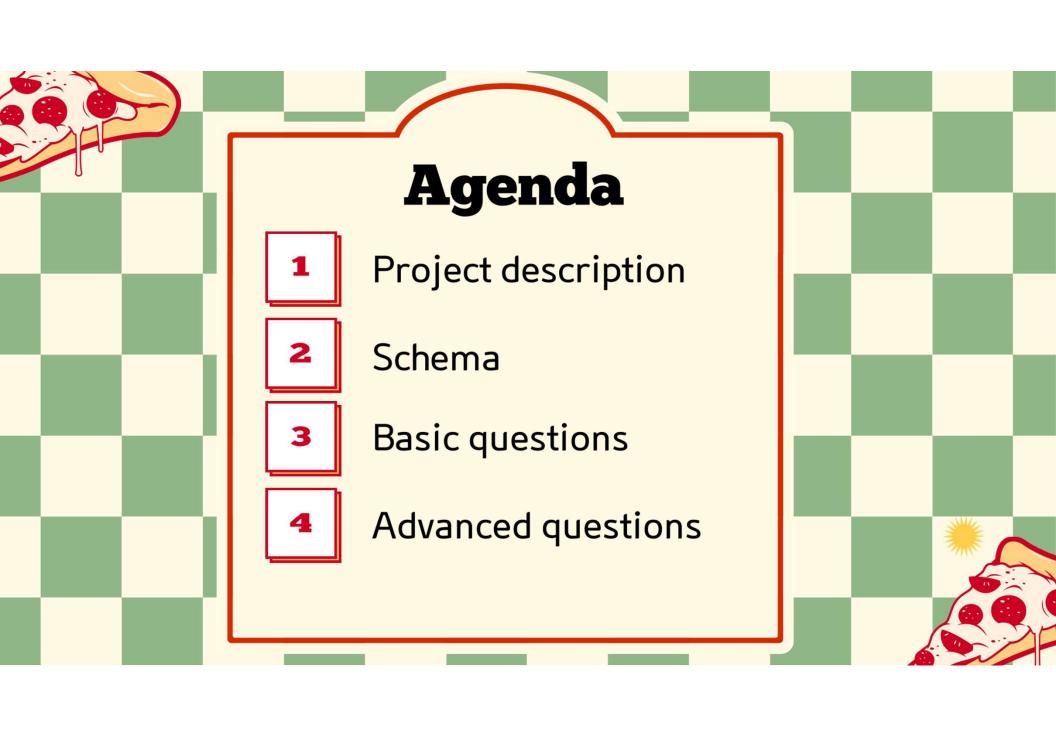


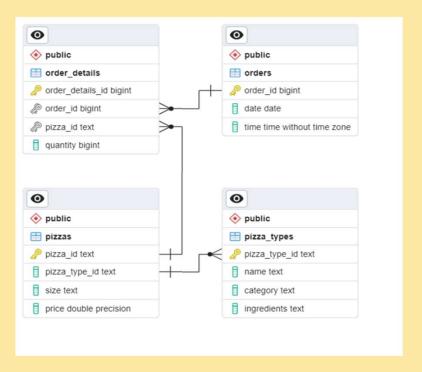


A completely new pizza

@ Koushik_Talluri



Schema





Basic Questions

#1. Retrieve the total number of orders placed.

```
24 SELECT count(order_id) AS Total_orders
25 FROM orders
```

Data Output Messages Notifications

total_orders
bigint

1 21350



#2. Calculate the total revenue generated from pizza sales.

- 29 **SELECT** round(**sum**(od.quantity***p**.price)) **AS** Total_revenue
- 30 FROM order_details AS od
- 31 JOIN pizzas AS p ON p.pizza_id= od.pizza_id

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1				817	860			



#3. Identify the highest-priced pizza.

```
SELECT pt.name, p.price
FROM pizza_types AS pt
JOIN pizzas AS p ON p.pizza_type_id= pt.pizza_type_id
ORDER BY p.price DESC
LIMIT 1
```

Data Output Messag		es Notifications		ions					
=+		~		~	i	ì	\$	<u>+</u>	~
	na tex	me ct			â	pri	i <mark>ce</mark> uble pr	ecisio	n 🖨
1	Th	ne Gr	eek P	izza	ì			3	5.95



#4.ldentify the most common pizza size ordered.

```
SELECT p.size,

count(od.order_details_id) AS Order_count

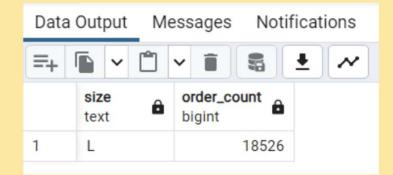
FROM pizzas AS p

JOIN order_details AS od ON p.pizza_id = od.pizza_id

GROUP BY(p.size)

ORDER BY Order_count DESC

LIMIT 1
```





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

	name text	quantity bigint
1	The Classic Deluxe Pizza	2416
2	The Barbecue Chicken Pizza	2372
3	The Hawaiian Pizza	2370
4	The Pepperoni Pizza	2369
5	The Thai Chicken Pizza	2315



#6. Join the necessary tables to find the total quantity of each pizza category ordered.

	category text	quantity numeric
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050



#7. Determine the distribution of orders by hour of the day.

```
74 SELECT extract(HOUR

75 FROM o.time) AS HOUR,

76 count(o.order_id) AS order_count

77 FROM orders AS o

78 GROUP BY (HOUR)

79 ORDER BY order_count DESC
```

	hour numeric	order_count bigint
1	12	2520
2	13	2455
3	18	2399
4	17	2336
5	19	2009



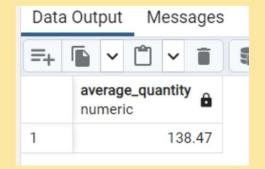
#8. Join relevant tables to find the category-wise distribution of pizzas.

