



DSA 8430

Parallel Computing for Data Analytics

Parallel Analytics
AWS Quicksight & SPICE
GCP Data Studio

Module Topics

- Tying distributed storage and parallel computing to analytics interfaces
- AWS Quicksight
 - Powered by SPICE engine
- GCP Data Studio
 - Powered by Big Query

AWS Quicksight

The screenshot displays the AWS Quicksight dashboard. At the top, the 'QuickSight' logo is on the left, and the user 'scottgs' is on the right. Below the header is a navigation bar with a search field 'Find analyses & more', a dropdown menu set to 'Last updated (newest first)', a view toggle (grid icon), and a 'New analysis' button. The left sidebar contains a list of navigation items: 'Favorites', 'Recent', 'Dashboards', 'Analyses' (highlighted), 'Datasets', and 'Topics' (with a 'New' badge). The main content area, titled 'Analyses', shows four analysis cards. Each card features a chart preview, the analysis title, a 'SAMPLE' button, and a star icon for favorites. The cards are: 1. 'Web and Social Media Anal...' with a bar chart. 2. 'Sales Pipeline analysis' with a horizontal bar chart. 3. 'People Overview analysis' with a pie chart. 4. 'Business Review analysis' with a stacked area chart.

QuickSight

scottgs

Find analyses & more

Analyses

Last updated (newest first)

New analysis

★ Favorites

🕒 Recent

📊 Dashboards

📈 Analyses

📁 Datasets

🔍 Topics

New

Analysis

Web and Social Media Anal...

SAMPLE

Analysis

Sales Pipeline analysis

SAMPLE

Analysis

People Overview analysis

SAMPLE

Analysis

Business Review analysis

SAMPLE

AWS Quicksight

- Tutorial 1 (lab) – Creating a dashboard tied to pre-staged public data
- Tutorial 2 (practice) – Pushing data up to AWS and build a dashboard
- Exercise – Pushing data of your choice from Data.gov to create a multi-visual dashboard
- Artifacts
 - URL to dashboards
 - PDF exports of dashboard

GCP Data Studio

Tying Big Query ...

to Visualization

Google Cloud Platform UMC DSA 8430 SP2022

Search Products, resources, docs

FEATURES & INFO SHORTCUT DISABLE EDITOR TABS

Explorer + ADD DATA

Type to search

Viewing pinned projects.

- umc-dsa-8430-sp2022
- scottgs_biengine_tutorial
- 311_service_requests_copy

EDITOR 311_SER...

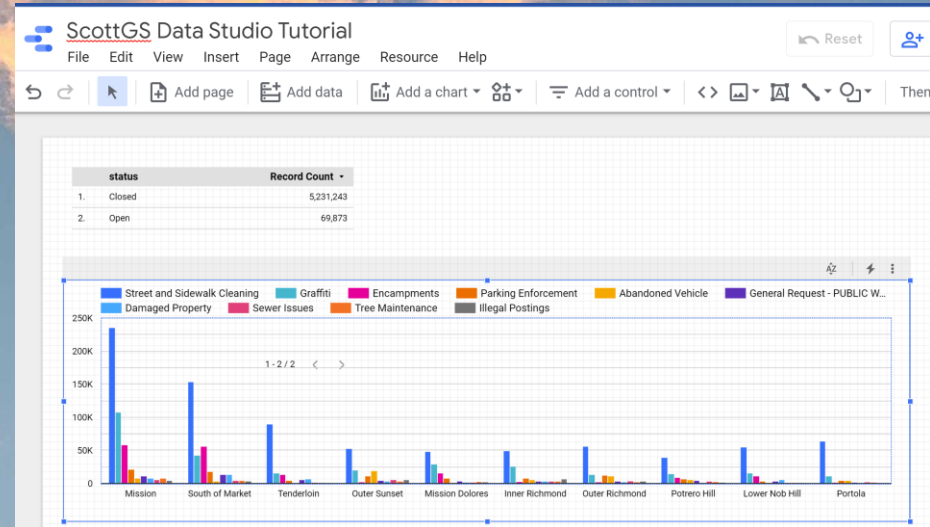
311_service_requests_copy QUERY

SCHEMA DETAILS PREVIEW

Table schema

Filter Enter property name or value

Field name	Type	Mode
unique_key	INTEGER	NULLABLE



Add data to report

BigQuery

By Google

BigQuery is Google's fully managed, petabyte scale, low-cost analytics data warehouse. BigQuery charges for querying/processing of data. Those queries are charged to the credit card of the billing project.

LEARN MORE REPORT AN ISSUE

Project	Dataset	Table
Enter Project Id manually	scottgs_biengine_tutorial	311_service_requests_copy
UMC DSA 8430 SP2022		
My First Project		
My First Project		
MU DSA - Course 8435 Sp20		
MU CGI Research		

Cancel Add

Divide and Conquer

GCP Data Studio

- Tutorial 1 (lab) – Creating a first dashboard tied to Big Query data
- Tutorial 2 (practice) – Computed fields in dashboards
- Exercise – Data blending dashboard
- Artifacts
 - URL to dashboards
 - PDF exports of dashboard

Pay Attention to Detail!

Start early, work methodically!

Take notes as you work through things!