**GIRLS IN TECH NIGERIA**

**DATA**

**ANALYTICS 2024 FINAL PROJECT**

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CONGRATULATIONS DATA ANALYST

Well Done on completing your Data

Analytics Intermediate class

We have put this Project together

to help further cement your

knowledge of the specific

technologies you have learnt in

your classes.



**SUPPORT**

Support and advice during your Project is available through the accountability group.

If you have any difficulties, please feel free to ask a

question.

**PRESENTATION**

You are expected to prepare an Excel Report, Power BI Report and a PowerPoint presentation for presentation to the class, who will critique your report and advice on how you can develop yourself further.

**EXCEL PROJECT** Using the provided information, design an interactive dashboard comprising the following elements sheet:

• Two key values: 2019 Sales and 2019 Profit.

• A graph illustrating sales and profit breakdown by month • Sales pie chart

• Profit pie chart

• Sales Dashboard table Data • Brief summary and 

recommendation to the

company

**POWER BI**

**PROJECT**

**REPORTING**

Upon completion of your project, you will need to submit your PowerPoint under the following headings

- Executive summary

- Key findings /Solutions (in bullet points)

• 1

• 2 etc.

- Recommendations (to the business, based on your solutions)

- Conclusion

**Discount Band Discount Rate** None **-**

Low **1%**

Medium **5%**

High **10%**

**INSTRUCTION**

Use Power BI solely for your analysis

**ANALYSIS SCENARIO**

Using the Office Supply dataset **1.** Calculate

**a.** Gross Sales

**b.** Discount (use the discount rate) **c.** Revenue

**d.** Profit before Tax

**e.** Profit Margin

**f.** Tax on Profit (tax rate 5%) **g.** Profit after Tax

**2.** Create a report overview for: **a.** Segment

**b.** State

**c.** Product

**3.** Produce a report on all products sold between January and December 2014,

showing number of sales, sales proportions and financial performance. Ensure

your analysis can be used to determine whether thereis growth or decline on

any of the product lines.

**4.** Compare 2013 Q4 and 2014 Q4 figures to highlight year on year results.

Reproduce the report at higher levels such as Product category and State.

**5.** What key products are the drivers of performance?

**6.** If we would like to discontinue any product sub dueto poor outcomes, what

would this be?

**7.** What product do we pay the highest tax on? **a.** Overall 

**b.** For each state

**c.** For each segment

**For the discount question, this will require the IF function, follow the link below to understand the IF function**

**https://docs.microsoft.com/en us/dax/if-function-dax** 

**Explore the website to**

**understand and learn other DAX functions**

**THEORY QUESTIONS**

1. What is Data Analysis?

2. What is Spreadsheet, it’s uses and importance?

3. What is a formula and a function?

4. Key difference between a formula and a function 

5. What is Query?

6. What is Query Language?

7. What is a Database?

8. What is Analytical Thinking?

9. Who is a Data Analyst and their roles?

10.What do you understand by the term “Data Driven Decision Making”? 11.Mention and explain the phases of Data Analysis Process.

12.Mention 3 basic structure of a SQL query and explain.

13.What are the 3 main basic tools analyst use?

14.What is Data Life Cycle and the 6 stages of Data Life Cycle?

15.Difference between Data Analysis Phase and Data Life Cycle

16.What’s one unique set of guideline every programming language follow and why?

**THANK YOU**

**DATA QUEENS PRESENTED BY: OBODO ANNA**

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