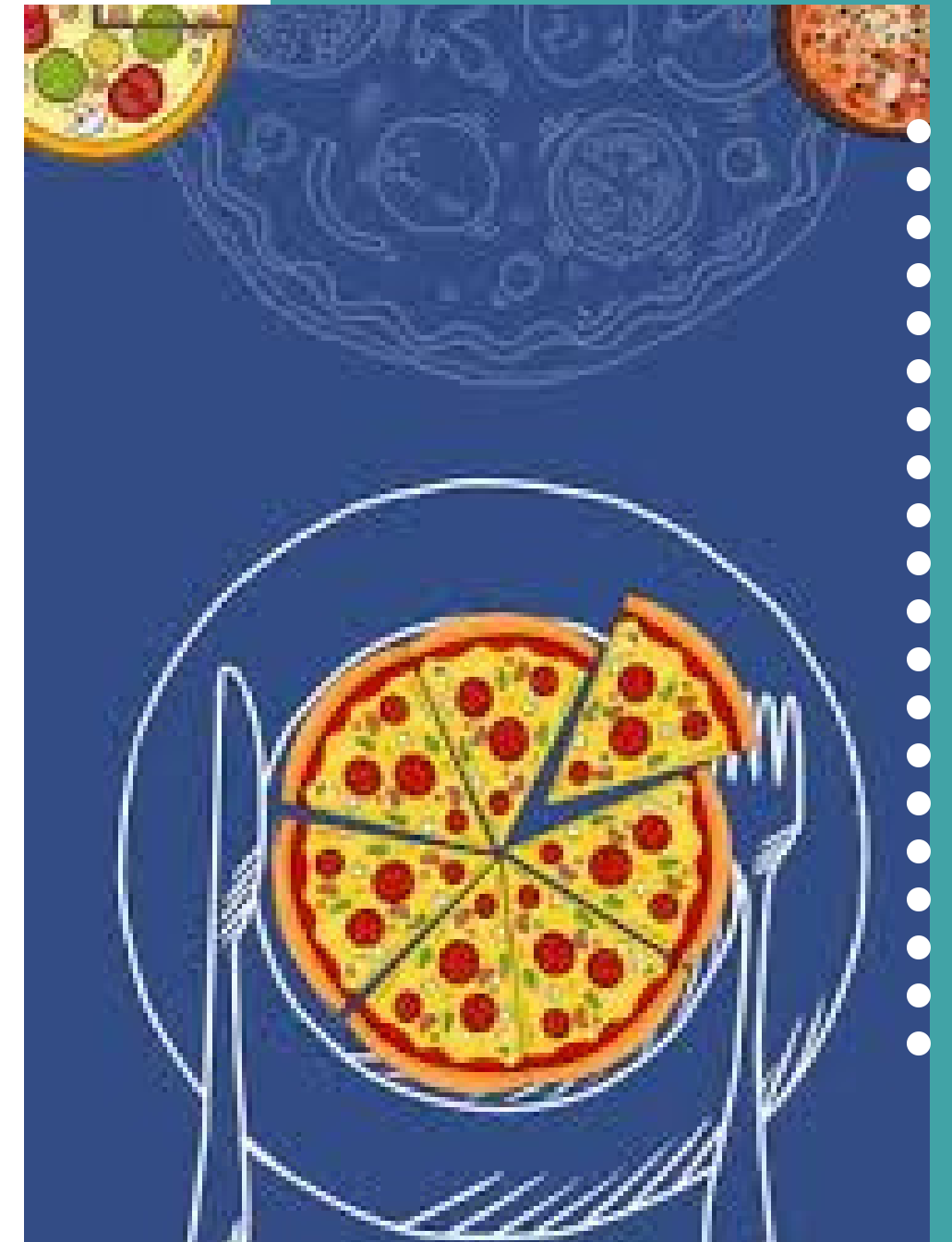
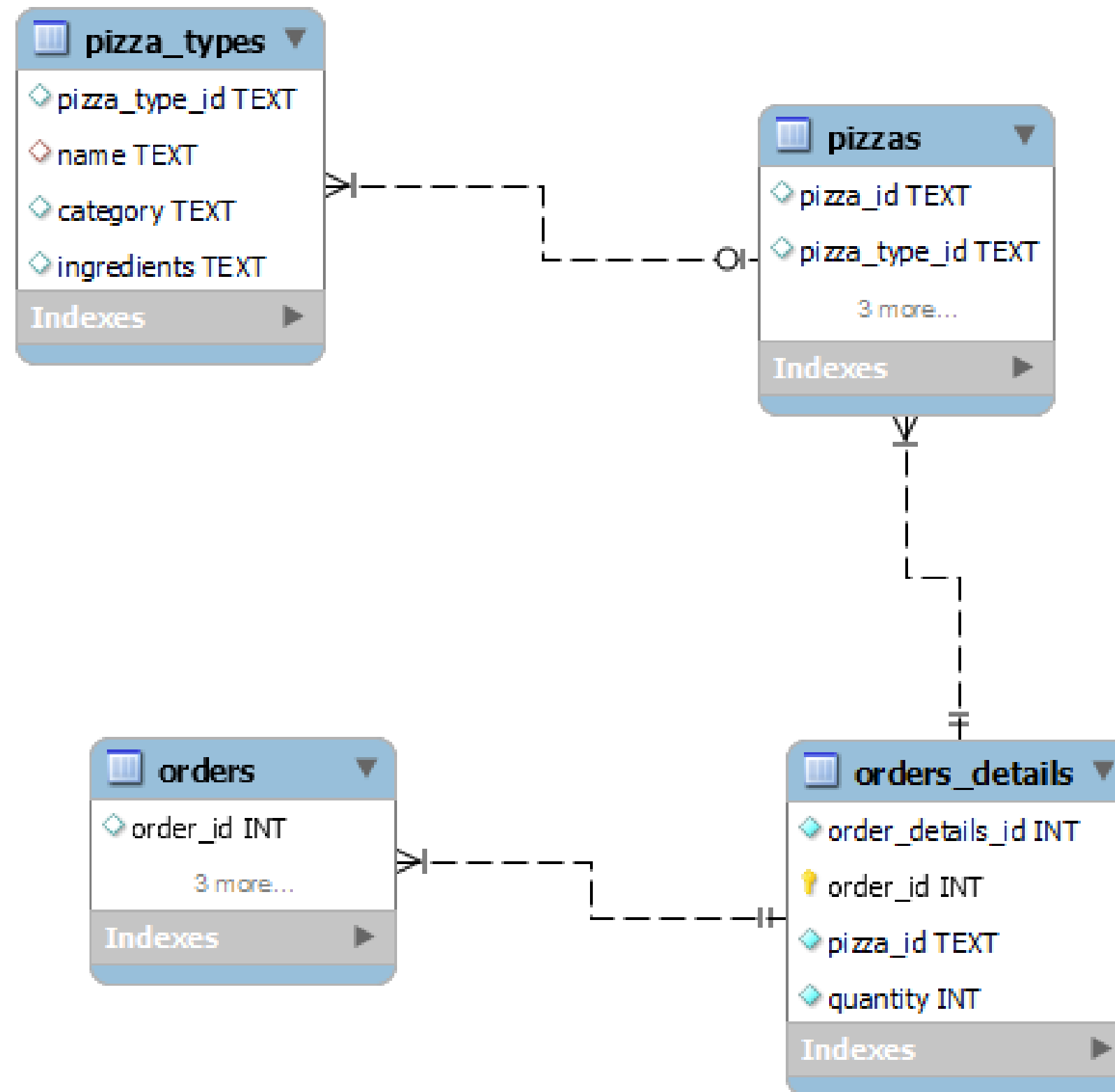


