

Final Project Milestone #4

CIS 9440 - Data Warehousing for Analytics

Final Project Milestone 4

Group Number – 6, alone

Student(s) – Leandro Coimbra

1) List your final set of 5 KPI's.

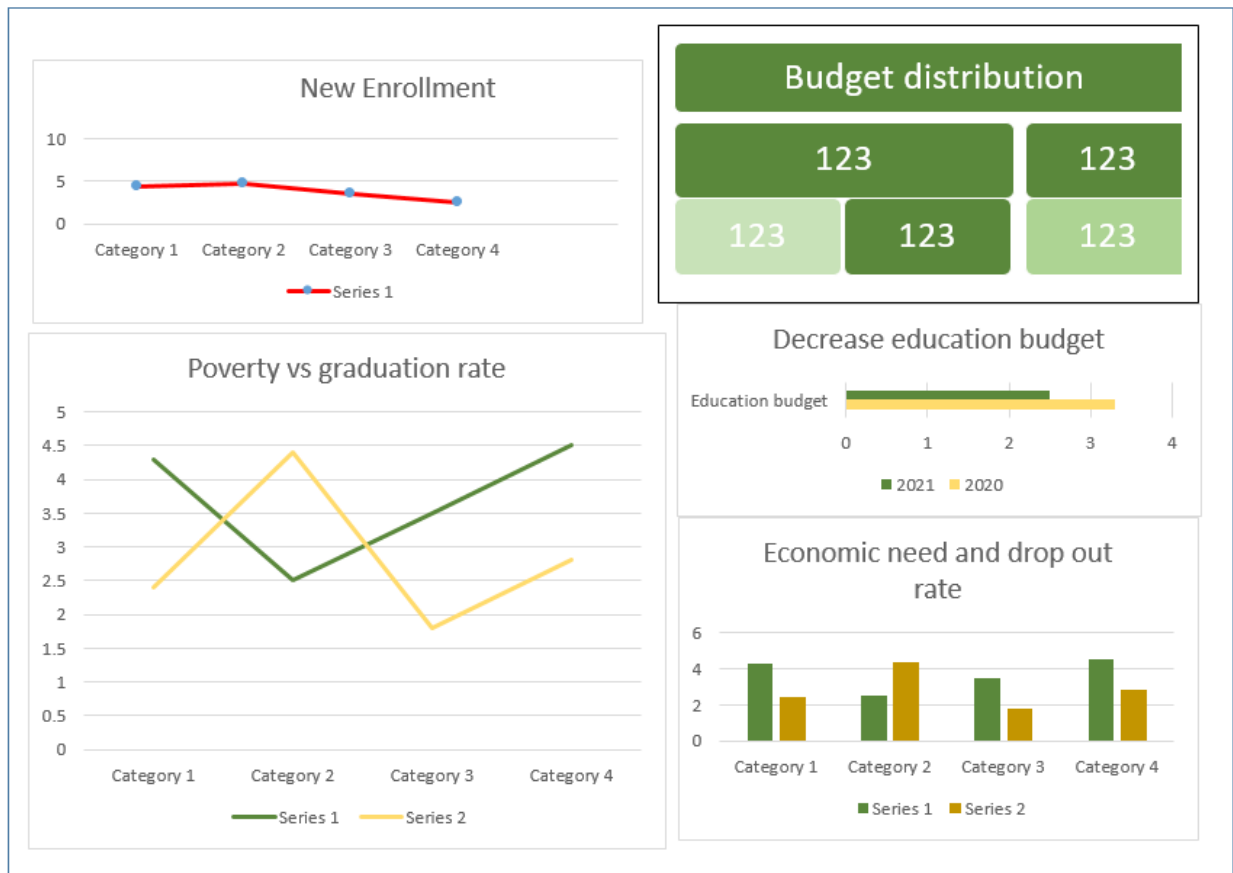
1. The decrease of enrollment in NYC schools per COVID years
2. Reallocation of budget during COVID years
3. Education budget per year
4. Poverty level compared to school graduation
5. Economic need and dropout rate correlation during COVID years

2) Short description of Visualization that will be used for each KPI. Why will you use that type of visualization?

