

WELCOME

Icebreaker

WHAT'S THE BEST ADVICE YOU'VE EVER RECEIVED?



Learn Power BI

Analyzing San Diego Drinking Water Data

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 [meetup.com/DataAnalyticsSanDiego](https://www.meetup.com/DataAnalyticsSanDiego)

What is Power BI ?

Power BI
is a business intelligence tool

Data Preparation & Analysis

Visualization

Collaboration & Sharing

Power BI Toolset



Power BI Desktop

- Windows Only

Datasets
Visuals
Reports



Power BI Service (Pro)

- Website Login

Datasets
Visuals
Reports

Dashboards
Collaboration
Share Results

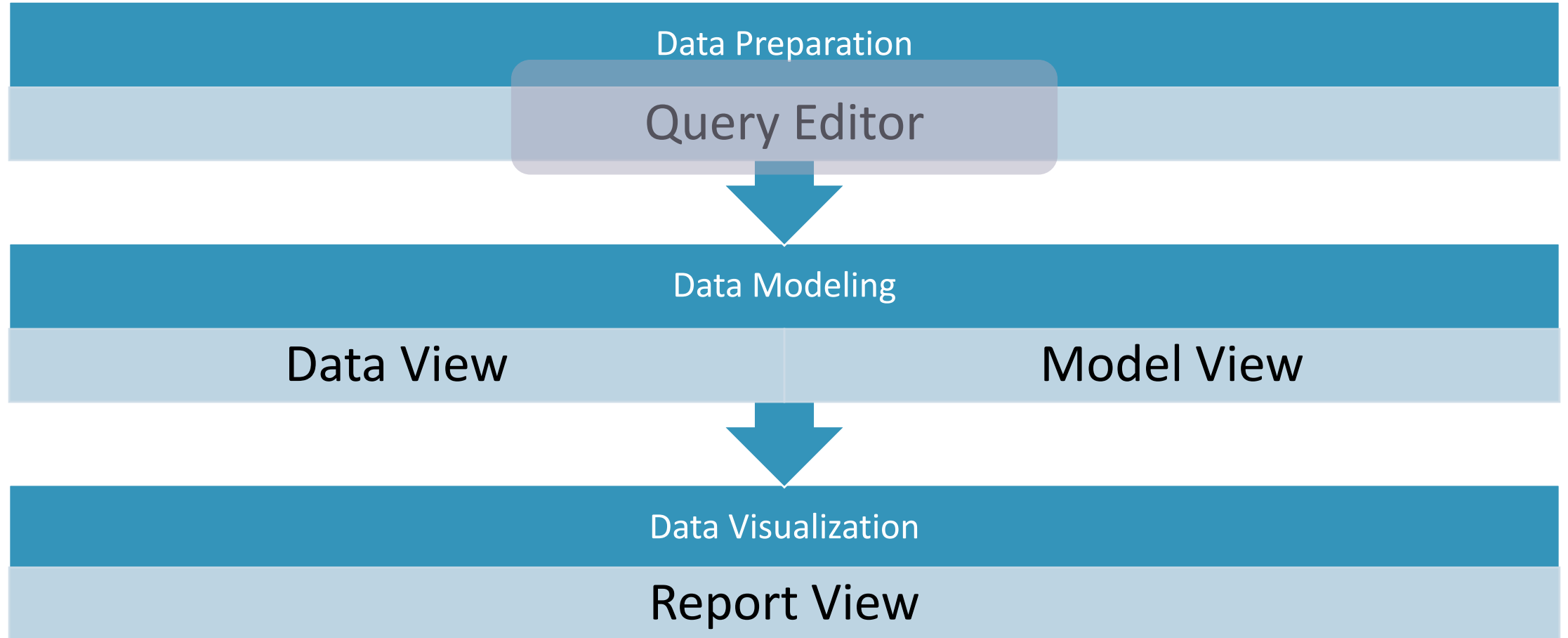


Power BI Mobile

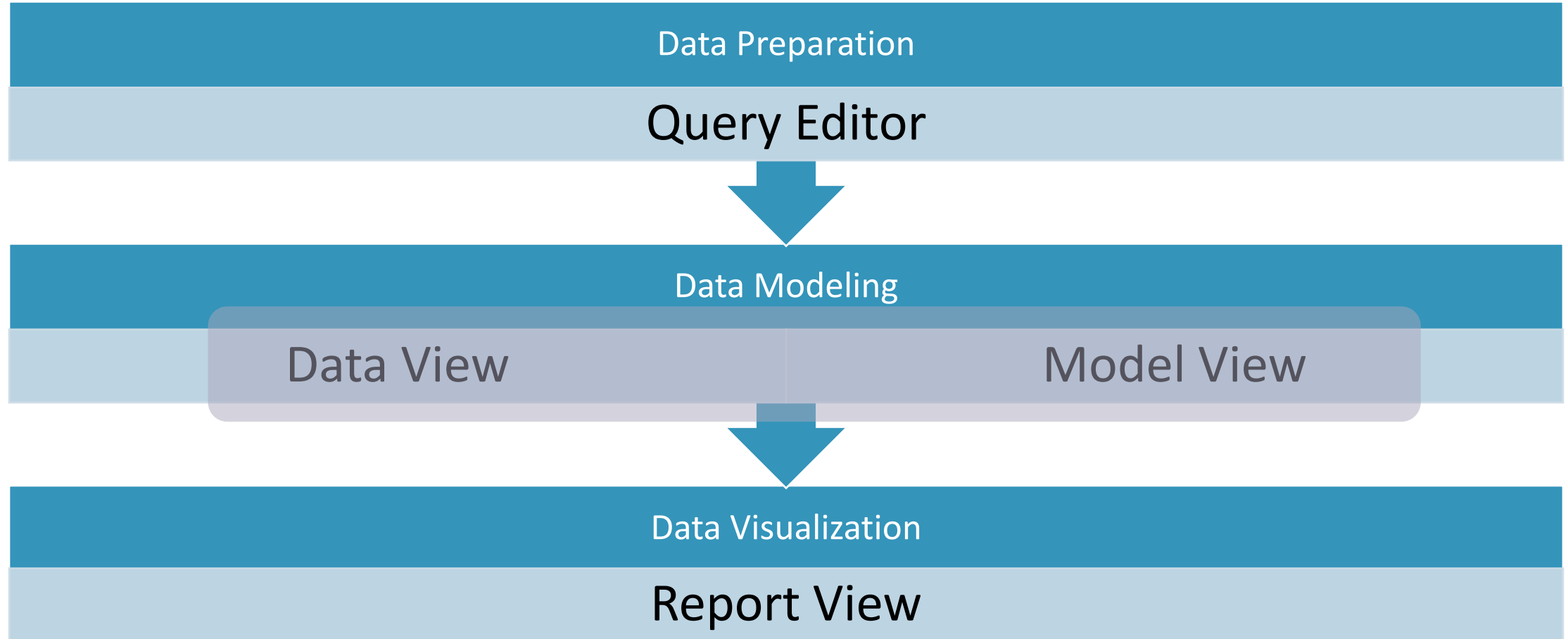
- Mobile App

Access Everywhere

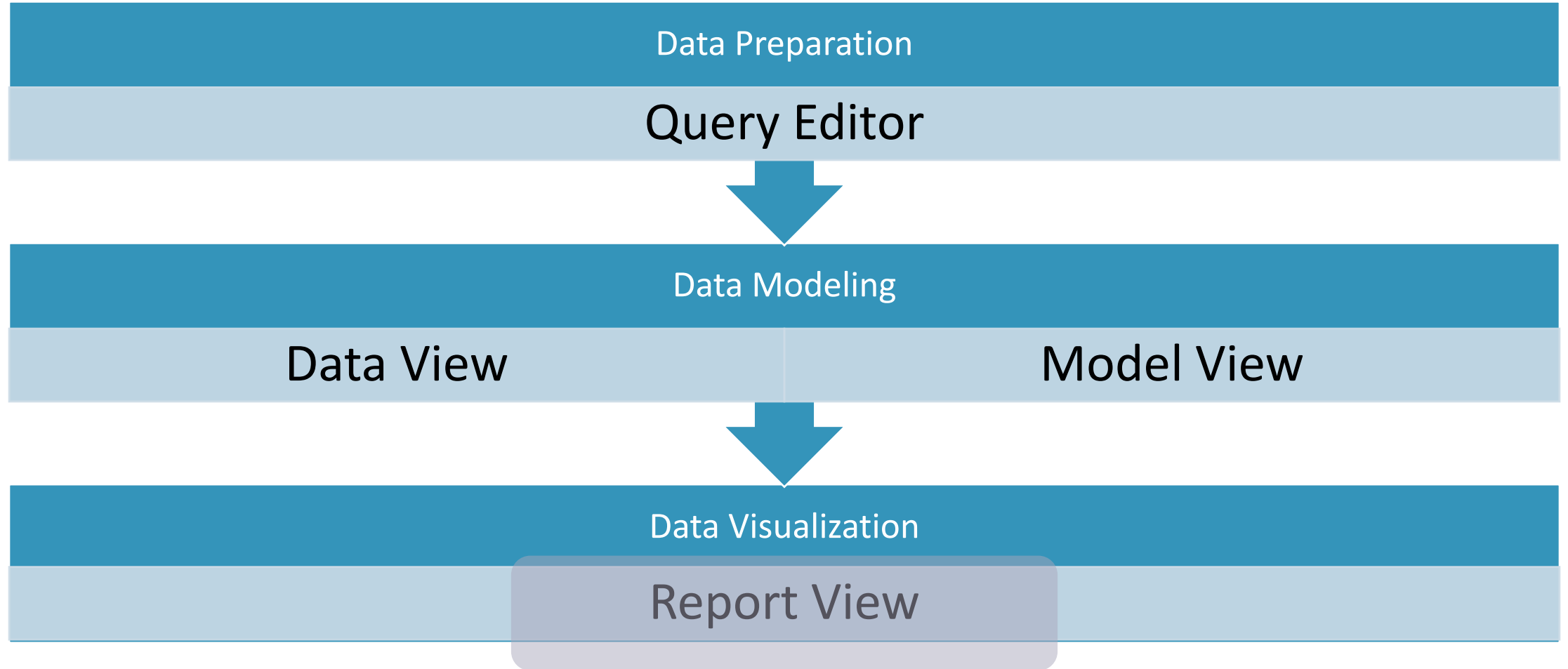
Workflow



Workflow



Workflow



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

Practice

1. Connect files and open Power Query Editor
2. Turn the first row in `indicator_bacteria_tests_datasd_v1` query into the column names
3. 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.