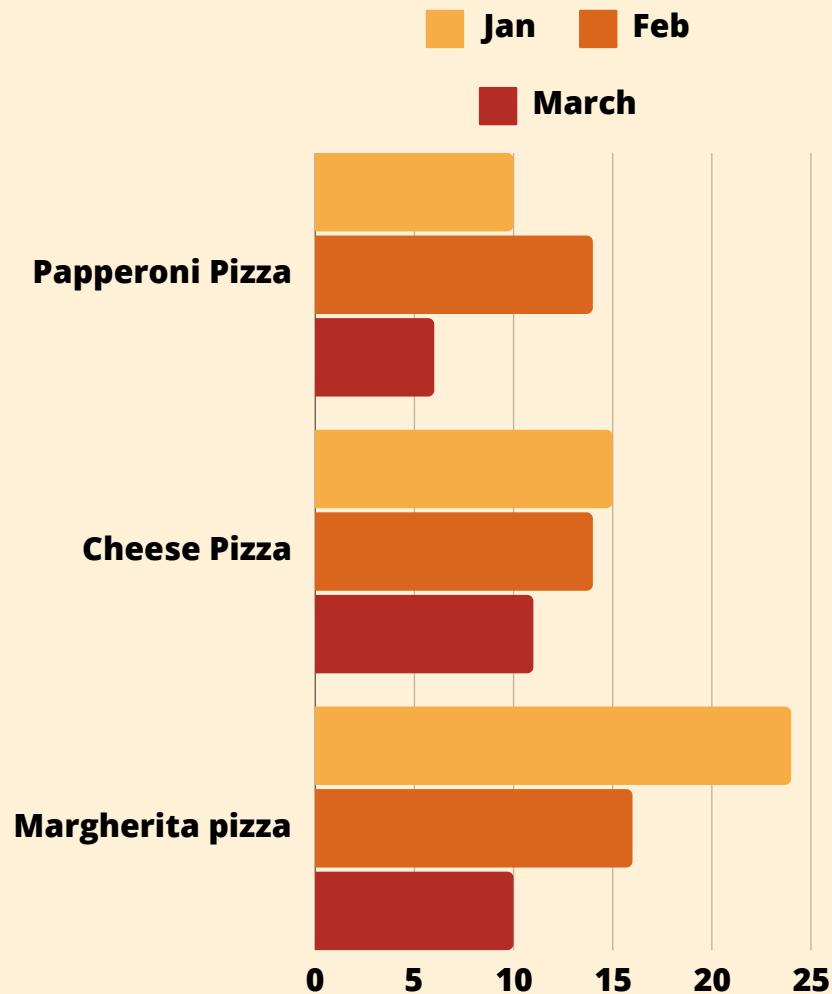


PIZZA SALES SQL ANALYSIS

Solutions to Common
Business Queries

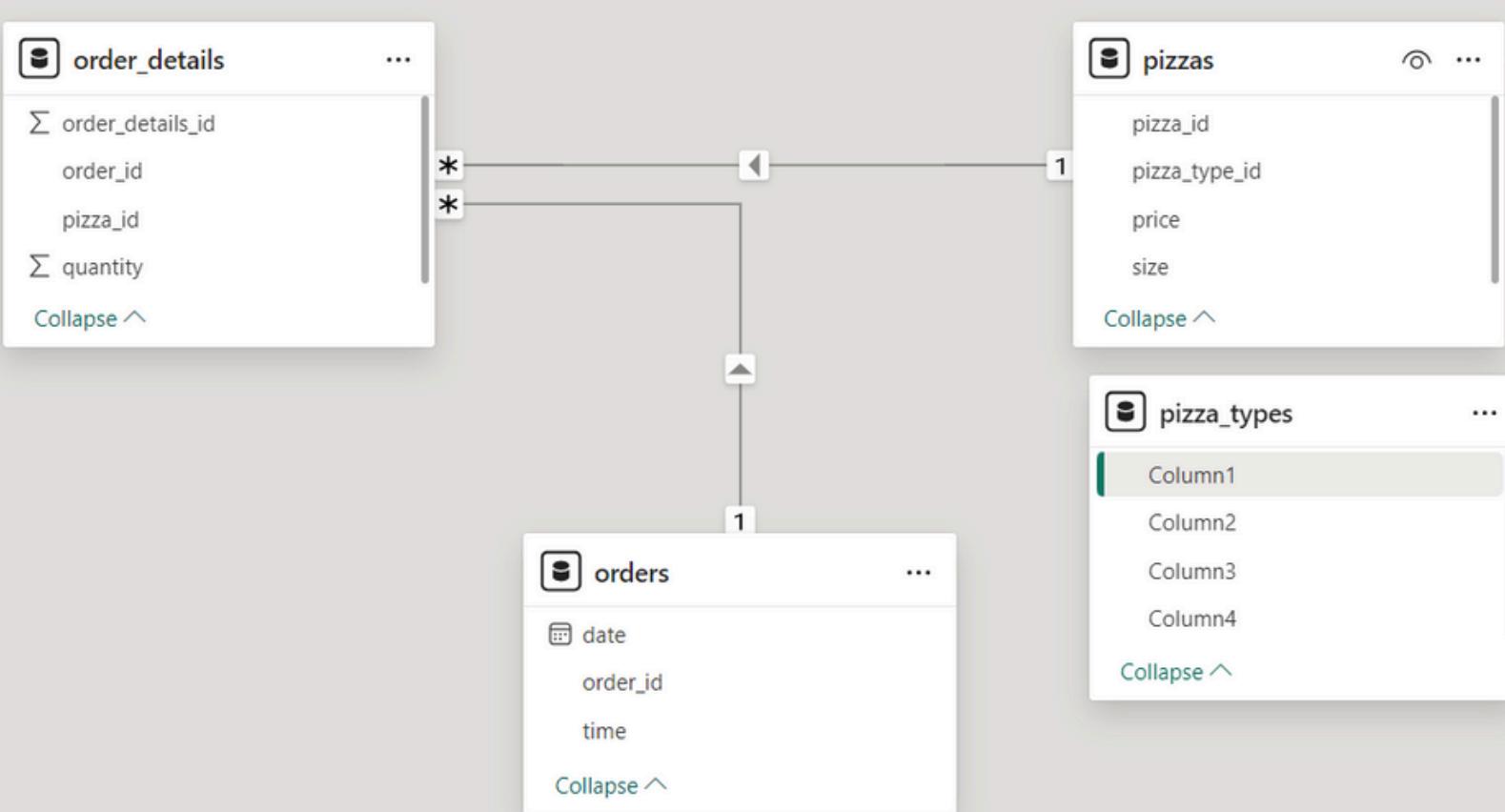
PRESENTED BY
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INTRODUCTION

- Analysis of pizza sales data using SQL.
- Addressing various business-related questions to derive meaningful insights.

SCHEMA



pizza_sales x SQL File 6*

```
1 • CREATE DATABASE pizzahut;
2 • USE pizzahut;
3 • create table orders (
4     order_id int not null, order_date date not null, order_time time not null, primary key (order_id) );
5 • SELECT * FROM orders;
6
7 • create table order_details ( order_details_id int not null, order_id int not null,
8     pizza_id text not null,
9     quantity int not null,
10    primary key (order_details_id) );
11 • SELECT * FROM order_details;
12
13
```

result Grid | Filter Rows: _____ | Edit: Export/Import: Wrap Cell Content: Fetch rows:

order_id	order_date	order_time
1	2015-01-01	11:38:36
2	2015-01-01	11:57:40
3	2015-01-01	12:12:28
4	2015-01-01	12:16:31
5	2015-01-01	12:21:30

orders 4 x

QUERY 1:

pizza_sales SQL File 6 X

1

2 -- Retrieve the total number of orders placed.

3 • select count(order_id) as total_orders from orders;

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

	total_orders
▶	21350

QUERY 2:

The screenshot shows a MySQL Workbench interface. The top navigation bar includes tabs for 'za_sales', 'sol_1', 'pizza_types', 'orders', 'order_details', 'pizzas', and 'sol_2'. The 'sol_2' tab is active. Below the tabs is a toolbar with various icons for database management. The main area contains a SQL query:

```
1 -- Calculate the total revenue generated from pizza sales.
2 • SELECT
3     ROUND(SUM(order_details.quantity * pizzas.price)),
4         2) AS total_sales
5 FROM
6     order_details
7     JOIN
8         pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

The results grid at the bottom shows one row with the column 'total_sales' containing the value '817860.05'.

total_sales
817860.05

QUERY 3:

```
1      -- Identify the highest-priced pizza.  
2 •  SELECT  
3      pizza_types.name, pizzas.price  
4  FROM  
5      pizza_types  
6          JOIN  
7      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
8  ORDER BY pizzas.price DESC  
9  LIMIT 1;
```

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

	name	price
▶	The Greek Pizza	35.95

QUERY 4:

