



Peer-Graded Assignment: Final Assignment – Part 2

Estimated time needed: 45 minutes

You have now completed the first part of this final assignment. In this second part of the final assignment, you will create some visualizations and add them to a dashboard using Cognos Analytics.

Software Used in this Assignment

The hands-on lab in this assignment will use the trial version of Cognos Analytics from IBM.

Dataset Used in this Assignment

The dataset used in this lab comes from the following source: <https://community.ibm.com/accelerators/?context=analytics&type=Data&product=Cognos%20Analytics&industry=Automotive> in the **IBM Accelerator Catalog**. The Terms of use for such are located at <https://developer.ibm.com/terms/ibm-developer-terms-of-use/>.

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

Assignment Scenario

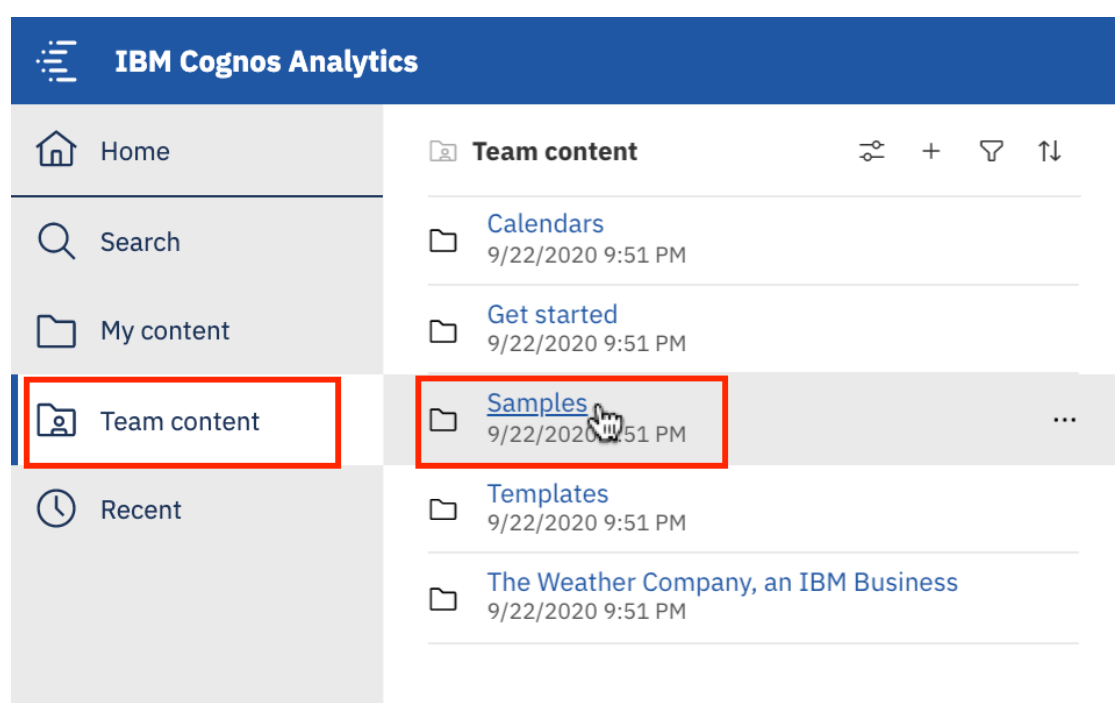
As a regional manager for a chain of car dealerships you need to build out a dashboard to allow you to understand your sales and service departments.

Accessing the Dataset for this Final Assignment

The dataset used in this final assignment is provided as sample data within your Cognos environment, in a data module called **Auto group data module**.

