DSA 8430 Parallel Computing for Data Analytics

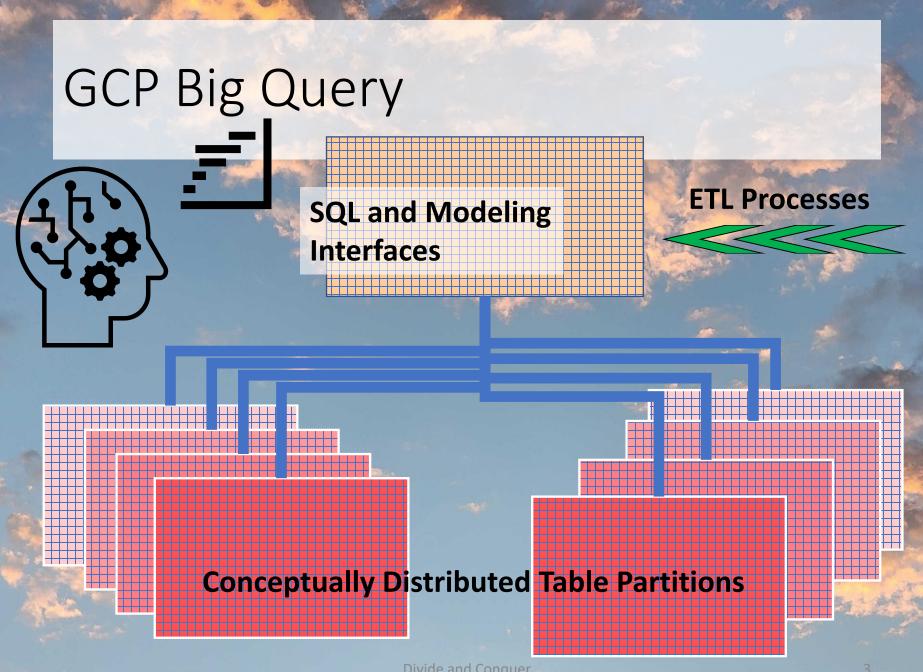
Parallel Search

GCP Big Query

AWS Open Search

Module Topics

- Distributed Data Store Concepts
- GCP Big Query
- AWS Open Search

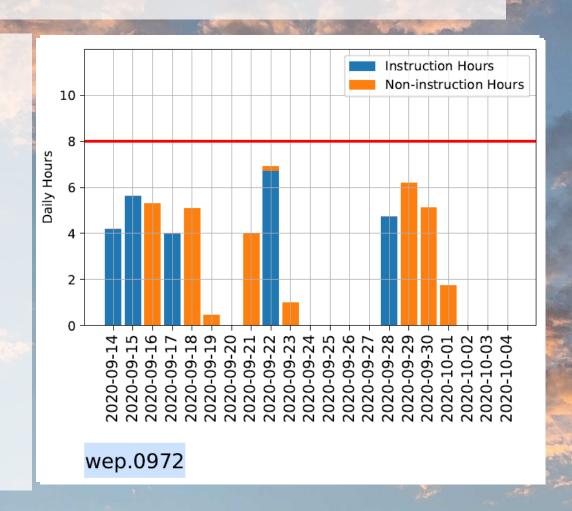


Elastic Search Data Discovery, Mining, SQL **Interfaces Streaming Data Distributed Indexes and Data Sinks**

Elastic Search Use Case

DSA Europa & More

- Streaming Logs into local elastic search
 - Every notebook's save, load, close, and <u>cell</u> <u>execution</u>
- Can run analytics on per student, per notebook
- Course or Course Module Aggregates

