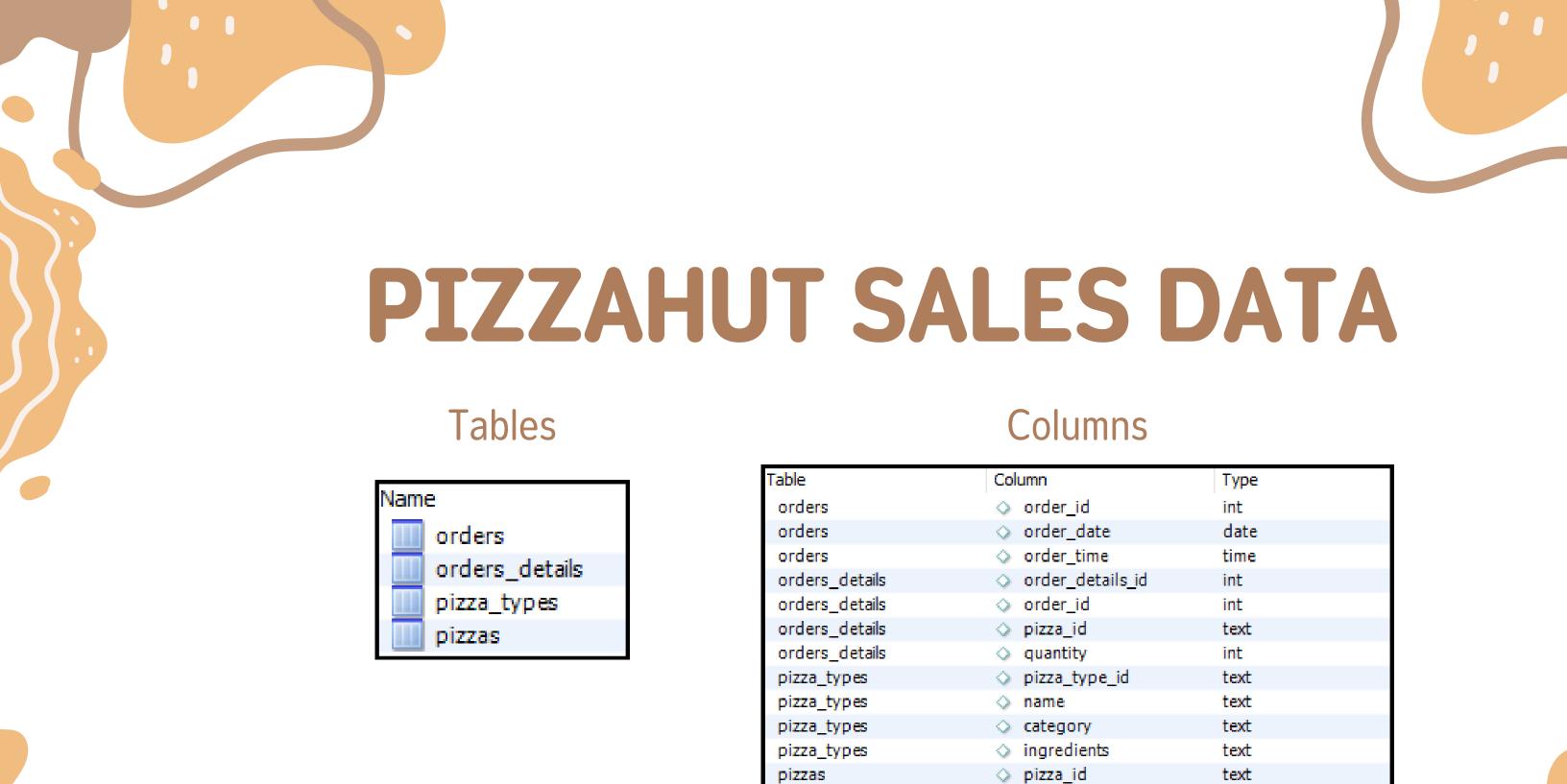




Portfolio Project By

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pizzas

pizzas

pizzas

pizza\_type\_id

size

price

text

text

double





#### Basic:

- Q1 Retrieve the total number of orders placed.
- Q2 Calculate the total revenue generated from pizza sales.
- Q3 Identify the highest-priced pizza.
- Q4 Identify the most common pizza size ordered.
- Q5 List the top 5 most ordered pizza types along with their quantities.

