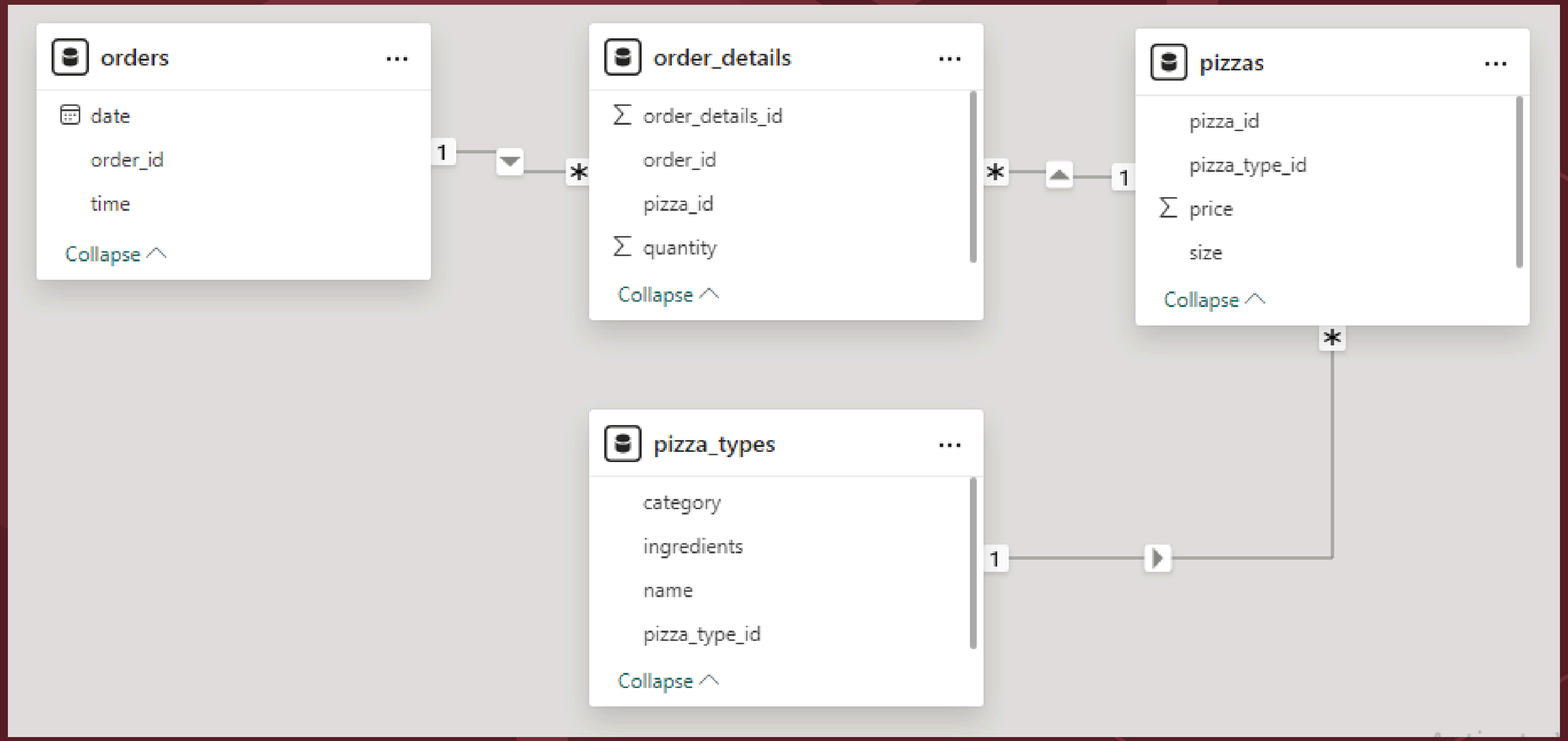
PIZZA SALES REPORT

I am Nithya. Here i utilized SQL queries to solve questions regarding pizza sales.

