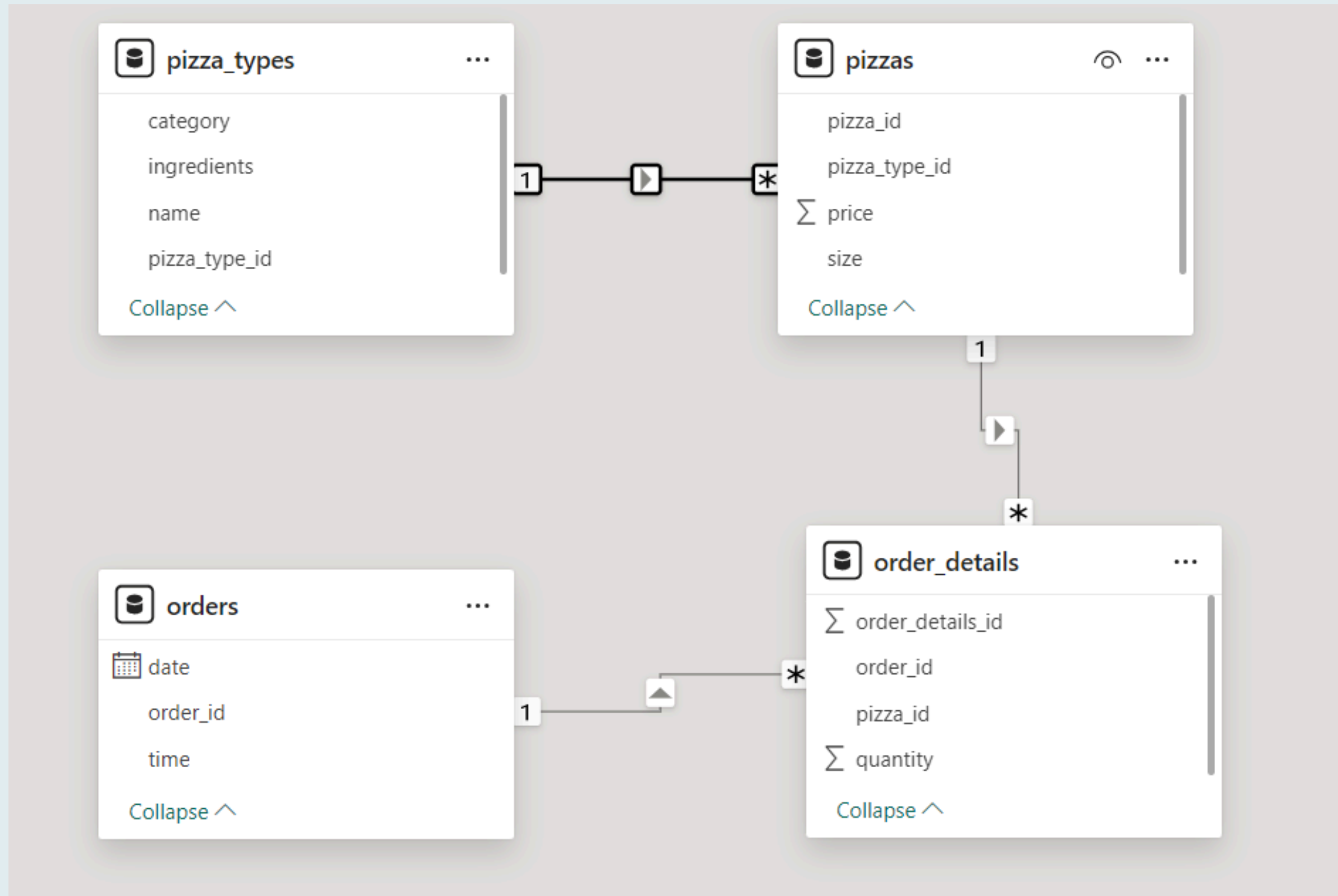






Pizza Sales Analysis using SQL

Data Model



Q1 - Retrieve the total number of orders placed.

```
3 • select count(order_id) as total_order from orders;
```

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

	total_order
▶	21350






Q2 - Calculate the total revenue generated from pizza sales.

```
3 • select round(sum(quantity*price),2) as total_revenue  
4   from order_details od join pizzas p  
5   on od.pizza_id = p.pizza_id;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
total_revenue					
817860.05					

Q3 - Identify the highest-priced pizza.