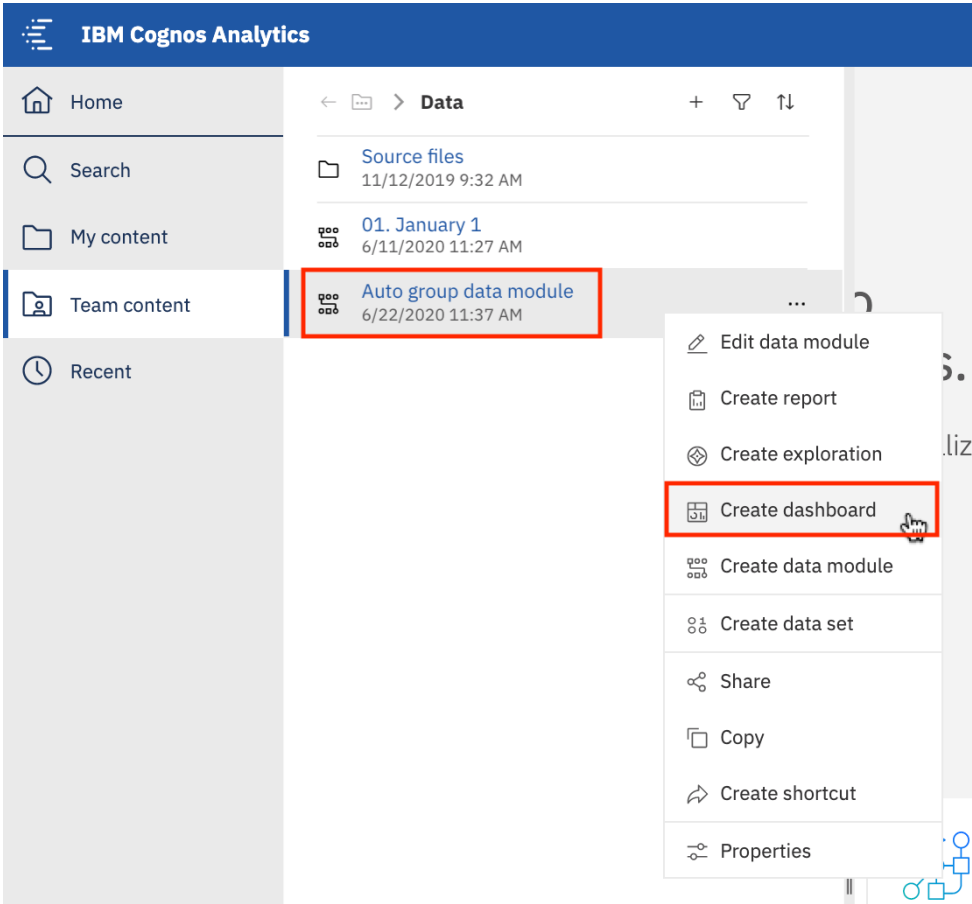
To load and open the data module:

1. On the **navigation panel** of Cognos Analytics, select **Team content**. Then select **Samples**.



2. Now go to **By industry > Automotive > Data**.

3. Here the sample data used in this final assignment can be found, in a data module called **Auto group data module**. Right-click on **Auto group data module** and select **Create Dashboard**.

