

Peer-Graded Assignment: Building a dashboard with Cognos Dashboard Embedded (CDE)

Estimated time needed: 45 minutes

In this assignment, you will create some visualizations and add them to dashboards using Cognos Dashboard Embedded (CDE).

Software Used in this Assignment

In this assignment you will use the free lite plan version of Cognos Dashboard Embedded (CDE) through IBM Cloud.

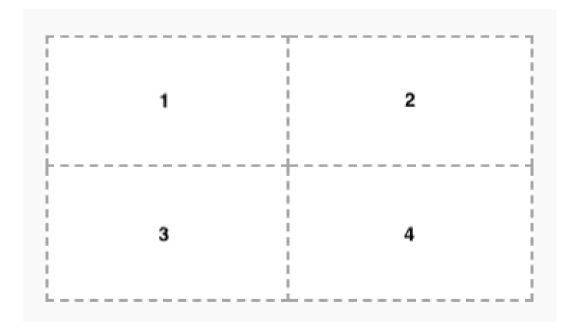
Dataset Used in this Assignment

The dataset you are going to use in this assignment comes from the following source: https://stackoverflow.blog/2019/04/09/the-2019-stack- overflow-developer-survey-results-are-in/ under a ODbL: Open Database License.

We are using a modified subset of that dataset for the assignment, so to follow the assignment instructions successfully, please use the dataset provided with the assignment, rather than the dataset from the original source.

Guidelines for the Submission

- 1. 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.
- 2. 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**.



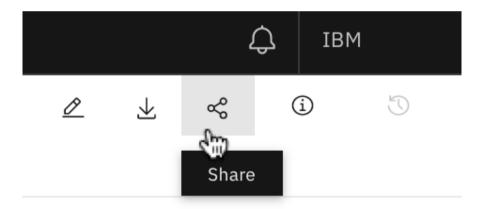
- 3. On the Current Technology Usage dashboard tab, use the data asset m5 survey data technologies normalised.csv and capture the following metrics as visualizations:
 - In the first rectangle (Panel 1):
 - Capture Top 10 LanguageWorkedWith.
 - Visualize as a Bar chart.
 - Utilize Bars, Length, Color 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**.
- 4. 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):
 - **a** 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**.
- 5. 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.

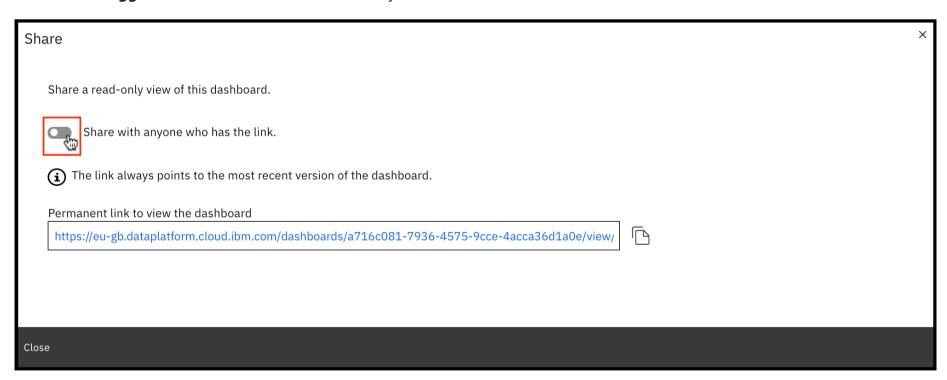
Include Dispay % feature.

Include a proper Chart title.

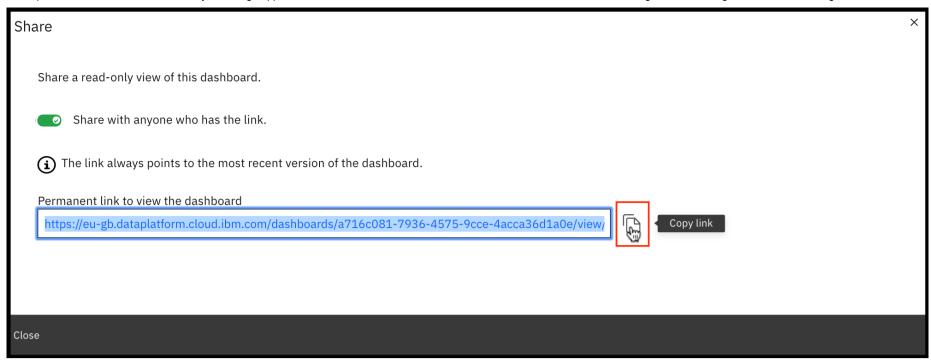
- In the second rectangle (Panel 2):
 - Capture Respondent Count for Countries.
 - Visualize as a Map chart.
 - Utilize Regions-Locations, Regions-Location color fields of Map chart.
 - Include a proper Chart title.
- In the third rectangle (Panel 3):
 - Capture Respondent Count by Age.
 - Visualize 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**.
- 6. To get the Permanent link of read-only view of the dashboard, follow instructions below:
 - On the application toolbar of your dashboard page, click Share icon.



Click on the toggle button to turn on "Share with anyone who has the link".



o Click on the copy link icon to copy the "Permanent link to view the dashboard". This link always points to the most recent version of your dashboard. This link will be required to submit for your assignment to be graded.



Grading Information

For your assignment to be graded in a subsequent step in this module, you will be required to submit the permanent link of read-only view of the dashboard you got in Task 6.

The main grading criteria will be:

- Have you provided permanent read-only view CDE link which opens your valid Cognos dashboard?
- Have the correct tabs been created?
- Have you created the required number of visualizations for each tab of the dashboard?
- Have you captured the correct metrics, chart types, chart features and titles for each visualization?
- Are the results correct?

You will not be judged on:

Your English language, including spelling or grammatical mistakes.

Author(s)

• Sandip Saha Joy

Other Contributor(s)

Changelog

Date	Version	Changed by	Change Description
2020-10-23	1.0	Sandip Saha Joy	Initial version created

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