```
1      -- Identify the most common pizza size ordered.  
2 •  SELECT  
3      pizzas.size,  
4      COUNT(order_details.order_details_id) AS order_count  
5  FROM  
6      pizzas  
7      JOIN  
8          order_details ON pizzas.pizza_id = order_details.pizza_id  
9  GROUP BY pizzas.size  
10 ORDER BY order_count DESC;
```

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

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

QUERY 5:

```
2
3      -- List the top 5 most ordered pizza types along with their quantities.
4 •  SELECT
5          pizza_types.name, SUM(order_details.quantity) AS quantity
6      FROM
7          pizza_types
8              JOIN
9                  pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10             JOIN
11                 order_details ON order_details.pizza_id = pizzas.pizza_id
12             GROUP BY pizza_types.name
13             ORDER BY quantity DESC
14             LIMIT 5;
```

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

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

Result 1

QUERY 6:

```
1      -- join the necessary tables to to find the total quantity of each pizza category ordered.  
2  
3 • SELECT  
4      pizza_types.category,  
5      SUM(order_details.quantity) AS quantity  
6  FROM  
7      pizza_types  
8          JOIN  
9      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
10         JOIN  
11     order_details ON order_details.pizza_id = pizzas.pizza_id  
12     GROUP BY pizza_types.category|  
13     ORDER BY quantity DESC;
```

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

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

QUERY 7:

```
1
2      -- Determine the distribution of orders by hour of the day.
3 •  SELECT
4          HOUR(order_time), COUNT(order_id)
5  FROM
6      orders
7  GROUP BY HOUR(order_time);
```

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

	hour(order_time)	count(order_id)
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468

Result 1 ×

QUERY 8:

```
1
2      -- Join relevant tables to find the category-wise distribution of pizzas.
3 • SELECT
4          category, COUNT(name)
5      FROM
6          pizza_types
7      GROUP BY category
```

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

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

QUERY 9:

```
1
2      -- Group the orders by date and calculate the average
3      -- number of pizzas ordered per day.
4 •   SELECT
5          AVG(quantity)
6      FROM
7      (
8          SELECT
9              orders.order_date, SUM(order_details.quantity) AS quantity
10         FROM
11             orders
12             JOIN order_details ON orders.order_id = order_details.order_id
13         GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	avg(quantity)			
▶	138.4749			

QUERY 10:

```
2      -- Determine the top 3 most ordered pizza types based on revenue.  
3 •  SELECT  
4      pizza_types.name,  
5      SUM(order_details.quantity * pizzas.price) AS revenue  
6  FROM  
7      pizza_types  
8          JOIN  
9      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
10         JOIN  
11     order_details ON order_details.pizza_id = pizzas.pizza_id  
12     GROUP BY pizza_types.name  
13     ORDER BY revenue DESC  
14     LIMIT 3;
```

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

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

QUERY 11:

```
1  -- calculate the percentage contribution of each
2  -- pizza type to total revenue.
3 • select pizza_types.category,
4   round(sum(order_details.quantity*pizzas.price) / (SELECT ROUND(SUM(order_details.quantity* pizzas.price),
5   2) AS total_sales
6   FROM
7   order_details
8   JOIN
9   pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2) as revenue from pizza_types join pizzas
10  on pizza_types.pizza_type_id = pizzas.pizza_type_id
11  join order_details
12  on order_details.pizza_id = pizzas.pizza_id
13  group by pizza_types.category order by revenue desc;
```

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

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

QUERY 12:

```
1      -- analyze the cumulative revenue generated over time.  
2 •  select order_date,  
3        sum(revenue) over (order by order_date) as cum_revenue  
4    from  
5    (select orders.order_date,  
6      sum(order_details.quantity* pizzas.price) as revenue from order_details join pizzas  
7      on order_details.pizza_id = pizzas.pizza_id join orders  
8      on orders.order_id = order_details.order_id group by orders.order_date) as sales;
```

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

	order_date	cum_revenue
▶	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	...	

QUERY 13:

```
1 -- Determine the top 3 most ordered pizza types
2 -- based on revenue for each pizza category.
3 • select name, revenue from
4   (select category, name, revenue,
5    rank() over(partition by category order by revenue desc) as rn from
6   (select pizza_types.category, pizza_types.name,
7    sum((order_details.quantity) * pizzas.price) as revenue from pizza_types join pizzas
8    on pizza_types.pizza_type_id = pizzas.pizza_type_id join order_details
9    on order_details.pizza_id = pizzas.pizza_id
10   group by pizza_types.category, pizza_types.name) as a) as b
11  where rn <= 3;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	name	revenue		
▶	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	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		

THANKYOU!!