IBM DATA ANALYST CAPSTONE PROJECT

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ON THE **CURRENT TECHNOLOGY USAGE** DASHBOARD TAB, USE THE DATA ASSET **M5_SURVEY_DATA_TECHNOLOGIES_NORMALISED.CSV** AND CAPTURE THE FOLLOWING METRICS AS VISUALIZATIONS:

In the first rectangle **(Panel 1)**:
Capture **Top 10 LanguageWorkedWith**.
Visualize as a **Bar chart**.
Utilize **Bars, Length, Color** fields of Bar chart.
Include **Show value labels** feature.
Include a proper **Chart title**.

In the second rectangle **(Panel 2)**:
Capture **Top 10 DatabaseWorkedWith**.
Visualize as a **Column chart**.
Utilize **Bars, Length, Color** fields of Column chart.
Include **Show value labels** feature.
Include a proper **Chart title**.

In the third rectangle **(Panel 3)**:
Capture **PlatformWorkedWith**.
Visualize as a **Word cloud chart**.
Utilize **Words, Size, Color** fields of Word cloud chart.
Include a proper **Chart title**.

In the fourth rectangle **(Panel 4)**:
Capture **Top 10 WebFrameWorkedWith**.
Visualize as a **Hierarchy bubble chart**.
Utilize **Bubbles, Size, Color** fields of Hierarchy bubble chart.
Include a proper **Chart title**.

DOWNLOAD THE 2 FILES M5_SURVEY_DATA_DEMOGRAPHICS.CSV AND M5_SURVEY_DATA_TECHNOLOGIES_NORMALISED.CSV. UPLOAD THESE 2 CSV FILES AS DATA ASSETS TO YOUR PROJECT IN CDE.

CREATE 3 DASHBOARDS (3 SEPARATE TABS UNDER A SINGLE DASHBOARD) AS FOLLOWS:

One dashboard using the 2 x 2 rectangle areas tabbed template - rename this dashboard tab to **Current Technology Usage.**

One dashboard using the 2 x 2 rectangle areas tabbed template - rename this dashboard tab to **Future Technology Trend.**

One dashboard using the 2 x 2 rectangle areas tabbed template - rename this dashboard tab to **Demographics.**
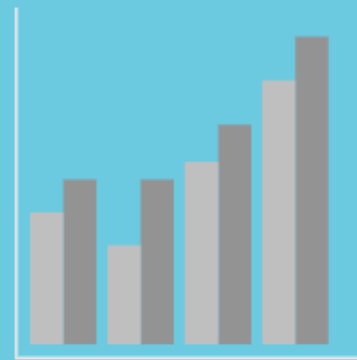
CURRENT TECHNOLOGY TREND

Tab 1

Languages Worked With

Database Worked with

Platform Worked With

jklme

abcde
defghi
wyz
lmnop
qrs
ABC
mnp
GHI
abcde
tuv

Webframe Worked With

- ON THE **FUTURE TECHNOLOGY TREND** DASHBOARD TAB, USE THE DATA ASSET **M5_SURVEY_DATA_TECHNOLOGIES_NORMALISED.CSV** AND CAPTURE THE FOLLOWING METRICS AS VISUALIZATIONS:
- In the first rectangle **(Panel 1)**:

- CAPTURE **TOP 10 LANGUAGEDESIRENEXTYEAR**.
- VISUALIZE AS A **BAR CHART**.
- UTILIZE **BARS**, **LENGTH**, **COLOR** FIELDS OF BAR CHART.
- INCLUDE **SHOW VALUE LABELS** FEATURE.
- INCLUDE A PROPER **CHART TITLE**.

- In the second rectangle **(Panel 2)**:
- CAPTURE **TOP 10 DATABASEDESIRENEXTYEAR**.
- VISUALIZE AS A **COLUMN CHART**.
- UTILIZE **BARS**, **LENGTH**, **COLOR** FIELDS OF COLUMN CHART.
- INCLUDE **SHOW VALUE LABELS** FEATURE.
- INCLUDE A PROPER **CHART TITLE**.

