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1  -- 1. Monthly Orders: Compare total orders across pre-crisis (Jan-May 2025) vs crisis (Jun-Sep 2025). How severe is the decline?
2  WITH CTE AS (SELECT *,MONTHNAME(order_timestamp) AS Month FROM fact_orders)
3  Select Month, COUNT(order_id) AS Orders FROM CTE GROUP BY Month;
4  |
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< Result Grid Filter Rows: Export:  Wrap Cell Content: 

	Month	Orders
▶	January	23539
	February	22667
	March	23543
	April	21466
	May	22591
	June	9293
	July	8818
	August	8555
	September	8694



Limit to 1000 rows

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1  -- 2. Which top 5 city groups experienced the highest percentage decline in orders during
2  -- the crisis period compared to the pre-crisis period?
3  WITH CTE1 AS (SELECT dr.city, fo.*,MONTH(order_timestamp) AS Monthnumber FROM fact_orders fo LEFT JOIN dim_restaurant dr
4  USING (restaurant_id)),
5  CTE2 AS (SELECT city, COUNT(order_id) AS Pre_crisis_orders FROM CTE1 WHERE Monthnumber<6 GROUP BY city),
6  CTE3 AS (SELECT city, COUNT(order_id) AS Crisis_orders FROM CTE1 WHERE Monthnumber>=6 GROUP BY city),
7  CTE4 AS (SELECT CTE2.city, Pre_crisis_orders, Crisis_orders,
8  ROUND((Pre_crisis_orders-Crisis_orders)*100/SUM(Pre_crisis_orders) OVER(),2) as diff_percentage
9  FROM CTE2 JOIN CTE3 USING (city)),
10 CTE5 AS (SELECT *, DENSE_RANK() OVER(ORDER BY diff_percentage DESC) AS ranking FROM CTE4)
11 Select * FROM CTE5 WHERE ranking<=5;
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Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	city	Pre_crisis_orders	Crisis_orders	diff_percentage	ranking
▶	Bengaluru	28219	8700	17.15	1
	Mumbai	16809	5264	10.14	2
	Delhi	16837	5301	10.14	2
	Chennai	11537	3463	7.09	3
	Hyderabad	11546	3589	6.99	4
	Kolkata	10470	3226	6.37	5

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1  -- 3. Among restaurants with at least 50 pre-crisis orders, which top 10 high-volume restaurants experienced the largest
2  -- percentage decline in order counts during the crisis period?
3  WITH CTE1 AS (SELECT dr.restaurant_name, fo.*,MONTH(order_timestamp) AS Monthnumber FROM fact_orders fo LEFT JOIN dim_restaurant dr
4  USING (restaurant_id)),
5  CTE2 AS (SELECT restaurant_name, COUNT(order_id) AS Pre_crisis_orders FROM CTE1 WHERE Monthnumber<6 GROUP BY restaurant_name),
6  CTE3 AS (SELECT restaurant_name, COUNT(order_id) AS Crisis_orders FROM CTE1 WHERE Monthnumber>=6 GROUP BY restaurant_name),
7  CTE4 AS (SELECT CTE2.restaurant_name, Pre_crisis_orders, Crisis_orders FROM CTE2 JOIN CTE3 USING(restaurant_name)
8  WHERE Pre_crisis_orders>=50),
9  CTE5 AS (SELECT *, ROUND((Pre_crisis_orders-Crisis_orders)*100/Pre_crisis_orders,2) AS difference_percentage FROM CTE4),
10 CTE6 AS (SELECT *, DENSE_RANK() OVER(ORDER BY difference_percentage DESC) AS ranking FROM CTE5)
11 SELECT * FROM CTE6 WHERE ranking<=10;