The purpose to use thus type of illustration is to show the pre vs post covid numbers in relation of education budget versus student retention in the New York City schools. I have position the charts in a manner where the user can analyze the data and come to the conclusion that the reallocation of education budget will cause lower graduation rates and more dropouts for the ones that need the most. The budget and expenses are position towards the right and together for easier comparison. All charts are the same color except the enrollment as I wanted to make it the main point of my dashboard.

- The top left line chart is the decrease with new enrollment for student from 9-12 in new York city based on the year 2020 to 2021
- The Budget distribution on the top right is how the budget is being distributed in the current year in the New York City schools.
- The education budget bar chart illustrate how much of the budget was lost reallocated since the last year
- The area Chart shows the correlation of poverty level and school graduation rate are both on the decline since the budget was reallocated
- The economic need and dropout rate can be seen going hand to hand in the column chart.

3) Paste a picture of your BI Application Wireframe (hand drawn image, google draw, any other format).



4) Link to your Tableau Public dashboard. (ensure this link works!)

The screenshot displays the Tableau Desktop interface. On the left, the 'Connections' pane lists several data sources, including 'BigQuery' and '2019-20_Demo...School copy'. The 'Billing Project' is set to 'CIS9440', and the 'Dataset' is 'Final'. The 'Table' pane shows a list of tables, including 'answers_fact', 'budget_dim', 'demographic_dim', 'expense_dim', and 'health_dim'. The main workspace shows a data source named 'Fact.csv' with 4 fields and 9096 rows. A diagram above the data preview shows 'Fact.csv' connected to five other tables: '2005-2019_Graduation_R...', '2019-20_Demographic_Sn...', '2019-2020_Local_Law_14...', 'Independent_Budget_Off...', and 'Independent_Budget_Off...'. The data preview table below has columns: 'Dbn Id', 'School DBN ID', 'Ex Id', and 'Date ID'. The bottom of the interface shows a row of tabs, including 'Data Source', 'Number of Students from 9-12', 'Poverty and Dropout rate per Year', '2020 Expenses vs 2018?', 'Economic Need vs Avg Graduat...', 'Dep education budget', 'Heath budget', and 'Final Project Dashboard'.

Connections

BigQuery
Google BigQuery

2019-20_Demo...School copy
Text file

2005-2019_Gra...n_Rates...All
Text file

Billing Project
CIS9440

Project
CIS9440

Dataset
Final

Table

answers_fact

budget_dim

demographic_dim

expense_dim

health_dim

New Custom SQL

New Union

Use Legacy SQL

2019-20_Demographic_Snapshot_-_School.csv+ (Multiple Connectio...

Connection
Live Extract

Filters
0 Add

Fact.csv

2005-2019_Graduation_R...

2019-20_Demographic_Sn...

2019-2020_Local_Law_14...

Independent_Budget_Off...

Independent_Budget_Off...

Fact.csv

4 fields 9096 rows

100 rows

Name	Type	Field Name	Physical Table	Remote Field ...
Fact.csv	Table	Dbn Id	Fact.csv	DBN_ID
Fact.csv	Table	School DBN ID	Fact.csv	School_DBN_ID
Fact.csv	Table	Ex Id	Fact.csv	EX_ID
Fact.csv	Table	Date ID	Fact.csv	Date_ID

Dbn Id	School DBN ID	Ex Id	Date ID
01M015	01M292	1	3/10/2020 12:00:00 AM
01M015	01M448	2	3/11/2020 12:00:00 AM
01M015	01M450	3	3/12/2020 12:00:00 AM
01M015	01M458	4	3/13/2020 12:00:00 AM
01M015	01M509	5	3/16/2020 12:00:00 AM
01M019	01M515	6	3/17/2020 12:00:00 AM
01M019	01M539	7	3/18/2020 12:00:00 AM
01M019	01M650	8	3/19/2020 12:00:00 AM