83	SELECT category,
84	<pre>count(name)</pre>
85	FROM pizza_types
86	GROUP BY(category)

	category text	count bigint	â
1	Supreme		9
2	Chicken		6
3	Classic		8
4	Veggie		9



#9. Group the orders by date and calculate the average number of pizzas ordered per day.





#10. Determine the top 3 most ordered pizza types based on revenue.

```
SELECT pt.name,
100
101
            sum(od.quantity*p.price) AS revenue
     FROM order_details AS od
102
     JOIN pizzas AS p ON od.pizza_id=p.pizza_id
103
     JOIN pizza_types AS pt ON pt.pizza_type_id= p.pizza_type_id
104
    GROUP BY(pt.name)
105
    ORDER BY revenue DESC
106
107
    LIMIT 3
```

	name text	revenue double precision
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5





#1. Calculate the percentage contribution of each pizza type to total revenue.

```
111
    WITH revenue_per_category AS
112
       (SELECT pt.category,
113
               round(cast(sum(od.quantity*p.price)AS numeric), 2) AS category_revenue
114
        FROM order_details AS od
115
        JOIN pizzas AS p ON od.pizza_id=p.pizza_id
        JOIN pizza_types AS pt ON pt.pizza_type_id= p.pizza_type_id
116
117
        GROUP BY(pt.category)
       ORDER BY category_revenue DESC),
118
119
           total_revenue AS
120
       (SELECT SUM(category_revenue) AS total_revenue
121
        FROM revenue_per_category)
122
    SELECT rpc.category,
123
            rpc.category_revenue,
124
            tr.total_revenue,
            round(cast((rpc.category_revenue / tr.total_revenue) * 100 AS numeric), 2) AS percentage
125
    FROM revenue_per_category rpc,
126
127
          total_revenue tr
    ORDER BY percentage DESC;
```

category text	category_revenue numeric	total_revenue numeric	percentage numeric
Classic	220053.10	817860.05	26.91
Supreme	208197.00	817860.05	25.46
Chicken	195919.50	817860.05	23.96
Veggie	193690.45	817860.05	23.68



#2. Analyze the cumulative revenue generated over time.

```
SELECT date, sum(revenue) OVER (ORDER BY date) AS cumulative_revenue
132
133
     FROM
       (SELECT o.date AS date,
134
               round(cast(sum(od.quantity*p.price) AS numeric), 2) AS revenue
135
        FROM order_details AS od
136
        JOIN pizzas AS p ON od.pizza_id=p.pizza_id
137
        JOIN orders AS o ON o.order_id=od.order_id
138
        GROUP BY (date)) sales
139
```

	date date	cumulative_revenue numeric
1	2015-01-01	2713.85
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.60
5	2015-01-05	11929.55



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

```
SELECT category,
143
144
            name,
145
            revenue,
146
            rank
     FROM
147
       (SELECT category,
148
149
               name,
150
               revenue,
               rank()over(PARTITION BY category
151
                           ORDER BY revenue DESC) AS rank
152
        FROM
153
154
          (SELECT pt.category,
155
                  pt.name,
                  sum(od.quantity*p.price) AS revenue
156
           FROM pizza_types AS pt
157
           JOIN pizzas AS p ON pt.pizza_type_id=p.pizza_type_id
158
           JOIN order_details AS od ON od.pizza_id=p.pizza_id
159
           GROUP BY (pt.category,
160
161
                      pt.name)) AS a) AS b
     WHERE rank<4
162
```

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

Data	Output Me	essages Notifications		
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	category text	name text	revenue double precision	rank bigint
1	Chicken	The Thai Chicken Pizza	43434.25	1
2	Chicken	The Barbecue Chicken Pizza	42768	2
3	Chicken	The California Chicken Pizza	41409.5	3
4	Classic	The Classic Deluxe Pizza	38180.5	1
5	Classic	The Hawaiian Pizza	32273.25	2
6	Classic	The Pepperoni Pizza	30161.75	3
7	Supreme	The Spicy Italian Pizza	34831.25	1
8	Supreme	The Italian Supreme Pizza	33476.75	2
9	Supreme	The Sicilian Pizza	30940.5	3
10	Veggie	The Four Cheese Pizza	32265.70000000065	1
11	Veggie	The Mexicana Pizza	26780.75	2
12	Veggie	The Five Cheese Pizza	26066.5	3