```
3 • SELECT
4     pt.name, p.price
5 FROM
6     pizzas p
7     JOIN
8     pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
9 ORDER BY price DESC
10 LIMIT 1;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 	Fetch rows: 
	name	price				
▶	The Greek Pizza	35.95				

Q4 - Identify the most common pizza size ordered.

```
3 • SELECT
4     size, COUNT(quantity) AS pizza_count
5 FROM
6     pizzas p
7     JOIN
8     order_details od ON p.pizza_id = od.pizza_id
9 GROUP BY size
10 ORDER BY pizza_count DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	size	pizza_count			
▶	L	18526			
	M	15385			
	S	14137			
	XL	544			
	XXL	28			

Q5 - List the top 5 most ordered pizza types along with their quantities.

```
3 • SELECT
4     pt.name, SUM(quantity) AS quantities
5 FROM
6     pizza_types pt
7     JOIN
8     pizzas p ON pt.pizza_type_id = p.pizza_type_id
9     JOIN
10    order_details od ON p.pizza_id = od.pizza_id
11 GROUP BY pt.name
12 ORDER BY quantities DESC
13 LIMIT 5;
```

	pizza_type_id	quantities
▶	classic_dlx	2416
	bbq_ckn	2372
	hawaiian	2370
	pepperoni	2369
	thai_ckn	2315

Q6 -Join the necessary tables to find the total quantity of each pizza category ordered.

```
3 • SELECT
4     pt.category, SUM(od.quantity) AS quantity
5 FROM
6     pizza_types pt
7     JOIN
8     pizzas p ON pt.pizza_type_id = p.pizza_type_id
9     JOIN
10    order_details od ON p.pizza_id = od.pizza_id
11 GROUP BY pt.category
12 ORDER BY quantity DESC;
```

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

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Q7 - Determine the distribution of orders by hour of the day.

```
3 • SELECT
4     HOUR(order_time) AS hour, COUNT(order_id) AS order_count
5 FROM
6     orders
7 GROUP BY hour
8 ORDER BY order_count DESC;
```

	hour	order_count
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1

Q8 - Join relevant tables to find the category-wise distribution of pizzas.

```
4 • SELECT
5     category, COUNT(name) AS count
6 FROM
7     pizza_types
8 GROUP BY category;
```

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

	category	count
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Q9 - Group the orders by date and calculate the average number of pizzas ordered per day.

```
3
4 • SELECT
5     ROUND(AVG(total_pizzas), 0) as avg_order
6 FROM
7     (SELECT
8         o.order_date, SUM(quantity) AS total_pizzas
9     FROM
10        orders o
11     JOIN order_details od ON o.order_id = od.order_id
12     GROUP BY o.order_date) AS order_quantity;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	avg_order
.	138



Q10 - Determine the top 3 most ordered pizza types based on revenue.

```
3 • SELECT
4     pt.name, SUM(od.quantity * p.price) AS total_revenue
5 FROM
6     pizza_types pt
7     JOIN
8     pizzas p ON pt.pizza_type_id = p.pizza_type_id
9     JOIN
10    order_details od ON p.pizza_id = od.pizza_id
11 GROUP BY pt.name
12 ORDER BY total_revenue DESC
13 LIMIT 3;
```

name	total_revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

Q11- Calculate the percentage contribution of each pizza type to total revenue.


```
3 • SELECT
4     pt.category,
5     concat(round((SUM(od.quantity * p.price) / (SELECT
6         ROUND(SUM(quantity * price), 2) AS total_revenue
7         FROM
8         order_details od
9         JOIN
10        pizzas p ON od.pizza_id = p.pizza_id)) * 100,
11        2), "%") AS total_revenue
12 FROM
13     pizza_types pt
14     JOIN
15     pizzas p ON pt.pizza_type_id = p.pizza_type_id
16     JOIN
17     order_details od ON p.pizza_id = od.pizza_id
18 GROUP BY pt.category
19 ORDER BY total_revenue DESC;
```

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

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

Q12- Analyze the cumulative revenue generated over time.

```
2
3 •   select order_date, round(sum(revenue) over(order by order_date),2) as cum_revenue
4   from
5   (select o.order_date, sum(od.quantity*p.price) as revenue from
6    orders o join order_details od
7    on o.order_id = od.order_id
8    join pizzas p on od.pizza_id = p.pizza_id
9    group by o.order_date) as sales;
```

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

	order_date	cum_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
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.35

Q13- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
2
3 • select name, revenue from
4 (select category, name, revenue, rank() over(partition by category order by revenue desc) as rn
5 from
6 (select pt.category, pt.name, round(sum(od.quantity*p.price),2) as revenue
7 from pizza_types pt join pizzas p
8 on pt.pizza_type_id = p.pizza_type_id
9 join order_details od
10 on p.pizza_id = od.pizza_id
11 group by pt.category, pt.name) as a ) as b
12 where rn <=3;
```

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

name	revenue
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75

Result Grid
Form Editor

Thank you
for Reading!