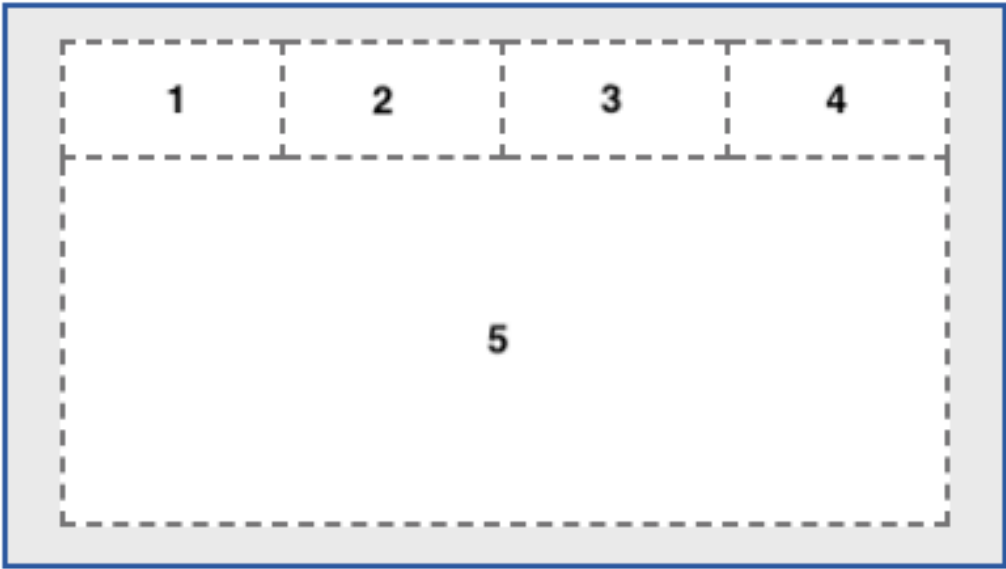


Guidelines for the Submission

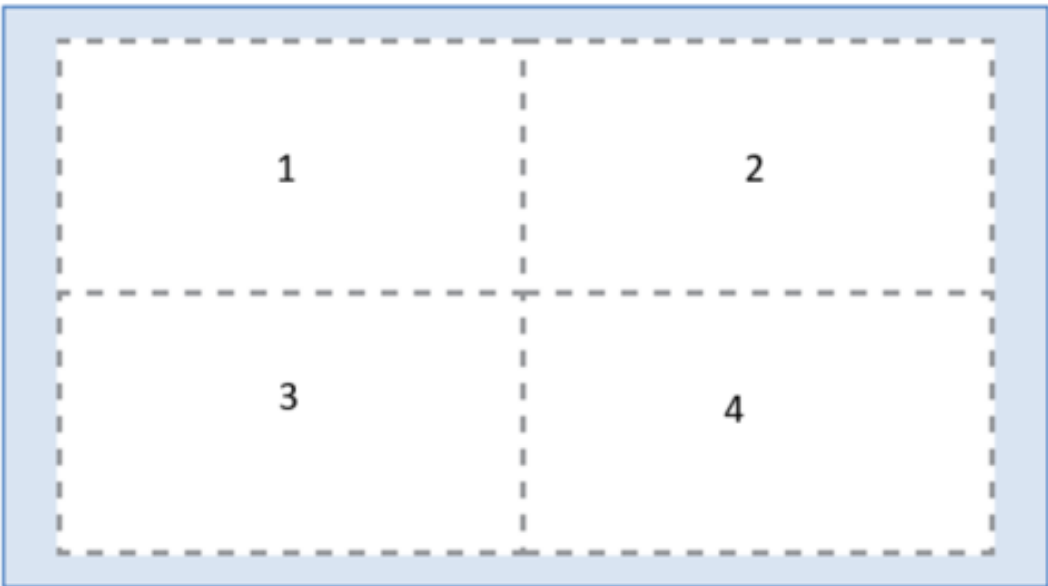
Use the course videos and hands-on lab from Module 2 Lesson 2 ‘Creating Dashboards Using IBM Cognos Analytics’ to help you complete the following tasks:

Create two dashboards as follows:

- One dashboard using the tabbed template that has 4 small rectangles at the top and a large rectangle below - rename this dashboard tab to **Sales**.



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



Capture the following KPI metrics as visualizations:

1. On the **Sales** dashboard, capture the following KPI metrics:
- In the first small rectangle (**Panel 1**), capture **Profit** (formatted to 1 decimal place in millions of US dollars)

◦ In the second small rectangle (**Panel 2**), capture **Quantity sold**

◦ In the third small rectangle (**Panel 3**), capture **Quantity sold by model** (as a bar chart)

◦ In the fourth small rectangle (**Panel 4**), capture **Average quantity sold**
2. On the **Sales** dashboard in the large rectangle (**Panel 5**), display 'Profit' by 'Dealer ID' as a column chart, sorted in ascending order.
3. On the **Service** dashboard, capture the following KPI metrics as visualizations:
- In the top left area (**Panel 1**), capture the number of recalls per model of car (as a column chart)

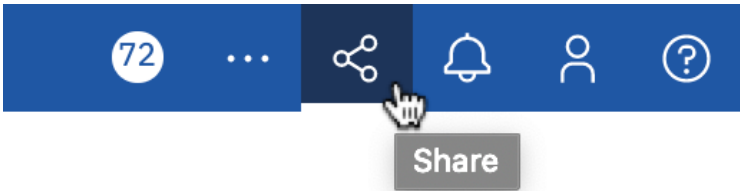
◦ In the top right area (**Panel 2**), capture the customer sentiment by comparing positive, neutral, and negative reviews (as a treemap)

◦ In the bottom left area (**Panel 3**), capture the quantity of cars sold per month compared to the profit (as a line and column chart).

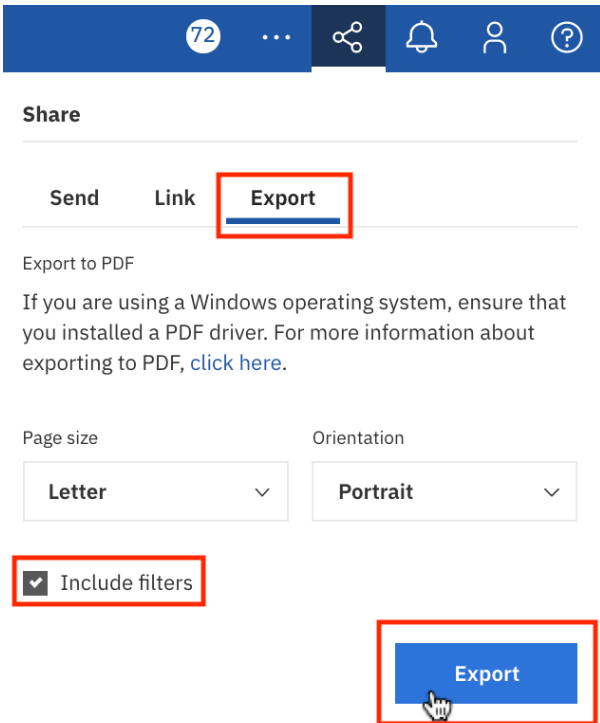
◦ In the bottom right area (**Panel 4**), capture the number of recalls by model and affected system (as a heat map). This will help us understand if there are any outliers for a given model or a specific system.

