

# Hands-on Lab: Creating Visualizations Using Google Looker Studio

Estimated time needed: 1hr 15 mins

In this lab, you will create some visualizations and add them to a dashboard using Google Looker Studio.

#### **Software Used in this Lab**

The hands-on lab will use the free version of Google's Looker Studio

#### **Dataset Used**

The dataset used in this lab comes from the IBM Accelerator Catalog and can be downloaded from here.

The Terms of use for such are located at <a href="https://developer.ibm.com/terms/ibm-developer-terms-of-use/">https://developer.ibm.com/terms/ibm-developer-terms-of-use/</a>.

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.

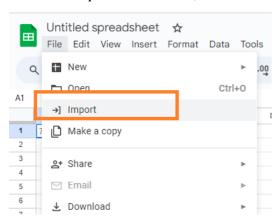
### **Assignment Scenario**

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 the Google Looker Lab of the Final Assignment

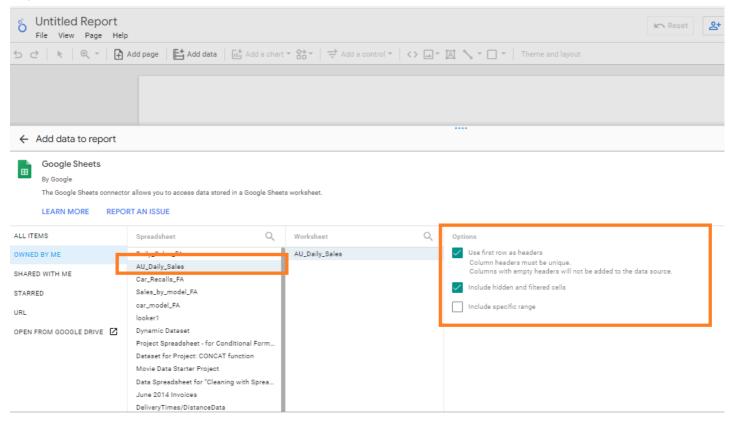
You need to download this dataset (all files) and import them into your Google Drive.

- Upload all these files in your drive. Use the Google Sheets connector in Looker Studio to connect with these Excel worksheets to add data into your report
- In case it doesn't show the files while adding, then, open a blank Google Sheet in your drive.
- Click on Import from the File menu, and then select the relevant file from your drive.



• Then you can use the *Google Sheets* connector in Looker Studio to connect with these Excel worksheets to add data into your report. Select the data sheets one by one and add them to your report or create a data source.

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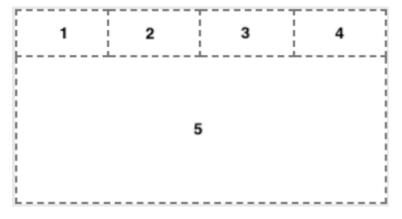
Alternatively you can use the CSV versions of these files, which can be downloaded from here.

#### **Guidelines for the Submission**

Use the course videos and hands-on lab on Creating Visualizations and Dashboards with Google Looker Studio to help you complete the following tasks:

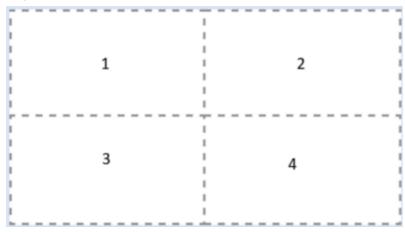
### Create report with two pages as follows:

• One page with 5 different visuals to develop a Sales Dashboard. Rename page one as Sales. You may display the charts on this page as below:



• One page with 4 different charts to represent a Service dashboard- rename this page to Service. You may display the charts on this page as below:

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Capture the following KPI metrics as visualizations:

TASK 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

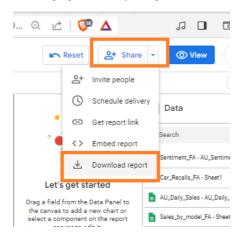
TASK 2: On the Sales dashboard in the large rectangle (Panel 5), display Profit by Dealer ID as a column chart, sorted in ascending order.

TASK 3: On the Service dashboard, capture the following KPI metrics as visualizations:

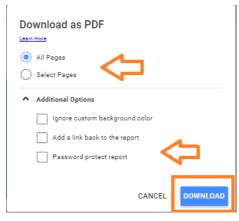
- In the top left area (Panel 1), capture the number of recalls per model of car (as a column chart).
- In the top right area (Panel 2), capture the customer sentiment by comparing positive, neutral, and negative reviews (as a treemap).
- In the bottom left area (Panel 3), capture the quantity of cars sold per month compared to the profit (as a combo chart from line section).
- In the bottom right area (Panel 4), capture the number of recalls by model and affected system (as a pivot table with a heatmap). This will help us understand if there are any outliers for a given model or a specific system.

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

• On the top right corner of your report editor, click on the small triangle of the **Share** button. Then select **Download report**.

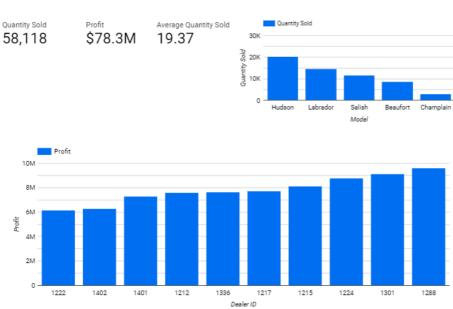


• On the pop up window Download as PDF, click on the All pages radio button. Choose from additional options and then click on download.

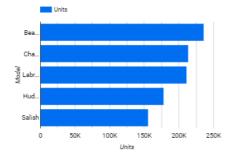


- Save the PDF file on your local machine to any location you like (preferably your **Downloads** folder) for later upload and submission to the coursera platform.
- Your report may look like this:

## SALES



### **SERVICE**







System_Affected / Units					
Model	Suspension	Seats And	Engine	Tires	
Beaufort	31.4K	3.4K	20.8K	-	
Champlain	60.9K	44.4K	7.7K	20.9K	
Labrador	15.5K	13.2K	30.1K	30.3K	
Hudson	4.5K	20.9K	26.8K	11.2K	
Salish		14.2K	3.3K	17.3K	

## Author(s)

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