**TDI POWER BI WEEK 4 PROJECT**

The Following Resources will help you understand Visualization in Power BI using the data you cleaned from your last task:

After which you are expected to move to part B and answer the questions, part C for submission mode and part D for details for correction classes.

PART A

RESOURCES:

LINK 1: <https://youtu.be/Rpgo3J44hTE?si=jG39Q-NzZzXP6JrE>

LINK2: <https://youtu.be/3NV5Jtbhfcw?si=R_Qs2oDzOLSY5YaX>

LINK 3: <https://youtu.be/0BKlUySopU4?si=GhvlBmt8Va_Kjg7H>

PART B

QUESTIONS:

**Data Visualization Basics**

1. **Customizing Visuals:**
   * Create a bar chart to display the total quantity of each pizza type sold. Customize the colors and labels of the chart for better readability.
2. **Using Filters and Slicers:**
   * Create a report showing the total sales for each pizza type. Add slicers for pizza\_size and order\_date to filter the data interactively.
3. **Creating Hierarchies and Drill-throughs:**
   * Create a hierarchy for the pizza\_category and pizza\_type\_name. Use this hierarchy in a chart and enable drill-through to see detailed sales data for each pizza type.
4. **Using Conditional Formatting:**
   * Apply conditional formatting to a table displaying pizza\_type\_name and total\_sales to highlight the top 5 best-selling pizza types.

**Advanced Visualization Techniques**

1. **Customizing Visuals:**
   * Design a pie chart showing the proportion of sales for each pizza\_category. Customize the pie chart to include data labels and a legend.
2. **Using Filters and Slicers:**
   * Develop a line chart to display sales trends over time. Add slicers for pizza\_category and pizza\_size to analyze trends for specific categories and sizes.
3. **Creating Hierarchies and Drill-throughs:**
   * Build a matrix visual with a hierarchy of pizza\_category, pizza\_type\_name, and pizza\_size. Enable drill-through to a detailed report that shows the list of orders for the selected pizza type and size.

**Building Interactive Reports and Dashboards**

1. **Creating Interactive Dashboards:**
   * Create an interactive dashboard that includes:
     + A summary of total sales and total quantity sold.
     + A bar chart showing sales by pizza\_category.
     + A pie chart displaying the distribution of sales by pizza\_size.
     + A line chart showing sales trends over time.
2. **Using Bookmarks and Buttons:**
   * Add buttons and bookmarks to the dashboard to navigate between different views (e.g., monthly sales trends, top-selling pizzas, etc.).
3. **Page Navigation and Custom Tooltips:**
   * Implement page navigation buttons to switch between the main dashboard and detailed reports. Create custom tooltips to show additional information when hovering over data points in charts.

**PART C**

**SUBMISSION MODE**

You are expected to submit your assignment a week after it was given, with this, Submission starts from Friday at 7am Nigerian time to Saturday at 3pm Nigerian time.

This submission will be done either on Twitter or LinkedIn, you can choose either of the two to submit your assignment or you can submit on both platforms. You would take a screenshot of your work Answers, you can add a write up if you want.

**For twitter Submission, you would tag:**

1. The TDI Official page @TDataInitiative
2. Annie @ DabereNnamnai
3. Ade @JacobAjala
4. Tag @MSPowerBI
5. Use the #TDI

**For LinkedIn Submission, you would tag:**

1. TDI page @TheData Initiative
2. Annie @ Anne Nnamani

**PART D**

**CORRECTION CLASS**

Correction Classes, holds every Saturday, 4pm-6pm Nigerian time.

Venue: The TDI official Discord page or a google meet link will be sent.