#### **Intermediate:**

- Q1 Join the necessary tables to find the total quantity of each pizza category ordered.
- Q2 Determine the distribution of orders by hour of the day.
- Q3 Join relevant tables to find the category-wise distribution of pizzas.
- Q4 Group the orders by date and calculate the average number of pizzas ordered per day.
- Q5 Determine the top 3 most ordered pizza types based on revenue.

#### **Advanced:**

- Q1 Calculate the percentage contribution of each pizza type to total revenue.
- Q2 Analyze the cumulative revenue generated over time.
- Q3 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Q1 - Retrieve the total number of orders placed.

### Query

- SELECT
- 2 COUNT(order\_id) AS total\_orders
- 3 FROM
- 4 orders;

Re	Result Grid			
	total_orders			
•	21350			







Q2 - Calculate the total revenue generated from pizza sales.

### Query:

Re	sult Grid 📗 🙌
total_revenue	
•	817860.05



Q3 - Identify the highest-priced pizza.

### Query:

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

Re	sult Grid 📗 🐧	Filter Rows:		Export	t: 📳   Wı
	name	pizza_id	pizza_type_id	size	price
<b>&gt;</b>	The Greek Pizza	the_greek_xxl	the_greek	XXL	35.95

Q4 - Identify the most common pizza size ordered.

### Query:

```
p.size, SUM(od.quantity) AS order_quantity

FROM
orders_details od

JOIN
pizzas p ON p.pizza_id = od.pizza_id

GROUP BY p.size

ORDER BY order_quantity DESC

LIMIT 1;
```

Re	sult Grid		43	Filter F
	size	order	_quan	ntity
<b>&gt;</b>	L	18956		





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

#### Query:

```
pt.name, SUM(od.quantity) AS total_quantity

pt.name, SUM(od.quantity) AS total_quantity

FROM

pizza_types pt

JOIN

pizzas p ON p.pizza_type_id = pt.pizza_type_id

JOIN

orders_details od ON od.pizza_id = p.pizza_id

GROUP BY pt.name

ORDER BY total_quantity DESC

LIMIT 5;
```

Re	Result Grid				
	name	total_quantity			
<b>&gt;</b>	The Classic Deluxe Pizza	2453			
	The Barbecue Chicken Pizza	2432			
	The Hawaiian Pizza	2422			
	The Pepperoni Pizza	2418			
	The Thai Chicken Pizza	2371			



Q1 - Join the necessary tables to find the total quantity of each pizza category ordered.

#### Query:

```
pt.category, SUM(od.quantity) AS total_quantity

pt.category, SUM(od.quantity) AS total_quantity

FROM

pizza_types pt

JOIN

pizzas p ON p.pizza_type_id = pt.pizza_type_id

JOIN

orders_details od ON od.pizza_id = p.pizza_id

GROUP BY pt.category

ORDER BY total_quantity DESC;
```

Result Grid   1		
	category	total_quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Q2 - Determine the distribution of orders by hour of the day.

#### Query:

```
1 • SELECT
2     HOUR(order_time) AS hour, COUNT(order_id) AS total_orders
3     FROM
4     orders
5     GROUP BY hour
```

#### Result:

Re	sult Grid	I 🔡 🙌 Filb
	hour	total_orders
•	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28



ORDER BY hour ASC;

Q3 - Join relevant tables to find the category-wise distribution of pizzas.

#### Query:

```
pt.category, SUM(od.quantity) AS qty_sold

FROM

pizza_types pt

join

pizzas p ON p.pizza_type_id = pt.pizza_type_id

join

orders_details od ON od.pizza_id = p.pizza_id

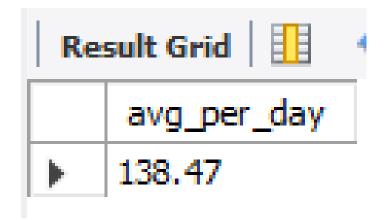
GROUP BY pt.category;
```

Re	sult Grid	Filte
	category	qty_sold
•	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050



Q4 - Group the orders by date and calculate the average number of pizzas ordered per day.

#### Query:





Q5 - Determine the top 3 most ordered pizza types based on revenue.

#### Query:

```
pt.name, SUM(p.price * od.quantity) AS revenue
pt.name, SUM(p.price * od.quantity) AS revenue
prizza_types pt

JOIN
pizzas p ON p.pizza_type_id = pt.pizza_type_id

JOIN
orders_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY revenue DESC

LIMIT 3;
```

Result Grid Filter Rows:				
	name	revenue		
<b>&gt;</b>	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		



### ADVANCED

Q1 - Calculate the percentage contribution of each pizza type to total revenue.

