

JAIPURIA INSTITUTE OF MANAGEMENT, NOIDA

Second Year, Term IV, June 2024

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| Course Name | Data Visualization | Course Code | 4105 |
| Max. Time | 2 hours | Max. Marks | 70 MM |

INSTRUCTIONS:

- Please do write the answers for questions 1-19 in a word document.
- Q20 to be done in Power desktop and to be performed on the dataset attached.
- For Q1-Q19 please write the answer in crisp.
- After attempting Q20 please convert the power bi file to PDF and send both the word and PDF files to me separately.

Q1. Full form of DAX in Power BI? Name the option to be selected in the data panel to insert a DAX query in Power BI. (Marks : 2)

Q2. Mention the types of relationships in Power BI required for connecting data having unique set of rows and the data having non unique set of rows. (Marks 2)

Q3. Write the name of the option for changing the width of the canvas in Power BI.(Marks : 1)

Q4. Name the join use for connecting only common elements between two datasets. (Marks : 1)

Q5. Which option is used for refreshing the data in the data panel. (Marks : 1)

Q6. File extension of Power BI Desktop. (Marks : 1)

Q7. Open-source Power BI component is called _____.(Marks : 1)

Q8. Name the join use for connecting all elements of right-side dataset and only common elements of left side dataset. (Marks : 1)

Q9. In stack column chart legends are shown one over the other or by separate columns.(Marks : 1)

Q10. Which is the best option of syntax for VLOOKUP in Excel. (Marks : 1)

- =VLOOKUP(Reference Cell, Table Range(Unfreeze), False, Column Index number)
- =VLOOKUP(Reference Cell, Table Range (Freeze), False, Column Index number)
- =VLOOKUP(Reference Cell, Table Range (Freeze), Column Index number, False)
- All of the above

Q11. Write the best option for selecting the first step after loading the data in Power BI Dashboard. (Marks : 1)

- Summarize every column in the dataset
- summarize every row in the dataset
- Don't Summarize every column in the dataset
- Don't Summarize every row in the dataset

Q12. Which function is used for applying Vlookup in Power BI Desktop. (Marks : 1)

- Vlookup
- Virtual Lookup
- Lookupvalue
- Valuelookup

Q13. When non unique set of rows are combined with non unique set of rows. This type of relationship is called.(Marks 1)

Q14. Total debit and credit amount are same in financial reporting data. True or False.(Marks 1)

Q15.Name the view use exactly like that of an excel sheet in Power BI.(Marks 1)

Q16.Option name for adding border to the view in Power BI.(Marks 1)

Q17.Option name for adding title of the table view in Power BI.(Marks 1)

Q18. Option name for adding background color of the table view in Power BI.(Marks 1)

Q19. Option name for loading a data in Power BI.(Marks 1)

Q20. Case Study :

You are the data analytics consultant of DHU Ltd. A major staffing company in America i.e. ABC Ltd., signed a contract with your organization. The business analytics director of ABC wants to perform a financial reporting audit (Period : Oct-2022 to Sep-2023) for his organization. The director connects with the CFO of DHU Ltd. and provides the necessary data on which the auditing will be done. As the starting procedure of the audit the director of ABC Ltd. wants DHU Ltd. to perform all the required analytics in order to decrease the sample size for testing. The CFO of DHU Ltd. wants you to perform these analytics on Power BI to make the deliverables more precise and presentable. The CFO asks you to perform the following analytics on Power BI :

Make 2 tabs in the name as "General Overview" and "Journal Profiling".

Instructions for composing "General Overview" tab:

- 1) Design a stack column chart of manual and automatic entries with respect to Debit amount along with beautification. (Marks : 4)
- 2) Evaluate the card for unique count of "Journal IDs", sum of "Total Debit Amount" and sum of " Total Credit Amount", slicer of "Month Year"(only month name and year).(Marks : 12)
- 3) Assess the unique count of Journal IDs as per amount in USD in the form of a stack column chart. (Take 1 USD = 4.60 American Dollar) (Marks : 6)
- 4) Estimate the delay in the entries entered after the FRP due date (to be marked in the main sheet in excel before loading the dashboard) with the formation of Table along with a "Delay" column created by a DAX Query. (Marks : 6)
- 5) Conclude all the base data in a form of Raw table at the bottom of the tab. (Marks : 2.5)

Instructions for making "Journal Profiling" tab:

- 1) Design a clustered column chart of manual and automatic entries with respect to Debit amount along with beautification. (Marks : 4)
- 2) Compare the count of automatic and manual Journal IDs with the help of measures in a form of a table.(Marks : 6)
- 3) Simplify the debit amounts of Round entries according to the posting month-year in ascending order in the form of a percentage bar chart. (Marks : 6)
- 4) Conclude all the base data in a form of Raw table at the bottom of the tab.(Marks : 2.5)

the way to convert a Power BI file to PDF.

Path - Go to "File" --- "Export" ---- "Export to PDF"