

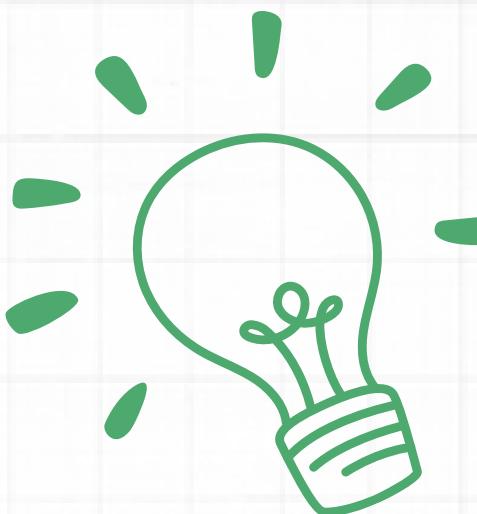
PIZZA SALES PROJECT

WITH SQL

AYUSHMAN CHOUBEY

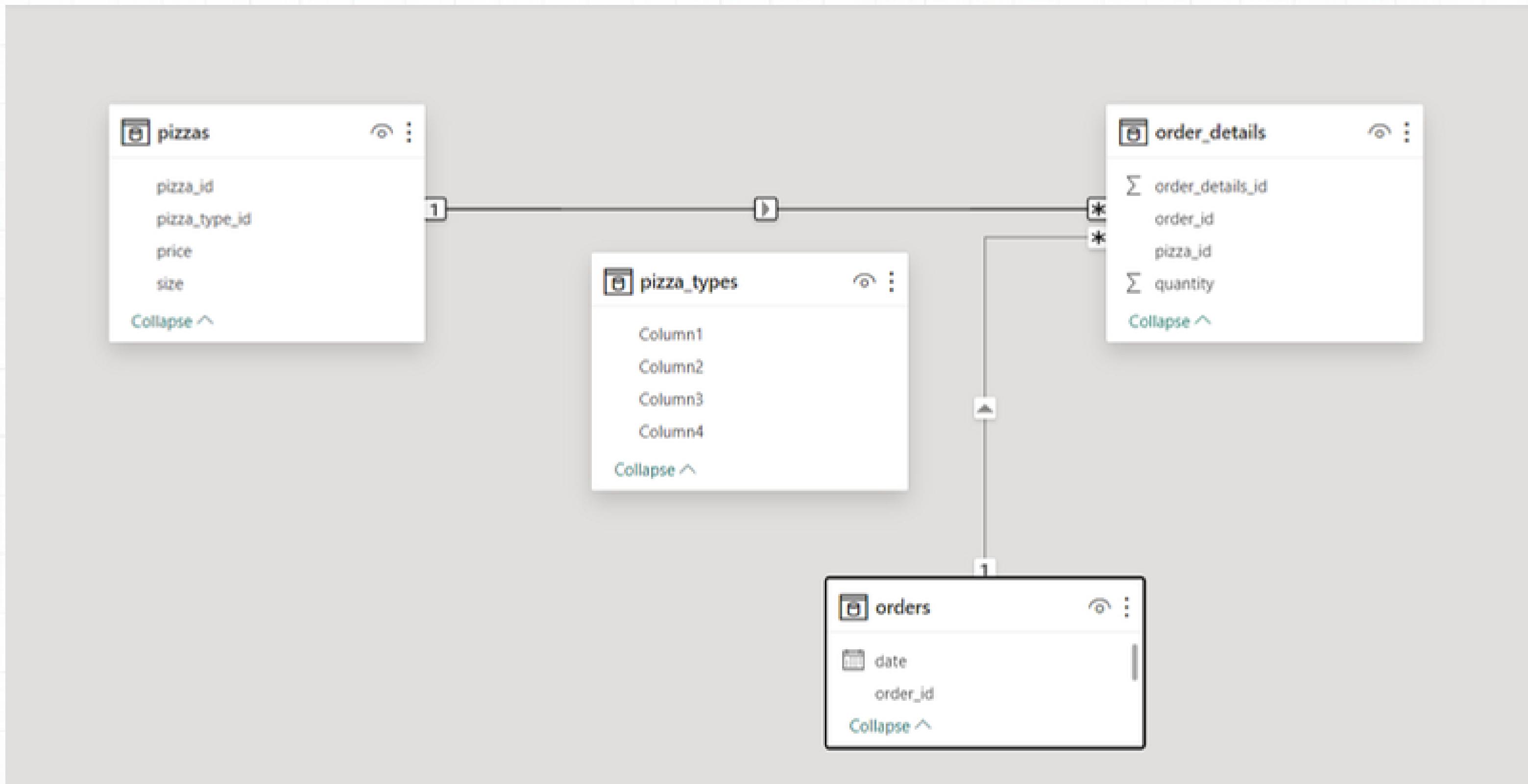
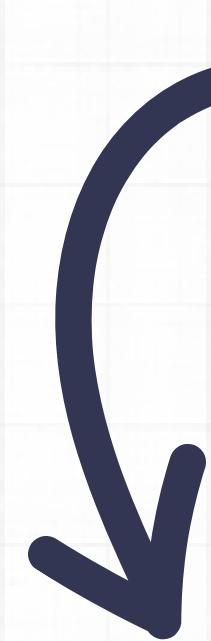
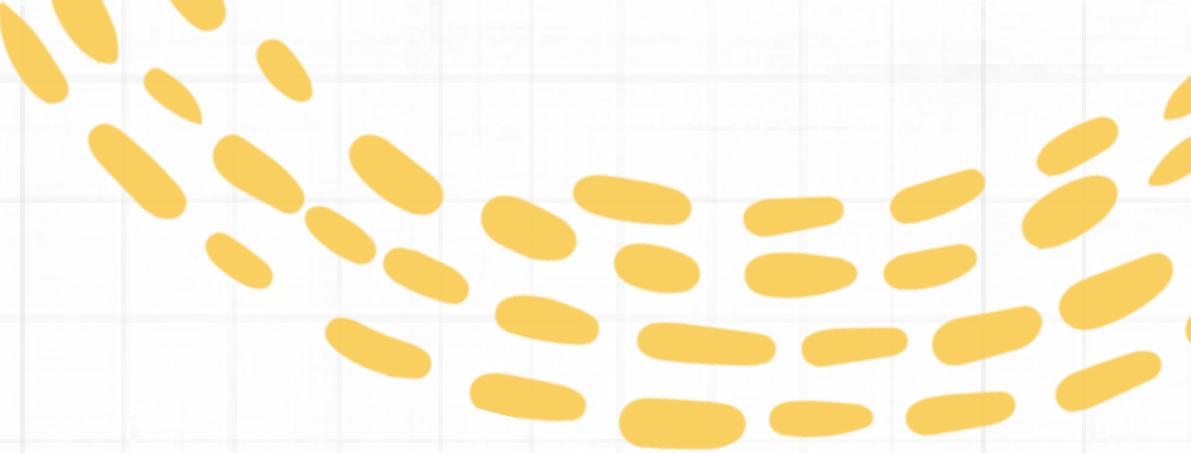