Data Source

Number of Students from 9-12

Poverty and Dropout rate per Year

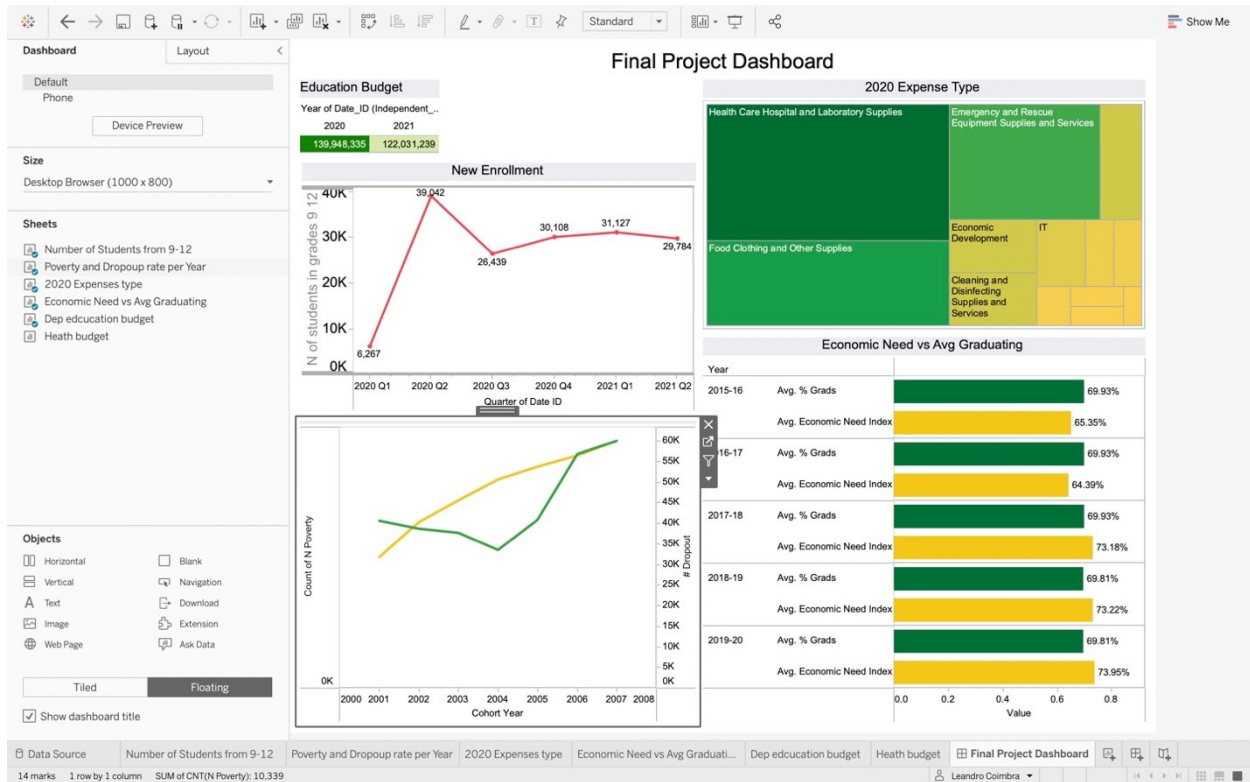
2020 Expenses vs 2018?

Economic Need vs Avg Graduat...

Dep education budget

Heath budget

Final Project Dashboard



(Optional, 5) Any notes for the professor about your visualization or template submission.

Tableau public link:

https://public.tableau.com/views/LC_FinalDashboard/FinalProjectDashboard?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Final Project Dashboard

