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SQL PROJECT ON PIZZA SALES

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ABOUT PROJECT

In this project, I utilized SQL queries to solve business problems related to pizza sales





DATABASE

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order_details	
order_details_id	INT
order_id	INT
pizza_id	TEXT
quantity	INT

ORDER DETAILS

ORDERS

PIZZA TYPES

PIZZAS

orders	
order_id	INT
order_date	DATE
order_time	TIME
Indexes	



pizza_types	
pizza_type_id	TEXT
name	TEXT
category	TEXT
ingredients	TEXT

pizzas	
pizza_id	TEXT
pizza_type_id	TEXT
size	TEXT
price	DOUBLE



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
3 • SELECT
4     COUNT(*) AS total_order
5 FROM
6     orders;
```

	total_order
▶	21350



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
    ROUND(SUM(o.quantity * p.price), 2) AS total_sales
FROM
    order_details AS o
    JOIN
    pizzas AS p ON o.pizza_id = p.pizza_id;
```

	total_sales
▶	188333.25



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;
```

	name	price
▶	The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT  
    COUNT(order_details.pizza_id) AS order_count, pizzas.size  
FROM  
    order_details  
    JOIN  
    pizzas ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizzas.size  
ORDER BY order_count DESC;
```

	order_count	size
▶	4326	L
	3463	M
	3298	S
	118	XL
	8	XXL



LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS Order_Quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY Order_Quantity DESC
LIMIT 5;
```

	name	Order_Quantity
►	The Barbecue Chicken Pizza	583
	The Pepperoni Pizza	579
	The Hawaiian Pizza	555
	The California Chicken Pizza	549
	The Thai Chicken Pizza	532



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT
    pizza_types.category AS category,
    SUM(order_details.quantity) AS Ordered_quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY category;
```

	category	Ordered_quantity
▶	Classic	3382
	Veggie	2752
	Supreme	2745
	Chicken	2544



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT
    orders.order_time, COUNT(orders.order_id)
FROM
    orders
GROUP BY order_time;
```

Result Grid   Filter Rows:

	order_time	count(orders.order_id)
▶	11:38:36	2
	11:57:40	1
	12:12:28	1
	12:16:31	3
	12:21:30	1
	12:29:36	1
	12:50:37	1
	12:51:37	1
	12:52:01	1
	13:00:15	2
	13:02:59	1
	13:04:41	2
	13:11:55	1
	13:14:19	2
	13:33:00	2
	13:34:07	3
	13:53:00	1
	13:57:08	1
	13:59:09	1
	14:03:08	3

Result 10 x



JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT  
    pizza_types.category, COUNT(pizza_types.name) AS pizzas  
FROM  
    pizza_types  
GROUP BY pizza_types.category
```

category	pizzas
Chicken	6
Classic	8
Supreme	9
Veggie	9



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT
    ROUND(AVG(qty), 2)
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS qty
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS daily_qty;
```

Result Grid	
	AVG(qty)
▶	137.6265



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
  pizza_types.name,
  SUM(order_details.quantity * pizzas.price) AS revenue
FROM
  pizza_types
  JOIN
  pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  JOIN
  order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

	name	revenue
▶	The Barbecue Chicken Pizza	10297.25
	The Thai Chicken Pizza	9659
	The California Chicken Pizza	9563.75



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

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

	category	revenue
▶	Classic	26.458206397436406
	Supreme	25.23943594665308
	Veggie	24.378807247259715
	Chicken	23.92355040865058





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