

Slide 1: Title Slide

- **Title:** Pizza Sale Data Analysis
- **Subtitle:** Insights from Our Pizza Sales Data


Slide 2: Agenda

- **Content:** Outline the key points that will be covered in the presentation:
 - Basic Queries
 - Intermediate Queries
 - Advanced Queries
 - Summary and Insights

Slide 3: Query 1

- **Heading:** Total Number of Orders Placed

```
1  -- Retrieve the total number of orders placed.  
2  
3 • select count(order_id) as total_orders from orders;
```

Result Grid 	
	total_orders
▶	21350

Slide 4: Query 2

- **Heading:** Total Revenue Generated from Pizza Sales

```
1  -- Calculate the total revenue generated from pizza sales.
2
3
4  • SELECT
5      ROUND(SUM(order_details.quantity * pizzas.price),
6             2) AS total_sale
7  FROM
8      order_details
9      JOIN
10     pizzas ON pizzas.pizza_id = order_details.pizza_id;
11
```

Result Grid	
	total_sale
▶	817860.05

Slide 5: Query 3

- **Heading:** Highest-Priced Pizza

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

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

Slide 6: Query 4

- **Heading:** Most Common Pizza Size Ordered

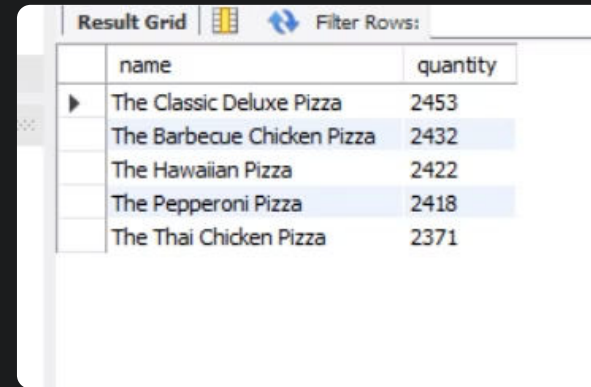
```
1  -- Identify the most common pizza size ordered.
2
3
4  • SELECT
5      pizzas.size,
6      COUNT(order_details.order_details_id) AS order_count
7  FROM
8      pizzas
9      JOIN
10     order_details ON pizzas.pizza_id = order_details.pizza_id
11  GROUP BY pizzas.size
12  ORDER BY order_count DESC;
13
14
```

Result Grid			Filter Rows:
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

Slide 7: Query 5

- **Heading:** Top 5 Most Ordered Pizza Types

```
1  -- List the top 5 most ordered pizza types
2  -- along with their quantities.
3
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;
15
```



The screenshot shows a database interface with a 'Result Grid' tab selected. The grid displays the results of the SQL query, showing the top 5 most ordered pizza types by quantity. The columns are 'name' and 'quantity'. The rows are: 'The Classic Deluxe Pizza' (2453), 'The Barbecue Chicken Pizza' (2432), 'The Hawaiian Pizza' (2422), 'The Pepperoni Pizza' (2418), and 'The Thai Chicken Pizza' (2371). The first two rows are highlighted in blue.

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

Slide 8: Query 6

- **Heading:** Total Quantity of Each Pizza Category Ordered


```
1  -- Join the necessary tables 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;
14
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Slide 9: Query 7

- **Heading:** Distribution of Orders by Hour of the Day

```
1  -- Determine the distribution of orders by hour of the day.
2
3  • SELECT
4      HOUR(order_time) AS hour, COUNT(order_id) AS order_count
5  FROM
6      orders
7  GROUP BY hour;
8
9
```

Result Grid		 Filter Rows:
	hour	order_count
▶	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
	10	8
	9	1

Slide 10: Query 8

- **Heading:** Category-wise Distribution of Pizzas

```
1  -- Join relevant tables to find the category-wise distribution of pizzas.
2
3  • SELECT
4      category, COUNT(pizza_type_id) AS quantity
5  FROM
6      pizza_types
7  GROUP BY category
8  ORDER BY quantity DESC;
9
10
```

Result Grid			Filter Rows:
	category	quantity	
▶	Supreme	9	
	Veggie	9	
	Classic	8	
	Chicken	6	

Slide 11: Query 9

- **Heading:** Average Number of Pizzas Ordered Per Day



