B.Com (Business Analytics) CBCS Semester - V <u>*W.E.F. 2021-22*</u>

Advanced Data Visualization - Paper: 503

Time: 60 Minutes

Record	: 10
Viva-voce	: 10
Skill Test	: <u>15</u>
Total Marks	: <u>35</u>

Power Bi and Tableau:

I. **From the file given below show the following data visualization in Power BI.**
    Create a dash board of sales with KPIs and also establish the relational data models.

> <u>FINANCIAL SAMPLE LINK</u>
> 1. Percentage of total '**Gross Sales**' for each Month.
> 2. Top 3 '**Month Name**' and **Gross Sales**.
> 3. **Sales** by **Country** and Product. (Insert pivot table)
> 4. **Sales price** by Date and Country. (Insert pivot chart)
> 5. **Manufacturing price** by **Product** and **Year**.
> 6. Segment and Units sold. (Insert pivot chart)
> 7. Discount and **Manufacturing price**. (Insert pivot table and chart)
> 8. Year and Discounts. (Insert doughnut chart)
> 9. Frequency of **manufacturing price**.
> 10. COGS and **Profit find Correlation** through **Scatter Plot**.

II. **From the file given below show the following data visualization in Power BI.**

> *<u>GLOBAL SUPER STORE ORDERS LINK</u>*
> 11. Percentage of **total sales** for each '**Ship mode**'.
> 12. Category with **total sales** higher than 4744000.
> 13. Insert a pivot table shipping cost by category, region and segment.
> 14. Discount by **ship mode**.
> 15. Quantity by segment and category.
> 16. Make a decomposition table.
> 17. Quantity over ship date (line chart).
> 18. Country and sales _____ country/profit / Quantity. Provide the decomposition table and the maps.
> 19. Ship mode & profit (doughnut chart).
> 20. Discount shows a repeating pattern over ship date.
>
> Create a dashboard of sales and profit with KPIs and generate a report.

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III. From the file given below show the following data visualization in Power BI.
 <u>FRAUD INSURANCE CLAIM CSV LINK</u>

21. Use Power Query to transform the data
22. Percentage of total "**capital loss**" for each '**Insured Education level**'.
23. '**Incident city**' with total 'vehicle- claim' higher than 6102000.
24. 'Policy no' by 'Incident -severity '**authorized contracted**' and '**fraud reported**'.
25. Find the key performance indicators of claims.
26. Capital loss and policy bind date.
27. Present the decomposition table of claims with respect to age, gender, umbrella limit, total claim and fraud report.
28. Present a dash board of the visualizations
29. Give the inferences of the claims.
30. Present a report on the fraud claims.
Create the dash board with the KPIs of capital gains and the fraud reported.

IV. From the file given below show the following data visualization in Tableau.
 <u>FINANCIAL SAMPLE LINK</u>

31. Discounts and Sales. Establish Correlation.
32. Year and Sales. (Doughnut Chart)
33. Profit and Manufacturing price. (Insert Scatter Plot)
34. Frequency of COGS.
35. Segment and Sale Price. (Horizontal bar chart)
36. Segment and Manufacturing price.
37. Sales and COGS. (Scatter Plot)
38. Frequency of Gross Sales. (Bar Chart)
39. Gross Sales and Manufacturing price. (Scatter Plot)
40. Sales and Profit. (Scatter Plot)
Create the dash board of the country wise product, units sold, sales, profit year wise

V. From the file given below show the following data visualization in Tableau
 Fraud insurance claim csv Link

41. Injury claim and vehicle claim. (find correlation
42. Months Vs. customer -policy bind rate
43. How is total claim and injury claim
44. How age and injury are claim, what relation exists? Do you see any outliers?
45. What relation exists between age and property claim. Do you see any outliers at what age and property claims.
46. Find the key performance indicators for frauds
47. Find the key performance indicators for claims
48. Generate a report to present the inferences of claims
49. Generate a report to present the fraud claims.
50. Give a report on how to detect the fraud claims.
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