

Final Project: Milestone #4

CIS 9440 - Data Warehousing for Analytics

Final Project Milestone 4

Group Number: Group 5

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For Project Milestone #4, you/your project group will design and develop a Business Intelligence Application(s) to display your Project KPIs. To accomplish this, you/your project group will complete the following:

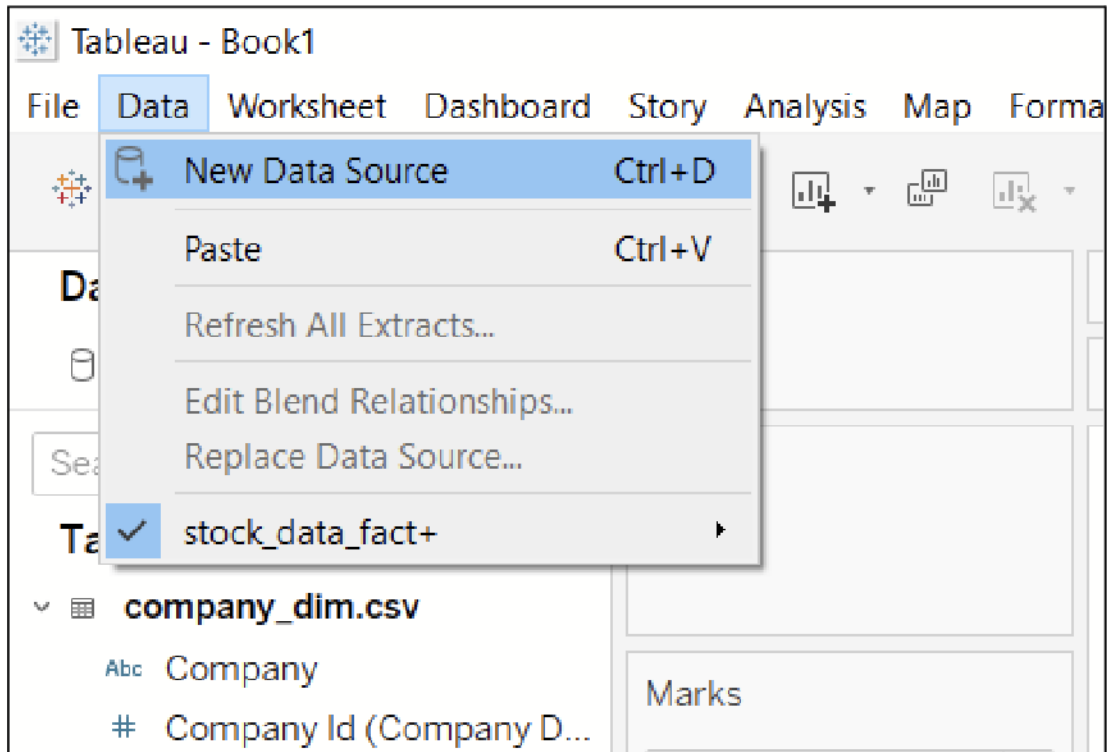
1. From your current KPI's, choose and list the most important 5 KPI's from you will deliver with a BI Application(s). (You may have more than 5, but a maximum of 8)
2. Choose the best type of Visualization for each of your selected KPI's. (example: bar chart, histogram, map, bubble chart, etc.)
3. Create a BI Application Wireframe design (page 364 in Business Intelligence Guidebook) of a Dashboard(s) to display the chosen KPI's. Note, you may design and create multiple dashboards if needed. (example: you could have 3 KPI's on 1 Dashboard, 1 KPI on a Report, and 1 KPI on a scorecard. You choose the best way to display your KPI's)
4. Connect your Facts and Dimensions from **BigQuery to Tableau**, take a screenshot of your "Data Source" tab in Tableau after connecting.

Example:

The screenshot displays the Tableau Desktop interface for configuring a data source. On the left sidebar, the 'Connections' section shows 'BigQuery' as the data source. The 'Billing Project' is set to 'CIS9440', and the 'Project' is also 'CIS9440'. The 'Dataset' is 'sidewalk_cafe_data'. The 'Table' section lists 'business_dim', 'location_dim', and 'sidewalk_fact'. Below the table list, there are options for 'New Custom SQL', 'New Union', and 'Use Legacy SQL'. The main area shows a diagram where 'sidewalk_fact' is connected to 'business_dim' and 'location_dim'. Below the diagram is a table with columns for 'Location Id (L...', 'Latitude', 'Longitude', 'Street', 'Zip', and 'Address Boro...'. The bottom of the interface shows tabs for 'Data Source', 'Sheet 1', 'Sheet 2', and 'Sheet 3'.

#	location_dim	location_dim	location_dim	location_dim	location_dim
	Location Id (L...	Latitude	Longitude	Street	Zip
					Address Boro...

- a. Important note: If you have multiple Fact Tables that **do not have any Conformed Dimensions**, you will need to create a “Data Source” for each Fact table. To create a new Data Source, click “Data -> New Data Source” after connecting your first data source and while on a worksheet tab in Tableau. Each Fact Table without a Conformed Dimension (data source) will still have to connect to the associated DimensionsImage below:



5. Develop each visualization of your Dashboard in a Tableau Worksheet. Make sure to appropriately name each worksheet to easily identify its intended purpose.
6. Put all your worksheets together on a Tableau Dashboard(s). Save your work.
7. Create a “Data Extract” of your data. To do this, select “Data -> hover over data source -> Extract Data”
8. Publish your Dashboard(s) to Tableau Public. You will need to create a (free) Tableau Public account if you do not already have one.
9. **To submit this Milestone #4**, please complete and submit the following template: [link](#)