Query:

```
SELECT
           pt.name,
           ROUND((SUM(p.price * od.quantity) / (SELECT
                   SUM(od.quantity * p.price)
                   orders_details od
                   pizzas p ON p.pizza_id = od.pizza_id) * 100),2) AS per_revenue
 8
       FROM
           pizza_types pt
10
               JOIN
11
           pizzas p ON p.pizza_type_id = pt.pizza_type_id
12
13
           orders_details od ON od.pizza_id = p.pizza_id
14
       GROUP BY pt.name
15
       ORDER BY per_revenue DESC;
16
```

name	per_revenue
The Thai Chicken Pizza	5.31
The Barbecue Chicken Pizza	5.23
The California Chicken Pizza	5.06
The Classic Deluxe Pizza	4.67
The Spicy Italian Pizza	4.26
The Southwest Chicken Pizza	4.24
The Italian Supreme Pizza	4.09
The Hawaiian Pizza	3.95
The Four Cheese Pizza	3.95
The Sicilian Pizza	3.78
The Pepperoni Pizza	3.69
The Greek Pizza	3.48
The Mexicana Pizza	3.27
The Five Cheese Pizza	3.19
The Pepper Salami Pizza	3.12
The Italian Capocollo Pizza	3.07
The Vegetables + Vegetable	2.98
The Prosciutto and Arugula	2.96
The Napolitana Pizza	2.95
The Spinach and Feta Pizza	2.85
The Big Meat Pizza	2.81
The Pepperoni, Mushroom,	2.3
The Chicken Alfredo Pizza	2.07
The Chicken Pesto Pizza	2.04
The Soppressata Pizza	2.01
The Italian Vegetables Pizza	1.96
The Calabrese Pizza	1.95
The Spinach Pesto Pizza	1.91
The Mediterranean Pizza	1.88
The Spinach Supreme Pizza	1.87
The Green Garden Pizza	1.71
The Brie Carre Pizza	1.42

### ADVANCED

Q2 - Analyze the cumulative revenue generated over time.

#### Query:

```
SELECT order_date, round(sum(revenue) over (order by order_date),2) as cum_revenue
FROM

(
SELECT orders.order_date, SUM(pizzas.price * orders_details.quantity) AS revenue
FROM orders
ON orders_details
ON orders_details.order_id = orders.order_id
JOIN pizzas
ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY orders.order_date
)
as sq3;
```

Re	esult Grid	Filter Rows:	
	order_date	cum_revenue	
١	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	- 11
	2015-01-08	19399.05	לא
	2015-01-09	21526.4	V
	2015-01-10	23990.35	•



### ADVANCED

Q3 - Determine the top 3 most ordered pizza types based on revenue for each pizza category.

#### Query:

```
(Select category, name, revenue, (RANK() over (Partition by category order by revenue)) as Ranked
               FROM
               (SELECT pt.category, pt.name, ROUND(SUM(od.quantity * p.price),2) as revenue
5
                   FROM pizza_types pt
                       JOIN pizzas p
                           ON p.pizza_type_id = pt.pizza_type_id
9
                       JOIN orders details od
10
                           ON od.pizza_id = p.pizza_id
11
                       GROUP BY pt.category, pt.name
12
                       ORDER BY pt.category, revenue DESC, pt.name
13
               ) a
14
       WHERE ranked <= 3;
```

	category	name	revenue	Ranked
•	Chicken	The Chicken Pesto Pizza	16701.75	1
	Chicken	The Chicken Alfredo Pizza	16900.25	2
	Chicken	The Southwest Chicken Pizza	34705.75	3
	Classic	The Pepperoni, Mushroom, and Peppers Pizza	18834.5	1
	Classic	The Big Meat Pizza	22968	2
	Classic	The Napolitana Pizza	24087	3
	Supreme	The Brie Carre Pizza	11588.5	1
	Supreme	The Spinach Supreme Pizza	15277.75	2
	Supreme	The Calabrese Pizza	15934.25	3
	Veggie	The Green Garden Pizza	13955.75	1
	Veggie	The Mediterranean Pizza	15360.5	2
	Veggie	The Spinach Pesto Pizza	15596	3



