

POWER BI Workshop

Here is our data:

LINK	CSV file
https://data.sandiego.gov/datasets/drinking- water-sample-sites/	Sample Sites: sample_sites_datasd_v1.csv
https://data.sandiego.gov/datasets/monitoring- of-indicator-bacteria-in-drinking-water/	Latest Drinking Water Tests (Bacteria): latest_indicator_bac_tests_datasd_v1.csv
	All Drinking Water Tests (Bacteria): indicator_bacteria_tests_datasd_v1.csv

- 1) Connect files and open Power Query Editor
- 2) Turn the first row in indicator_bacteria_tests_datasd_v1 query into the column names
- If latest_indicator_bac_tests_datasd_v1 data is not included in indicator_bacteria_tests_datasd_v1 append data. If data is included then delete table.
- 4) Delete unrequired columns
- 5) Merge Queries. Select all fields from table **indicator_bacteria_tests_datasd_v1** and add matching fields from **sample_sites_datasd_v1**. Remove "nulls"
- 6) Load the queries into the data model.
- 7) Go to Model and link latest_indicator_bac_tests_datasd_v1 data to sample_sites_datasd_v1
- 8) Create a map using Latitude and Longitude fields.
- 9) Show in the map all the areas where Coliform was present during the last year.
- 10) Add to the report a table identifying zone names
- 11) Add table identifying zones with coliform during years 2021 and 2022. Include the date sampled.

M-Language vs DAX:

M-language: Power Query formula language. It is used in data transformation. It is applied before you load the data into the data model.

DAX: Data analysis Expression language. It is the language used in data model. It is made for analytical data calculations (comparable to Excel functions.) It is applied to create insights into our data and data model.

https://docs.microsoft.com/en-us/dax/