CALL CENTRE REPORT

COMPLETE EXCEL PROJECT

- Objective
- Setting up Dashboard
- ☐ Creating DAX Measures
- ☐ Call Count vs Time Analysis
- ☐ Representative Rating
- ☐ Representative vs Call Count
- Male vs Female Callers
- ☐ Slicers and Key Findings
- Conclusion

OBJECTIVE

The objective of this project is to **analyze a call center dataset** to gain insights into key performance metrics such as call volume, agent performance, customer satisfaction, and resolution times. By leveraging advanced Excel features like **Power Pivot**, **slicers**, **interactive charts**, and **conditional formatting**, this project aims to:

1. Understand and Apply Advanced Excel Tools:

- 1. Use **Power Pivot** to manage and analyze large datasets efficiently.
- 2. Create interactive dashboards using slicers and PivotCharts to visualize data dynamically.
- 3. Apply **conditional formatting** to highlight critical trends and outliers.

2. Analyze Call Center Performance:

- 1. Evaluate call volume trends over time to identify peak hours and days.
- 2. Assess **agent performance** by analyzing metrics like average handle time (AHT), first call resolution (FCR), and call abandonment rates.
- 3. Measure **customer satisfaction** by analyzing feedback scores and complaint resolution times.

3. Provide Actionable Insights:

- 1. Identify areas for improvement, such as reducing wait times or improving agent training.
- 2. Recommend strategies to enhance overall call center efficiency and customer experience.

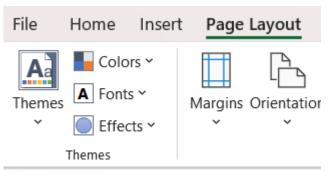
4.Showcase Excel Proficiency:

- 1. Demonstrate the ability to clean, organize, and analyze large datasets.
- 2. Highlight skills in creating professional and interactive reports using advanced Excel features.

Step 1: Choosing Theme and Dashboard Setup:

To ensure a professional and visually appealing presentation, I selected the **Slipstream theme** from the **Page Layout** menu in Excel. This theme provides a clean and modern design, which enhances readability and aesthetics. Additionally, I customized the **color scheme** to align with the theme, ensuring consistency across the dashboard.





For this project, I chose **Aptos Extra Bold** as the primary font

Step 2: Create a Pivot Table and Set Up Relationships

To analyze the call center data effectively, I created a **Pivot Table** to summarize key metrics such as call volume, average handle time, and customer satisfaction. Since the data was spread across two tables— **Calls Table** and **Customer Table**—I established a **relationship** between them using the **Customer ID** field. This relationship allows seamless integration of data from both tables, enabling comprehensive analysis and visualization in the Pivot Table

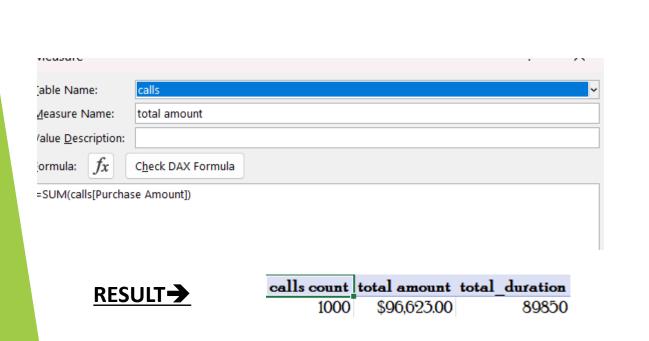
Step 3: Create a DAX Measure for Call Counts

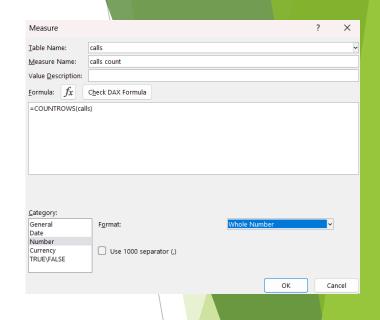
I created a DAX measure named Calls Count using the formula <u>=COUNTROWS(Calls)</u> to calculate the total number of calls in the Calls Table. DAX (Data Analysis Expressions) is a powerful language in Excel for advanced calculations and data modeling, enabling deeper analysis of call center metrics.

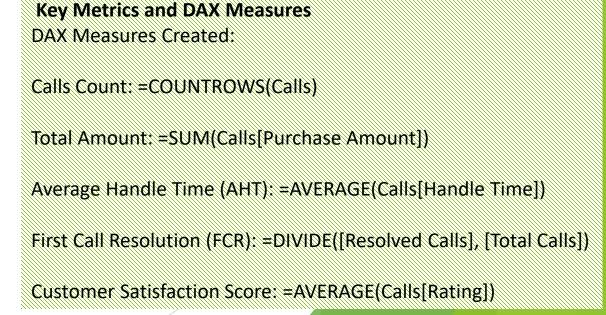
I created a DAX measure named Total Purchase Amount using the formula:

=SUM(Calls[Purchase Amount])

This calculates the total sum of the Purchase Amount column in the Calls Table, providing insights into revenue generated from calls.







Interactive Graphs and Insights Graph 1: Call Trends - Month-wise Call Trends •Insight:

- Call volume peaks in March and August, indicating seasonal trends.
- Lowest call volume in **December**, likely due to holidays.

•Actionable Insight:

 Allocate more resources during peak months to handle increased call volume.