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

restaurant_name	Pre_crisis_orders	Crisis_orders	difference_percentage	ranking
Royal Curry Mahal	50	3	94.00	1
Taste of Cafe Corner	50	4	92.00	2
Fresh Tandoor Delight	54	5	90.74	3
Flavours of Curry Cafe	53	5	90.57	4
Urban Kitchen Zone	67	10	85.07	5
Punjabi Curry Delight	58	9	84.48	6
Flavours of Tandoor Central	64	10	84.38	7
Grand Biryani Hub	50	8	84.00	8
Hot & Crispy House Heaven	50	8	84.00	8
Hot & Crispy Mess Mahal	58	10	82.76	9
Sri Cafe Nest	52	9	82.69	10

Result Grid

Form Editor

Field Types

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1  -- 4. Cancellation Analysis: What is the cancellation rate trend pre-crisis vs crisis, and which cities are most affected?
2  WITH CTE1 AS (SELECT dr.city, fo.*, CASE
3     WHEN MONTH(order_timestamp)<6 THEN 'Pre_Crisis'
4     WHEN MONTH(order_timestamp)>=6 THEN 'Crisis' END AS Timeline FROM fact_orders fo LEFT JOIN dim_restaurant dr USING (restaurant_id)),
5     CTE2 AS (SELECT city, Timeline, COUNT(order_id) AS total_orders FROM CTE1 GROUP BY city, Timeline),
6     CTE3 AS (SELECT city, Timeline, COUNT(order_id) AS cancelled_orders FROM CTE1 WHERE is_cancelled='Y' GROUP BY city, Timeline),
7     CTE4 AS (SELECT CTE2.city, CTE2.Timeline, total_orders, cancelled_orders, ROUND(cancelled_orders*100/total_orders,2)
8     AS Cancellation_rate FROM CTE2 JOIN CTE3 USING (city, Timeline))
9     SELECT *, DENSE_RANK() OVER (PARTITION BY Timeline ORDER BY Cancellation_rate DESC) AS ranking FROM CTE4 ;

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city	Timeline	total_orders	cancelled_orders	Cancellation_rate	ranking
Ahmedabad	Crisis	2916	380	13.03	1
Mumbai	Crisis	5264	650	12.35	2
Chennai	Crisis	3463	422	12.19	3
Hyderabad	Crisis	3589	434	12.09	4
Kolkata	Crisis	3226	386	11.97	5
Bengaluru	Crisis	8700	1023	11.76	6
Pune	Crisis	2901	337	11.62	7
Delhi	Crisis	5301	586	11.05	8
Bengaluru	Pre_Crisis	28219	1742	6.17	1
Delhi	Pre_Crisis	16837	1037	6.16	2
Hyderabad	Pre_Crisis	11546	704	6.10	3
Ahmedabad	Pre_Crisis	9355	569	6.08	4
Chennai	Pre_Crisis	11537	700	6.07	5
Pune	Pre_Crisis	9033	542	6.00	6
Mumbai	Pre_Crisis	16809	986	5.87	7
Kolkata	Pre_Crisis	10470	614	5.86	8

```
1  -- 5. Delivery SLA: Measure average delivery time across phases. Did SLA compliance worsen significantly in the crisis period?
2  • WITH CTE1 AS (SELECT dp.*,fo.order_timestamp FROM fact_delivery_performance dp LEFT JOIN fact_orders fo USING (order_id)),
3  CTE2 AS (SELECT *,
4  CASE
5  WHEN MONTH(order_timestamp)<6 THEN 'Pre_Crisis'
6  WHEN MONTH(order_timestamp)>=6 THEN 'Crisis' END AS Timeline FROM CTE1)
7  SELECT Timeline, ROUND(AVG(actual_delivery_time_mins),2) AS avg_actual_delivery_time_mins,
8  ROUND(AVG(expected_delivery_time_mins),2) AS avg_expected_delivery_time_mins,
9  ROUND(AVG(actual_delivery_time_mins-expected_delivery_time_mins),2) AS avg_delay_mins FROM CTE2 GROUP BY Timeline;
10
```

