PIZZA SALES ANALYSIS USING MYSQL

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- College: PW IOI, IIT Patna
- Tool Used: MySQL
- Total Questions Solved: 11
- Categories: Basics, Intermediate, Advanced SQL
- Goal: Derive insights from transactional pizza sales data

DATASET: PIZZA SALES

Tables Used

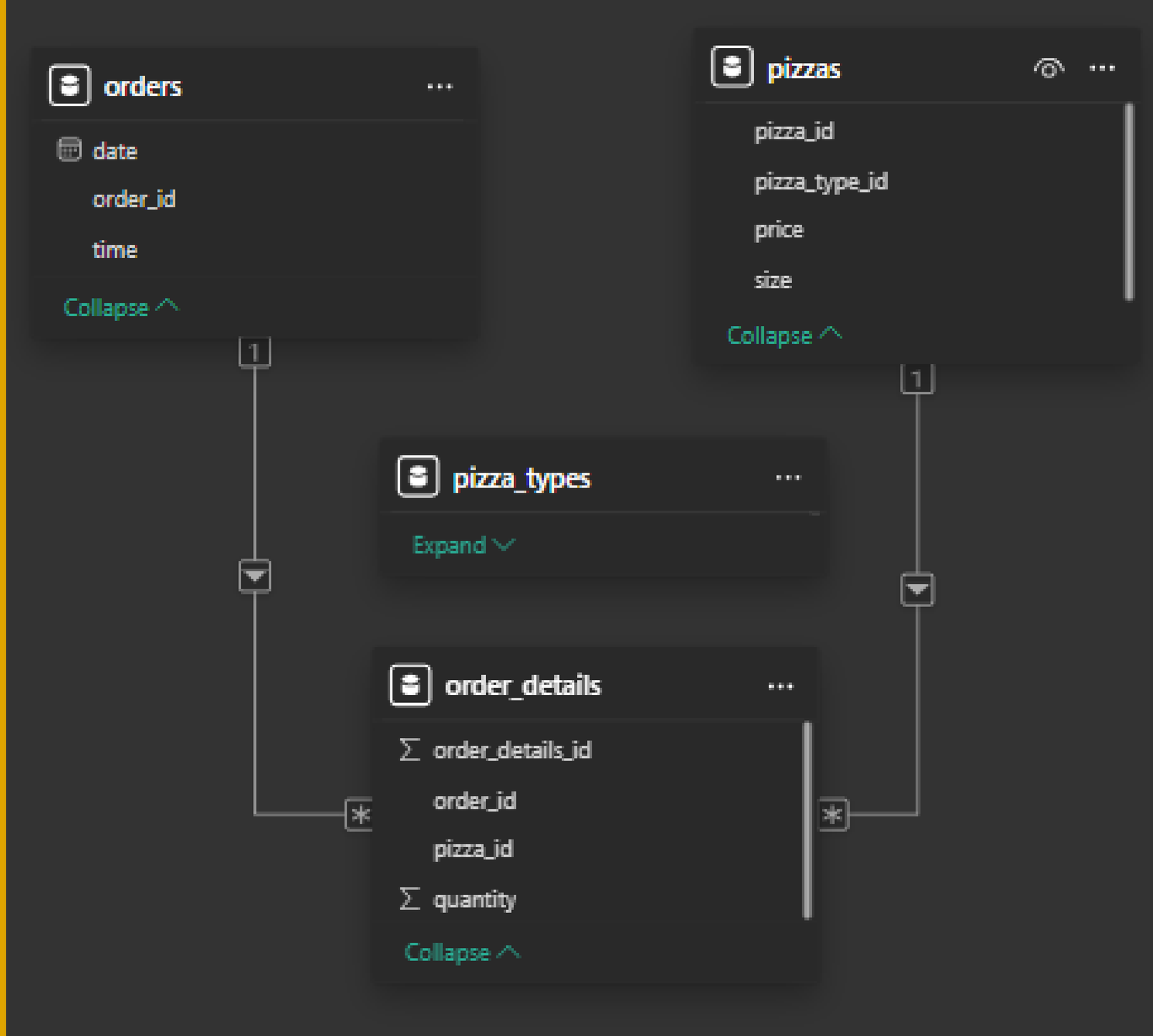
01 orders = order_id, order_date, time

02 order_details = pizza_id, quantity, order_id

03 pizzas = pizza_id, price, size, pizza_type_id