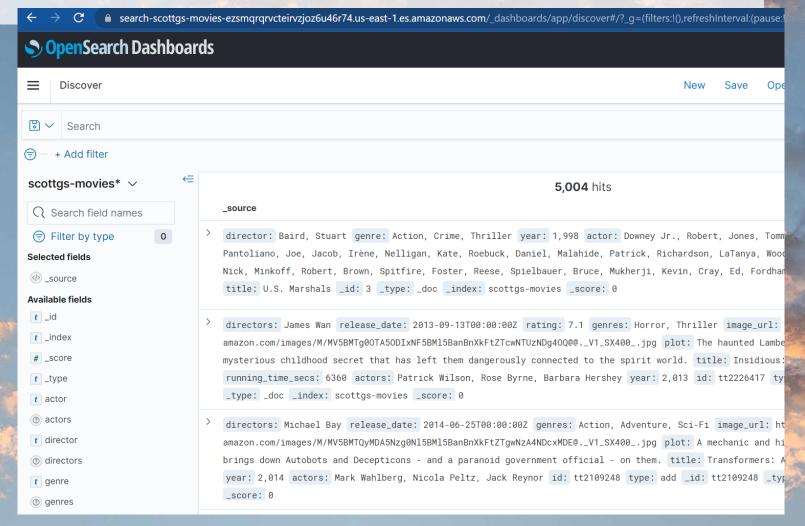


AWS - Open Search (elastic search)

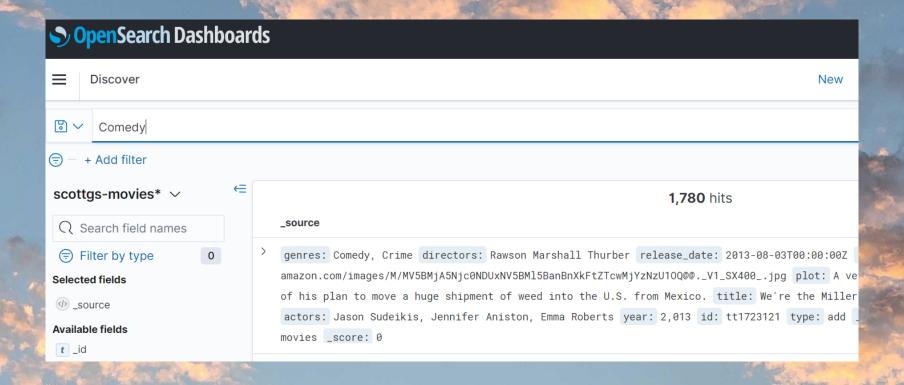
Not a recipe, a guide

- AWS Documentation is somewhat static, but the Console and API is constantly evolving!
- Carefully follow suggested "hints"
- Make sure you track on adaptions to CURL
- See notes on use the stream editor, sed

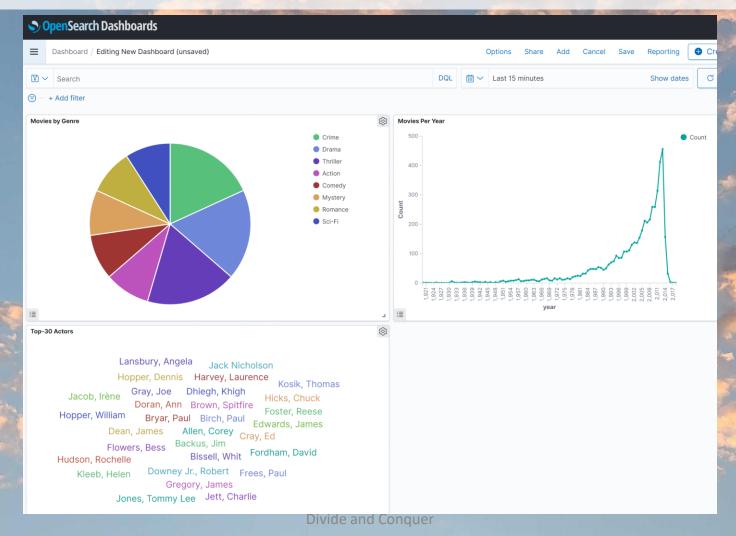
Tutorials Build to Exercises



Tip of the iceberg for Open Search



AWS Exercise You must explore & experiment



Pay Attention to Detail!

Start early, work methodically!

Take notes as you work through things!