- In the third rectangle **(Panel 3)**:
- CAPTURE **PLATFORMDESIRENEXTYEAR**.
- VISUALIZE AS A **TREE MAP CHART**.
- UTILIZE **AREA HIERARCHY**, **SIZE**, **HEAT** FIELDS OF TREE MAP CHART.
- INCLUDE **CONTRAST LABEL COLOR** FEATURE.
- Include a proper **Chart title**.

- IN THE FOURTH RECTANGLE **(PANEL 4)**:
- CAPTURE **TOP 10 WEBFRAMEDESIRENEXTYEAR**.
- VISUALIZE AS A **HIERARCHY BUBBLE CHART**.
- UTILIZE **BUBBLES**, **SIZE**, **COLOR** FIELDS OF HIERARCHY BUBBLE CHART.
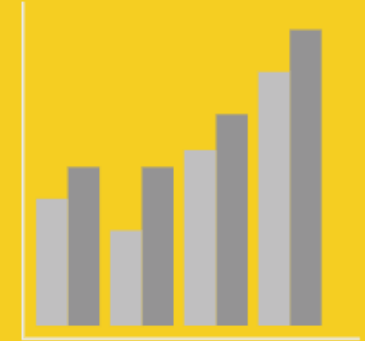- INCLUDE A PROPER **CHART TITLE**.

FUTURE TECHNOLOGY TREND

Tab 1

Language Desire Next Year

Database Desire Next Year

Platform Desire Next Year

WebFrame Desire Next Year

ON THE **DEMOGRAPHICS** DASHBOARD TAB, USE THE DATA ASSET **M5_SURVEY_DATA_DEMOGRAPHICS.CSV** AND CAPTURE THE FOLLOWING METRICS AS VISUALIZATIONS:

Use **Filters for this tab** feature to filter out entries of other types except **Man** and **Woman** from the data point **Gender**.

In the first rectangle **(Panel 1)**:

Capture **Respondent classified by Gender**.

Visualize as a **Pie chart**.

Utilize **Segments**, **Size** fields of Pie chart.

Include **Dispay %** feature.

Include a proper **Chart title**.

In the second rectangle **(Panel 2)**:

Capture **Respondent Count for Countries**.

Visualize as a **Map chart**.

Utilize **Regions-Locations**, **Regions-Location color** fields of Map chart.

Include a proper **Chart title**.

In the third rectangle **(Panel 3)**:

Capture **Respondent Count by Age**.

Visualize as a **Line chart**.

Utilize **x-axis**, **y-axis** fields of Line chart.

Include **Show value labels** feature.

Include **Show markers** feature.

Include a proper **Chart title**.

In the fourth rectangle **(Panel 4)**:
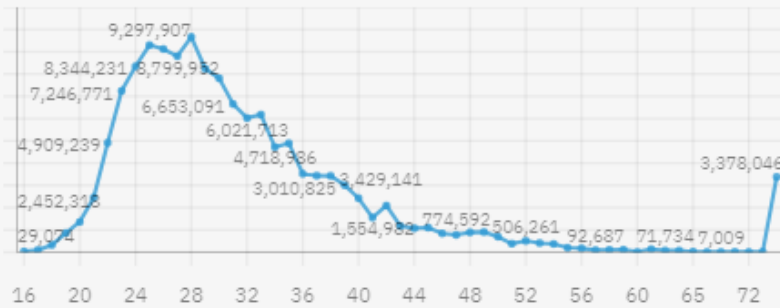
Capture **Respondent Count by Gender, classified by Formal Education Level**.

Visualize as a **Stacked bar chart**.

Utilize **Bars**, **Length**, **Color** fields of Stacked bar chart.

Include **Show value labels** feature.

Include a proper **Chart title**.

DEMOGRAPHICS