quantity)
138.3923

esult 5 ×

E. Determine the top 3 most ordered pizza types based on revenue.

```sql
/*** D)Determine the top 3 most ordered pizza types based on revenue.***/

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

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	revenue
The Barbecue Chicken Pizza	37241.25
The Thai Chicken Pizza	37238.25
The California Chicken Pizza	35850.25