04 pizza_types = pizza_type_id, name, category

MODAL VIEW


orders
date
order_id
time
Collapse
pizzas
pizza_id
pizza_type_id
price
size
Collapse
pizza_types
Expand
order_details
order_details_id
order_id
pizza_id
quantity
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1
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1
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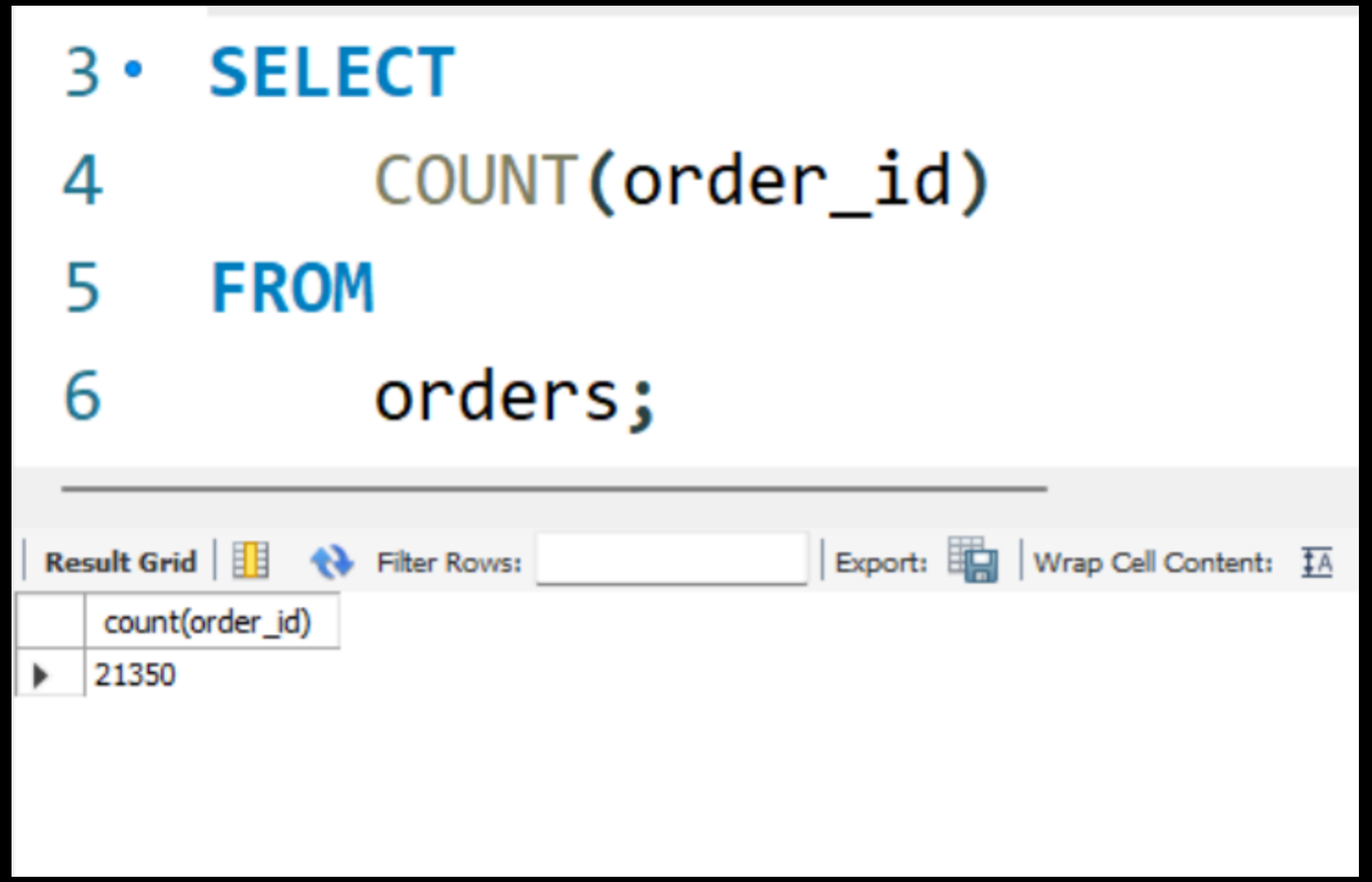
Retrieve the total number of orders placed.