THE PROJECT



I am Ayushman. Within the scope of this project, I've leveraged the power of SQL to delve into and effectively address inquiries pertaining to pizza sales. This involved meticulously crafting queries and executing them to analyze various facets of the sales data, such as trends, customer preferences, and revenue streams. Through this process, I've not only provided answers but also gleaned valuable insights, enabling informed decision-making and optimization strategies within the realm of pizza sales.

ABOUT THE DATASET



QUESTIONS RELATED TO DATASET

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day

- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.
- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
3 • SELECT  
4     COUNT(*) AS Total_Orders_Placed  
5 FROM  
6 lapinos.orders;
```

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

Total_Orders_Placed
21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
3 • SELECT
4   ROUND(sum(order_details.quantity * pizzas.price),
5         2) AS Total_Revenue_Generated
6 FROM
7   order_details
8   JOIN
9   pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

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

	Total_Revenue_Generated
▶	817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA

```
3 • SELECT
4     pizza_types.name, pizzas.price
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:

Export:



Wrap Cell Content:



Fetch rows:



	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
3  SELECT
4      pizzas.size, 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 order by Order_count desc limit 1;
```

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

size	Order_count
L	18526

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

```
3 • SELECT
4     pizza_types.name, SUM(order_details.quantity) AS Quantity
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9     JOIN
10    order_details ON order_details.pizza_id = pizzas.pizza_id
11 GROUP BY pizza_types.name
12 ORDER BY Quantity DESC
13 LIMIT 5;
```

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

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

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

```
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

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

3 • SELECT

```
4      HOUR(order_time) AS Hours, COUNT(order_id) AS Order_Count  
5 FROM  
6 orders  
7 GROUP BY HOUR(order_time);
```

Hours	Order_Count
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

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

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

```
3 • SELECT
4     ROUND(AVG(Quantity), 0) as Average_Pizzas_Ordered_Per_day
5 FROM
6     (SELECT
7         orders.order_date, SUM(order_details.quantity) AS Quantity
8     FROM
9         orders
10    JOIN order_details ON orders.order_id = order_details.order_id
11    GROUP BY orders.order_date) AS ordered_quantity;
```

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

Average_Pizzas_Ordered_Per_day
138

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 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 Revenue DESC
14    LIMIT 3;
```

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

name	Revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
3 • SELECT
4     pizza_types.category,
5     round((SUM(order_details.quantity * pizzas.price) / (SELECT
6         ROUND(SUM(order_details.quantity * pizzas.price),
7         2) AS Total_Revenue_Generated
8     FROM
9         order_details
10    JOIN
11        pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100,2) AS Revenue
12   FROM
13     pizza_types
14    JOIN
15        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
16    JOIN
17        order_details ON order_details.pizza_id = pizzas.pizza_id
18  GROUP BY pizza_types.category
19  ORDER BY Revenue DESC;
```

Result Grid | Filter Row

	category	Revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```
3 • select order_date, 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  
7    from order_details join pizzas  
8    on order_details.pizza_id = pizzas.pizza_id  
9    join orders  
10   on orders.order_id = order_details.order_id  
11   group by orders.order_date) as Sales ;  
12
```

Result Grid		Filter Rows:
	order_date	Cum_Revenue
▶	2015-01-01	2713.850000000004
	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	23990.35000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.30000000003
	2015-01-14	32358.70000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.60000000006
	2015-01-19	43365.75000000001
	2015-01-20	45763.65000000001
	2015-01-21	47804.20000000001

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
3  select name, Revenue
4    from
5    (select category, name, Revenue,
6      rank()
7      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
12  pizza_types join pizzas
13  on pizza_types.pizza_type_id = pizzas.pizza_type_id
14  join order_details
15  on
16  order_details.pizza_id = pizzas.pizza_id
17  group by pizza_types.category, pizza_types.name)
18  as A)
19  as B
20  where RN <= 3;
21 |
```

Result Grid		Filter Rows:	Export:
	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	32265.7000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	

CONTACT



Mumbai MH



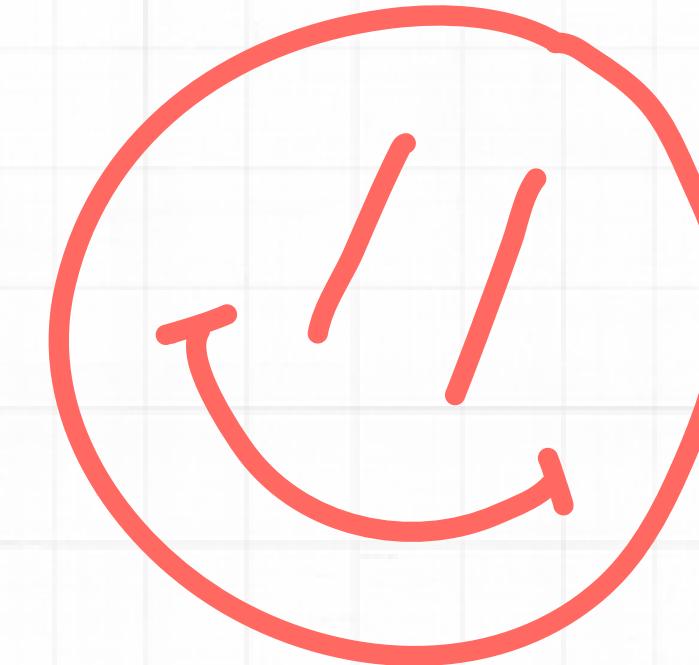
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feel free to contact me