```
1  -- Group the orders by date and calculate the average number of pizzas
2  -- ordered per day.
3
4  • SELECT
5      ROUND(AVG(quantity), 0) AS avg_pizza_order_per_day
6  FROM
7      (SELECT
8          orders.order_date, SUM(order_details.quantity) AS quantity
9      FROM
10         orders
11      JOIN order_details ON orders.order_id = order_details.order_id
12      GROUP BY orders.order_date) AS order_quantity;
13
```

Result Grid		Filter Rows:
	avg_pizza_order_per_day	
▶	138	

Slide 12: Query 10

- **Heading:** Top 3 Most Ordered Pizza Types Based on Revenue

```
1  -- determine the top 3 most ordered pizza types based on revenue.
2
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;
15
16
```

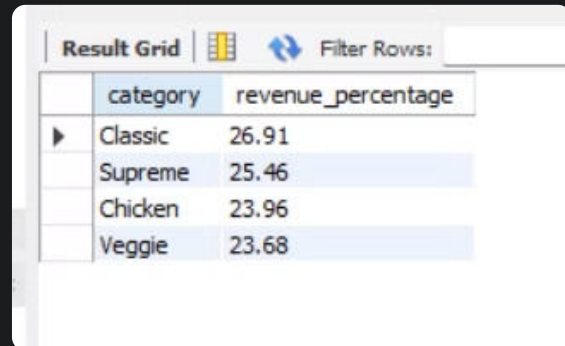
Result Grid   Filter Rows:

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

Slide 13: Query II

- **Heading:** Percentage Contribution of Each Pizza Type to Total Revenue

```
1  -- Calculate the percentage contribution of each pizza type to total revenue.
2
3  • select pizza_types.category,
4     round(sum(order_details.quantity * pizzas.price) /(SELECT
5         ROUND(SUM(order_details.quantity * pizzas.price),
6             2) AS total_sale
7     FROM
8         order_details
9         JOIN
10            pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2) as revenue_percentage
11 from pizza_types join pizzas
12 on pizza_types.pizza_type_id = pizzas.pizza_type_id
13 join order_details
14 on order_details.pizza_id = pizzas.pizza_id
15 group by pizza_types.category order by revenue_percentage desc;
16
17
```



The screenshot shows a database interface with a 'Result Grid' tab selected. The grid displays the results of the SQL query, showing the category of each pizza type and its corresponding revenue percentage, ordered from highest to lowest percentage.

	category	revenue_percentage
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Slide 14: Query 12

- **Heading:** Cumulative Revenue Generated Over Time

```
1  -- Analyze the cumulative revenue generated over time.
2
3 • select order_date,
4    round(sum(revenue) over (order by order_date),2) as cum_revenue
5  from
6    (select orders.order_date,
7     sum(order_details.quantity * pizzas.price) as revenue
8    from order_details join pizzas
9    on order_details.pizza_id = pizzas.pizza_id
10   join orders on orders.order_id = order_details.order_id
11   group by orders.order_date) as sales;
12
```

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
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.3
2015-01-14	32358.7
2015-01-15	34343.5
2015-01-16	36937.65
2015-01-17	39001.75
2015-01-18	40978.6
2015-01-19	43365.75
2015-01-20	45763.65
2015-01-21	47804.2
2015-01-22	50300.9
2015-01-23	52724.6
2015-01-24	55013.85

Slide 15: Query 13

- **Heading:** Top 3 Most Ordered Pizza Types by Revenue for Each Category

```
1  -- Determine the top 3 most ordered pizza type based on revenue
2  -- for each pizza category.
3
4  • select name, revenue
5    from
6    (select category, name, revenue,
7     rank() over (partition by category order by revenue desc) as rn
8    from
9     (select pizza_types.category, pizza_types.name,
10      sum((order_details.quantity) * pizzas.price) as revenue
11    from pizza_types join pizzas
12    on pizza_types.pizza_type_id = pizzas.pizza_type_id
13    join order_details
14    on order_details.pizza_id = pizzas.pizza_id
15    group by pizza_types.category, pizza_types.name) as a) as b
16   where rn <= 3;
17
```

Result Grid			Filter Rows:
	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	
	The Sicilian Pizza	30940.5	
	The Four Cheese Pizza	32265.70000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	

Slide 16: Summary and Insights

- **Content:** Summarize the key findings from the analysis.
 - Total orders and revenue
 - Most popular pizzas and sizes
 - Revenue distribution and trends

Thank You