4. To export your dashboard as a PDF, follow instructions below:

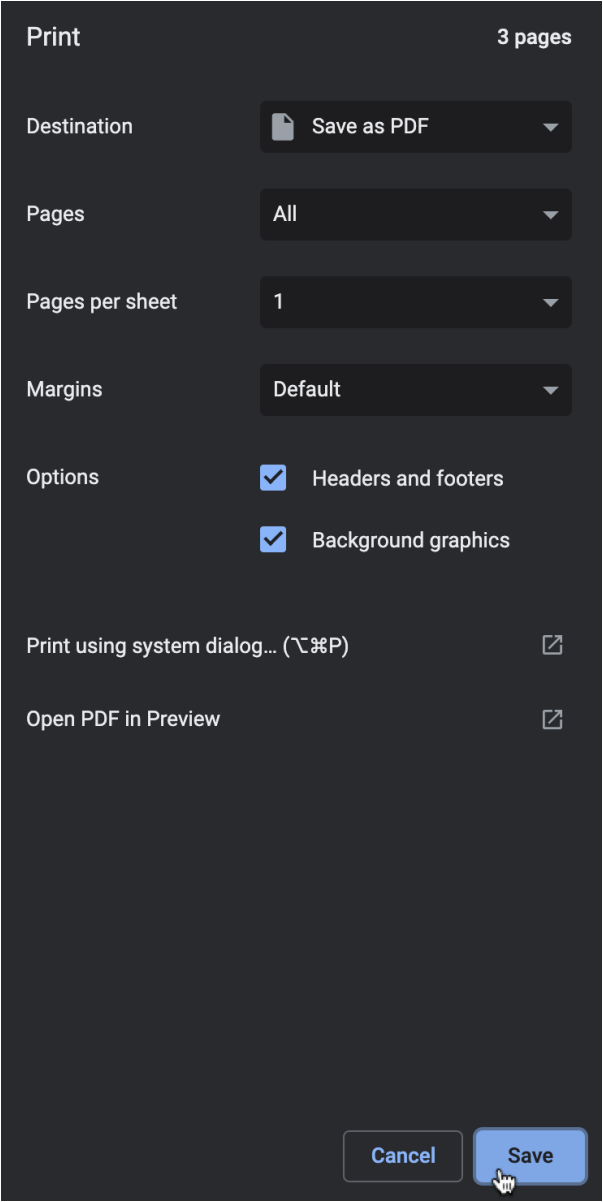
- On the application toolbar of your **dashboard page**, click **Share** icon.



- On the **Export** tab, check **Include filters** and click **Export**.



- On the **Print** pop-up page, in the **Destination** drop-down list, select **Save as PDF**.



- Save the PDF file on your local machine to any location you like (preferably your **Downloads** folder) for later upload and submission to the coursera platform.

Grading Information

For your assignment to be graded in a subsequent step in the course, you will be required to upload the PDFs of your Cognos Analytics dashboards that you exported to your Downloads folder in Task 4. You will upload these exported PDFs to the Coursera platform as part of your submission. (**Important:** If you cannot export your dashboards as PDFs for any reason, then you must take screenshots of your two dashboards, and submit these for grading instead).

The **main grading criteria** will be:

- Have the correct tabs been created?
- Have you captured the correct metrics?
- Are the results correct?
- Have you used the appropriate visualizations on the dashboard?

You **will not be judged on**:

- Your English language, including spelling or grammatical mistakes.
- The content of any text or image(s) or where a link is hyperlinked to.

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Other Contributor(s)

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Changelog

Date	Version	Changed by	Change Description
2020-11-13	1.3	Steve Ryan	Modified submission step 3 for panel 3

Date	Version	Changed by	Change Description
2020-10-21	1.2	Steve Ryan	Added steps to Export as PDF
2020-10-13	1.1	Sandip Saha Joy	ID review
2020-10-12	0.1	Steve Ryan	Initial version created in GitLab

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