Data Modeling



AGENDA

01 Total orders

02 Total Revenue

03 Highest Priced Pizza

04 Most Common Pizza Ordered

05 Top most 5 ordered Pizza with quantity

06 Category vs quantity

07 Distribution of orders by hour

08 Category distribution

09 Average no of pizza ordered

10 Top most pizza ordered

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```sql
SELECT
    COUNT(*) AS total_orders
FROM
    pizzahut.orders;
```

Result Grid

	total_orders
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```sql
SELECT
    ROUND(SUM(quantity * price), 0) total_sales
FROM
    order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id;
```

Result Grid

total_sales
817860

IDENTIFY THE HIGHEST-PRICED PIZZA

```sql
SELECT
    p.*, name
FROM
    pizzahut.pizzas p
        JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
WHERE
    price = (SELECT
            MAX(price)
        FROM
            pizzas);
```

Result Grid | Filter Rows: | Export: | Wra

pizza_id	pizza_type_id	size	price	name
the_greek_xxl	the_greek	XXL	35.95	The Greek Pizza

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```sql
SELECT
    size, SUM(quantity) total_count
FROM
    pizzahut.order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
GROUP BY size
ORDER BY total_count DESC;
```

Result Grid Filte

size	total_count
L	18956
M	15635
S	14403
XL	552
XXL	28

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

```sql
SELECT
    name, SUM(quantity) total
FROM
    pizzahut.order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
        JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY name
ORDER BY total DESC
LIMIT 5;
```

Result Grid | Filter Rows:

name	total
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

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

```sql
SELECT
    category, SUM(quantity) qty
FROM
    pizzahut.order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
        JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY category
ORDER BY qty DESC;
```

Result Grid

category	qty
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
SELECT
    HOUR(time) AS hour, COUNT(order_id) count
FROM
    pizzahut.orders
GROUP BY hour;
```

Result Grid

hour	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.

```sql
SELECT
    category, COUNT(category) count
FROM
    pizzahut.pizza_types
GROUP BY category;
```

Result Grid

category	count
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

```sql
SELECT
    ROUND(AVG(quantity), 0) Average
FROM
    (SELECT
        date, SUM(quantity) quantity
    FROM
        pizzahut.order_details od
    JOIN orders o ON od.order_id = o.order_id
    GROUP BY date) AS sub;
```

Result Grid

	Average
▶	138

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

```sql
SELECT
    name, SUM(quantity * price) total
FROM
    pizzahut.order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY name
ORDER BY total DESC
LIMIT 3;
```

Result Grid | Filter Rows:

name	total
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.

```
SELECT
    category, CONCAT(ROUND(total / revenue * 100, 2), '%') percentage
FROM
    ((SELECT
        category, SUM(quantity * price) total
    FROM
        pizzahut.pizza_types pt
    JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN order_details od ON od.pizza_id = p.pizza_id
    GROUP BY category) sub, (SELECT
        SUM(quantity * price) revenue
    FROM
        pizzahut.pizza_types pt
    JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN order_details od ON od.pizza_id = p.pizza_id) new);
```

Result Grid | Filter Row

category	percentage
Classic	26.91%
Veggie	23.68%
Supreme	25.46%
Chicken	23.96%

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select date,sum(total) over(order by date) revenue
from(SELECT date,round(sum(quantity*price),2) total
from pizzahut.order_details od
join pizzas p on od.pizza_id=p.pizza_id
join orders o on od.order_id=o.order_id group by date) sub;
```

Result Grid | Filter Ro

date	revenue
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

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

```
select category,name from
(SELECT category,name,revenue,
rank() over(partition by category order by revenue desc) rnk from(
SELECT category,name,sum(quantity*price) revenue
FROM pizzahut.pizza_types pt join pizzas p
on pt.pizza_type_id=p.pizza_type_id
join order_details od on od.pizza_id=p.pizza_id
group by category,name) as sub) as newsub where rnk<=3;
```

Result Grid | Filter Rows:

category	name
Chicken	The Thai Chicken Pizza
Chicken	The Barbecue Chicken Pizza
Chicken	The California Chicken Pizza
Classic	The Classic Deluxe Pizza
Classic	The Hawaiian Pizza

THANK YOU