



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.

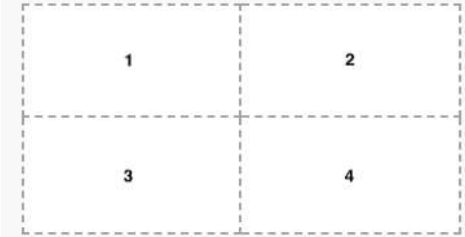
Dataset Used in this Assignment

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

- 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**.

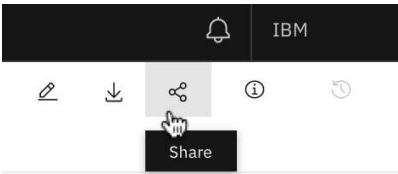


- On the **Current Technology Usage** dashboard tab, use the data asset **m5_survey_data_technologies_normalised.csv** and capture the following metrics as visualizations:

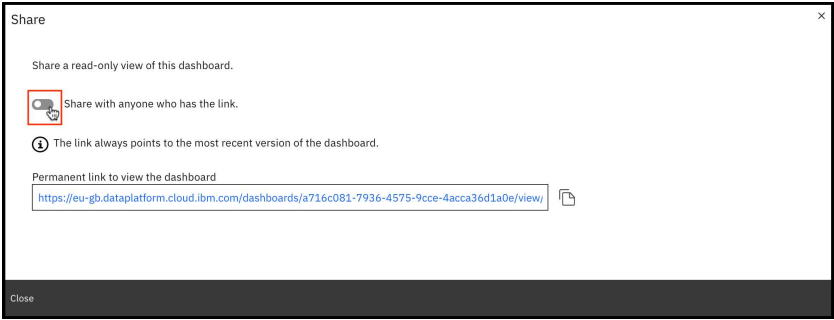
- In the first rectangle (**Panel 1**):
 - Capture **Top 10 LanguageWorkedWith**.
 - Visualize as a **Bar chart**.
 - Utilize **Bars, Length, Color** fields of Bar chart.
 - Include **Show value labels** feature.
 - Include a proper **Chart title**.
- In the second rectangle (**Panel 2**):
 - Capture **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**.

- On the **Future Technology Trend** dashboard tab, use the data asset **m5_survey_data_technologies_normalised.csv** and capture the following metrics as visualizations:

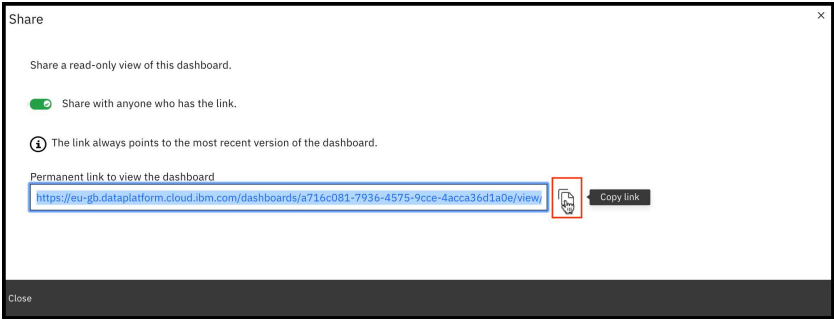
- In the first rectangle (**Panel 1**):
 - Capture **Top 10 LanguageDesireNextYear**.
 - Visualize as a **Bar chart**.
 - Utilize **Bars, Length, Color** fields of Bar chart.
 - Include **Show value labels** feature.
 - Include a proper **Chart title**.
- In the second rectangle (**Panel 2**):
 - Capture **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.



- Click on the **toggle button** to turn on “Share with anyone who has the link” .



- 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)

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Changelog

Date	Version	Changed by	Change Description
2023-05-10	1.1	Eric Hao & Vladislav Boyko	Updated Page Frames
2020-10-23	1.0	Sandip Saha Joy	Initial version created