# PIZZA SALES ANALYSIS USING SQL



# Data Model



# Q1. Retrieve the total no.of orders placed.

```
select count(order_id) as total_orders from orders;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	total_orders			
▶	34610			

## Q2. Calculate the total revenue generated from pizza sales.

Select

```
round(Sum(orders_details.quantity*pizzas.price),2) as total_revenue
```

```
from orders_details
```

```
join
```

```
pizzas
```

```
on
```

```
pizzas.pizza_id=orders_details.pizza_id
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	total_revenue			
▶	217762.2			





### Q3. Identify the highest-priced pizza.

```
select pizza_types.name,pizzas.price
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
order by pizzas.price desc limit 1;
```

Result Grid			Filter Rows:	
	name	price		
▶	The Greek Pizza	35.95		

## Q4. Identify the most common pizza size ordered.

```
-- Most common pizza size ordered
select pizzas.size, count(orders_details.order_details_id) as order_count
from pizzas join orders_details
on pizzas.pizza_id=orders_details.pizza_id
group by pizzas.size
order by order_count desc limit 1;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 	Fetch rows:
	size	order_count				
▶	L	4819				

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

```
##list 5 most ordered pizzas along with their quantities
select pizza_types.name,
Sum(orders_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id=pizzas.pizza_id
group by pizza_types.name order by quantity limit 5;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	name	quantity				
	The Spinach Supreme Pizza	115				
	The Spinach Pesto Pizza	130				
	The Soppressata Pizza	157				
	The Greek Pizza	164				
▶	The Vegetables + Vegetables Pizza	168				