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

	Timeline	avg_actual_delivery_time_mins	avg_expected_delivery_time_mins	avg_delay_mins
▶	Pre_Crisis	39.52	37.50	2.02
	Crisis	60.12	42.52	17.60

```

1  |-- 6. Ratings Fluctuation: Track average customer rating month-by-month. Which months saw the sharpest drop?
2  •  WITH CTE1 AS (SELECT fr.*,fo.order_timestamp FROM fact_ratings fr LEFT JOIN fact_orders fo USING (order_id)),
3     CTE2 AS (SELECT *, MONTHNAME(order_timestamp) as Month FROM CTE1)
4     SELECT Month, ROUND(AVG(rating),2) AS average_rating FROM CTE2 GROUP BY Month;
5

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

	Month	average_rating
▶	January	4.58
	February	4.40
	March	4.74
	April	4.29
	May	4.49
	June	2.58
	July	2.69
	August	2.40
	September	2.31


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1  -- 8. Revenue Impact: Estimate revenue loss from pre-crisis vs crisis (based on subtotal, discount, and delivery fee).
2  With CTE AS (SELECT *,
3  CASE
4  WHEN MONTH(order_timestamp)<6 THEN 'Pre_Crisis'
5  WHEN MONTH(order_timestamp)>=6 THEN 'Crisis' END AS Timeline
6  FROM fact_orders)
7  SELECT Timeline, CONCAT(ROUND(SUM(subtotal_amount-discount_amount)/1000000,2),' M') AS Revenue FROM CTE
8  WHERE is_cancelled='N' GROUP BY Timeline;
9
```

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

	Timeline	Revenue
	Pre_Crisis	34.15 M
	Crisis	9.93 M

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1  -- 9. Loyalty Impact: Among customers who placed five or more orders before the crisis, determine how many stopped
2  -- ordering during the crisis, and out of those, how many had an average rating above 4.5?
3  WITH CTE1 AS (SELECT fo.*, fr.rating, MONTH(order_timestamp) AS Monthnumber
4  FROM fact_orders fo LEFT JOIN fact_ratings fr USING (order_id)),
5  CTE2 AS (SELECT Customer_id, COUNT(Customer_id) AS Pre_crisis_count, ROUND(AVG(rating),2) AS PreCrisis_Avg_rating FROM CTE1
6  WHERE Monthnumber<6 GROUP BY Customer_id),
7  CTE3 AS (SELECT Customer_id, COUNT(Customer_id) AS Crisis_count FROM CTE1 WHERE Monthnumber>=6 GROUP BY Customer_id)
8  SELECT ROW_NUMBER() OVER() AS Sno, CTE2.*, Crisis_count FROM CTE2 LEFT JOIN CTE3 USING (customer_id) WHERE Pre_crisis_count>=5 AND
9  Crisis_count IS NULL AND PreCrisis_Avg_rating>4.5 ORDER BY Pre_crisis_count DESC;
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Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Sno	customer_id	Pre_crisis_count	PreCrisis_Avg_rating	Crisis_count
6	CUST103227	5	4.77	NULL
7	CUST110988	5	5.00	NULL
8	CUST165515	5	4.95	NULL
9	CUST159150	5	4.70	NULL
10	CUST109617	5	4.73	NULL
11	CUST188511	5	4.58	NULL
12	CUST078309	5	4.75	NULL
13	CUST032044	5	4.85	NULL
14	CUST032334	5	5.00	NULL
15	CUST125990	5	4.70	NULL
16	CUST086938	5	4.67	NULL
17	CUST026722	5	4.57	NULL
18	CUST109591	5	4.60	NULL
19	CUST144684	5	4.60	NULL
20	CUST082992	5	4.70	NULL
21	CUST083875	5	5.00	NULL
22	CUST041953	5	5.00	NULL
23	CUST176132	5	4.60	NULL
24	CUST061759	5	4.75	NULL
25	CUST069956	5	4.55	NULL
26	CUST163628	5	4.75	NULL

Result Grid

Form Editor

Field Type

Query Stats

Execution Plan