Calculate the total revenue generated from pizza sales.

```
3 •   SELECT
4         ROUND(SUM((order_details.quantity * pizzas.price)),
5                 2) AS 'Revenue'
6     FROM
7         order_details
8             JOIN
9         pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

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

Revenue
817860.05

Identify the highest-priced pizza.

```
2 •  SELECT pizza_types.name,
3    pizzas.price FROM
4    pizza_types join pizzas
5    ON pizza_types.pizza_type_id = pizzas.pizza_type_id
6    ORDER BY price DESC limit 1;
```

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

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered.

```sql
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS Order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY Order_count DESC
LIMIT 1;
```

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

size	Order_count
L	18526

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

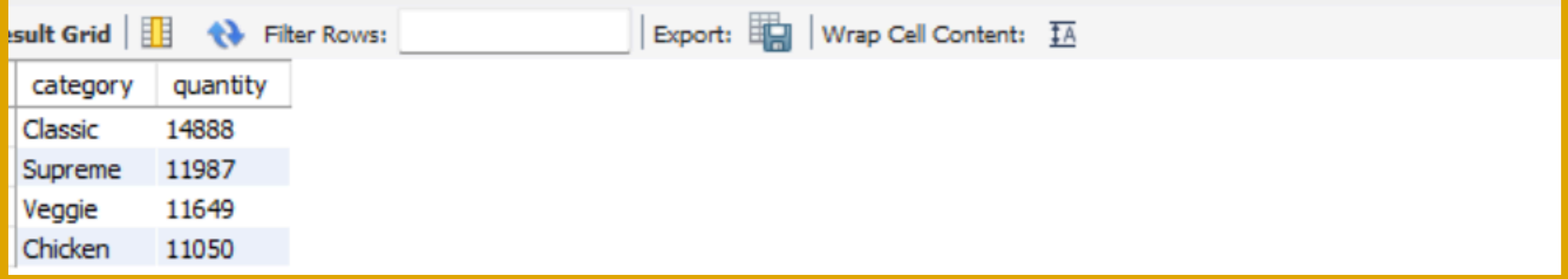
```
3 •  SELECT pizzas.pizza_type_id, SUM(order_details.quantity) AS total_orders
4    FROM pizzas join order_details
5    ON pizzas.pizza_id = order_details.pizza_id
6    group by pizzas.pizza_type_id
7    ORDER BY total_orders desc limit 5;
8
```

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

pizza_type_id	total_orders
classic_dlx	2453
bbq_ckn	2432
hawaiian	2422
pepperoni	2418
thai_ckn	2371

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

```
3 •   SELECT pizza_types.category, SUM(order_details.quantity) AS quantity
4     FROM pizza_types join pizzas
5     ON pizza_types.pizza_type_id = pizzas.pizza_type_id
6     join order_details
7     ON order_details.pizza_id = pizzas.pizza_id
8     GROUP BY pizza_types.category
```



category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day.

```
3 •  SELECT hour(order_time) AS "Hour of the day",
4    | count(order_id) AS Orders_count
5    FROM orders
6    group by hour(order_time);
```

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

Hour of the day	Orders_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336

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

```
7 •  SELECT category, count(name) AS "number of pizzas"
8    FROM pizza_types
9    GROUP BY category;
```

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

category	number of pizzas
Chicken	6
Classic	8
Supreme	9
Veggie	9

calculate the average number of pizzas ordered per day.

```
4 •  SELECT round(avg(quantity), 0) AS avg_pizzas_ordered_per_day FROM
5    (SELECT orders.order_date, sum(order_details.quantity) AS quantity
6    FROM orders JOIN order_details
7    ON orders.order_id = order_details.order_id
8    GROUP BY orders.order_date) AS Orders_quantity;
```

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

avg_pizzas_ordered_per_day
138

Determine the top 3 most ordered pizza types based on revenue

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

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

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.

```
3 •   SELECT pizza_types.category,
4     ROUND(SUM(order_details.quantity * pizzas.price) /
5     (SELECT ROUND(SUM(order_details.quantity * pizzas.price),2) FROM
6     order_details JOIN
7     pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100, 2) AS revenue
8     FROM pizza_types JOIN
9     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
0     JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
1     GROUP BY category ORDER BY revenue DESC;
```

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

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Thank you!

By Krishna Jain