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

```
## Join the necessary tables to find the total quantity of each pizza category ordered.  
Select pizza_types.category,  
Sum(orders_details.quantity) as quantity  
from pizza_types join pizzas  
on pizza_types.pizza_type_id=pizzas.pizza_type_id  
join orders_details  
on orders_details.pizza_id=pizzas.pizza_id  
group by pizza_types.category  
order by quantity desc;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	category	quantity			
▶	Classic	4156			
	Chicken	3818			
	Veggie	2714			
	Supreme	2537			



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

```
Select hour(time) as hour, count(order_id) as order_count from orders
group by hour(time);
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	hour	order_count			
▶	11	1983			
	12	4067			
	13	3952			
	14	2439			
	15	2390			
	16	3110			
	17	3823			
	18	3890			
	19	3242			
	20	2655			
	21	1933			
	22	1066			
	23	45			
	10	14			
	9	1			

Result 10 ×

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

#JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE

```
Select category,count(name) from pizza_types
```

```
group by category
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	category	count(name)			
▶	Chicken	6			
	Classic	8			
	Supreme	9			
	Veggie	9			

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

```
SELECT avg(quantity) from
(select orders.date, sum(orders_details.quantity) as quantity from orders
Join orders_details
on orders.order_id=orders_details.order_id
group by orders.date
) as order_quantity;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	avg(quantity)			
▶	121.8894			

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


```
Select  pizza_types.name,  
orders_details.quantity*price as revenue  
from pizza_types join pizzas  
on pizzas.pizza_type_id=pizza_types.pizza_type_id  
join orders_details  
on orders_details.pizza_id=pizzas.pizza_id  
order by revenue desc limit 3
```


Result Grid			Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	name	revenue				
▶	The Barbecue Chicken Pizza	50.25				
	The Big Meat Pizza	48				
	The Brie Carre Pizza	47.3				


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


```
SELECT
  pizza_types.category,
  ROUND(
    SUM(orders_details.quantity * pizzas.price) /
    (
      SELECT ROUND(SUM(orders_details.quantity * pizzas.price), 2)
      FROM orders_details
      JOIN pizzas ON pizzas.pizza_id = orders_details.pizza_id
    ) * 100,
  2) AS revenue_percentage
FROM pizza_types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue_percentage DESC;
```

Result Grid



 Filter Rows:

Export: 

Wrap Cell Content: 

	category	revenue_percentage
▶	Chicken	30.87
	Classic	27.43
	Veggie	21.01
	Supreme	20.69

## Q12. Analyze the cumulative revenue generated over time.

```
SELECT
    date,
    round(SUM(revenue) OVER (ORDER BY date),2) AS cum_revenue
FROM (
    SELECT
        orders.date,
        round( SUM(orders_details.quantity * pizzas.price),2) AS revenue
    FROM orders_details
    JOIN pizzas ON orders_details.pizza_id = pizzas.pizza_id
    JOIN orders ON orders.order_id = orders_details.order_id
    GROUP BY orders.date
) AS sales;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	date	cum_revenue			
▶	2015-01-01	2272.7			
	2015-01-02	4491.7			
	2015-01-03	6749.7			
	2015-01-04	8520.3			
	2015-01-05	10318.2			
	2015-01-06	12464.6			
	2015-01-07	14390.5			
	2015-01-08	16704.8			
	2015-01-09	18773.7			
	2015-01-10	21002.3			
	2015-01-11	22683.9			
	2015-01-12	24447.5			
	2015-01-13	26063.3			
	2015-01-14	28297.3			
	2015-01-15	30253.4			

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

```
select name , revenue from
(Select category,name,revenue,
rank() over(partition by category order by revenue desc) as rn
from
(Select pizza_types.category, pizza_types.name,
sum(orders_details.quantity*pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id=pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn<=3;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Cor
	name	revenue			
▶	The Barbecue Chicken Pizza	25750.5			
	The California Chicken Pizza	18307			
	The Chicken Alfredo Pizza	6767.25			
	The Classic Deluxe Pizza	14173			
	The Big Meat Pizza	12264			
	The Hawaiian Pizza	8922.25			
	The Italian Supreme Pizza	8670.25			
	The Calabrese Pizza	7665.25			
	The Brie Carre Pizza	5392.19999999999925			
	The Four Cheese Pizza	10924.25000000000035			
	The Five Cheese Pizza	9472			
	The Mexicana Pizza	5861			



Thank You