Graph 2: Weekly Report of Calls

•Insight:

• Highest call volume on **Mondays** (54 calls) and lowest on **Saturdays** (25 calls).

•Actionable Insight:

 Schedule more agents on Mondays to reduce wait times.

CALL TRENDS 35 Chart Area 30 25 20 15 10 5 Aug Sep Apr May Jun Jul OctSunday 30 Monday

26

27

38

Tuesdau

Wednesday

Thursdau

Saturday

Thursday (Day of week)
Category: Thursday

Graph 3: Representative-wise Rating

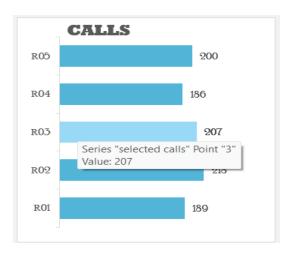
•Insight:

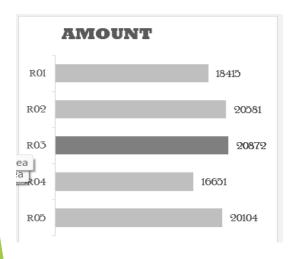
• RO3 has the highest rating (4.5/5), while RO5 has the lowest (3.2/5).

•Actionable Insight:

• Provide additional training to underperforming representatives.







Graph 4: Amount of Calls per Representative•Insight:

RO3 handles the most calls (207), while RO1 handles the least (199).

•Actionable Insight:

Balance workload among representatives to improve efficiency.

Graph 5: Total Amount Collected per Representative•Insight:

• RO3 generates the highest revenue (20,672),while**RO5**generatest helowest(2,004).

•Actionable Insight:

 Investigate why RO5's revenue is low and provide support to improve performance.

Graph 6: Complete Data - Consumer vs City vs Amount Purchased •Insight:

• Cincinnati generates the highest revenue (25,061), while ** Cleveland ** generates the lowest (25,061), while ** Cleveland ** generates the lowest (20,619).

•Actionable Insight:

Focus on marketing strategies in low-performing cities to boost sales.

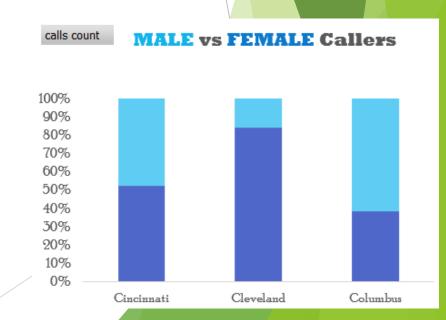
total amount	Column Lal					
Row Labels	RO1 R	RO2 RO3	R	04 R05	•	Grand Total
■ Cincinnati						
C0003	891 USD	1,332 USD	1,282 USD	739 USD	560 USD	4,804 USD
C0004	1,991 USD	1,886 USD	1,206 USD	884 USD	1,722 USD	7,689 USD
C0011	1,163 USD	1,180 USD	1,616 USD	1,043 USD	1,747 USD	6,749 USD
C0012	1,438 USD	1,616 USD	866 USD	829 USD	2,070 USD	6,819 USD
□ Cleveland						
C0002	1,233 USD	223 USD	1,680 USD	990 USD	1,508 USD	5,634 USD
C0007	1,598 USD	1,907 USD	869 USD	1,426 USD	1,416 USD	7,216 USD
C0008	900 USD	1,016 USD	960 USD	940 USD	1,193 USD	5,009 USD
C0010	900 USD	1,470 USD	1,617 USD	1,314 USD	941 USD	6,242 USD
C0013	1,255 USD	516 USD	1,874 USD	1,863 USD	1,722 USD	7,230 USD
C0015	1,138 USD	1,898 USD	1,482 USD	846 USD	1,154 USD	6,518 USD
□ Columbus						
C0001	1,655 USD	total amount	2,263 USD	987 USD	1,075 USD	6,785 USD
C0005	1,104 USD	Value: No value	1,445 USD	1,722 USD	1,196 USD	7,747 USD
C0006	372 USD	Row: Columbus	1,346 USD	1,156 USD	1,484 USD	6,176 USD
C0009	1,415 USD	Column: R02	1,214 USD	1,135 USD	1,566 USD	6,601 USD
C0014	1,36 Chart Are	1,363 USD	1,152 USD	777 USD	750 USD	5,404 USD



• **Female callers** dominate in all cities, with the highest in **Columbus** (60%).

•Actionable Insight:

 Tailor marketing campaigns to target female customers more effectively.



•Dashboard Features:

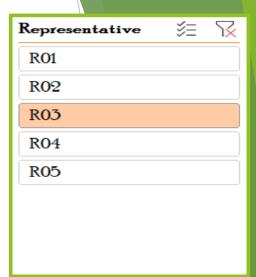
- Interactive slicers for filtering data by city, representative, and time period.
- Dynamic charts and tables that update based on slicer selections.

•Purpose:

 Provides a user-friendly interface for exploring data and generating insights.

Key Findings:

- Seasonal and weekly trends impact call volume.
- o Revenue and performance vary significantly across representatives and cities.
- Female callers dominate across all cities.





Message:

"Thank you for taking the time to review my Call Center Performance Analysis project. I hope this presentation demonstrated my ability to analyze data, create insightful visualizations, and provide actionable recommendations using advanced Excel tools."

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- **GitHub**:https://github.com/happy0sidhu/call_centre_report

•Call to Action:

"I'd be happy to discuss this project further or answer any questions. Feel free to reach out!"