# BUILD YOUR OWN CORONAVIRUS REPORT

Jamey Johnston Microsoft Data Platform MVP

@STATCowboy STATCowboy.com www.linkedin.com/in/jameyj/







#### Power BI Desktop

- Windows app to author self-service data driven analytic reports
- Install from Microsoft Store (monthly updates automagically!)

#### Power BI Service

- MS hosted service for publishing Power BI reports and dashboards
- <a href="http://app.powerbi.com">http://app.powerbi.com</a>

#### Power BI Mobile

• App for Windows, iOS (phones and tablets) & Android

#### On-premises Data Gateway

• Bridge to query & load data from on-premises data sources to Power BI Service

#### Power BI Report Server

• On-premises version of the PowerBI.com service (limited features than cloud version)

## POWER BI OVERVIEW



# M

- Used in Power Query for Data Wrangling
- <a href="https://docs.microsoft.com/en-us/powerquery-m/power-query-m-reference">https://docs.microsoft.com/en-us/powerquery-m/power-query-m-reference</a>

# DAX

- Used to create columns, measures, calculations in Power BI (in Excel, too!)
- <a href="https://docs.microsoft.com/en-us/dax/data-analysis-expressions-dax-reference">https://docs.microsoft.com/en-us/dax/data-analysis-expressions-dax-reference</a>

# POWER BI LANGUAGES





Python

Supports Python for data wrangling and visualizations



R

Supports R for data wrangling and visualizations



**Dataflows** 

Integrates Data Lake and ETL technology directly into Power BI

https://STATCowboy.com/power-bi-dataflows-enabling-bi-professionals-and-data-scientists/

## POWER BI FEATURES





### Power BI Desktop

It's Free!



### Power BI Pro

Low price of \$9.99 month!

Publish to Power BI Service



# Power BI Premium

Adds support for dedicated capacity and an enterprise pricing model and new features

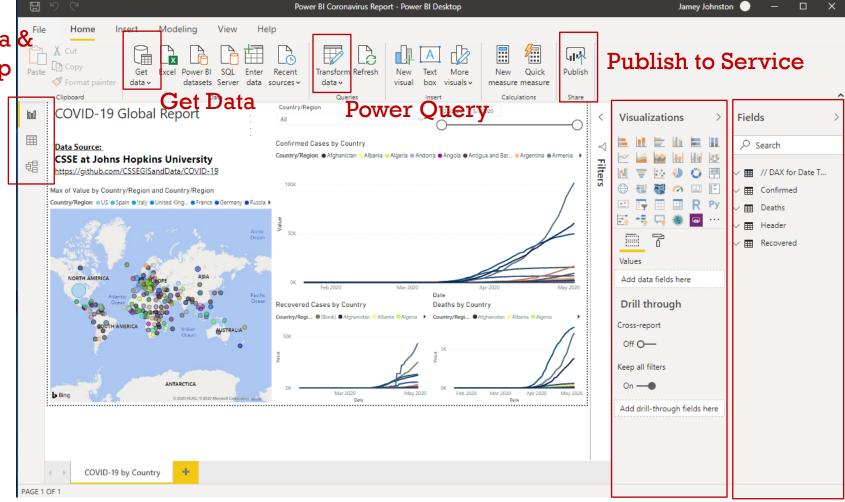
Varies by dedicated capacity needs (i.e. Nodes)

# POWER BI LICENSING



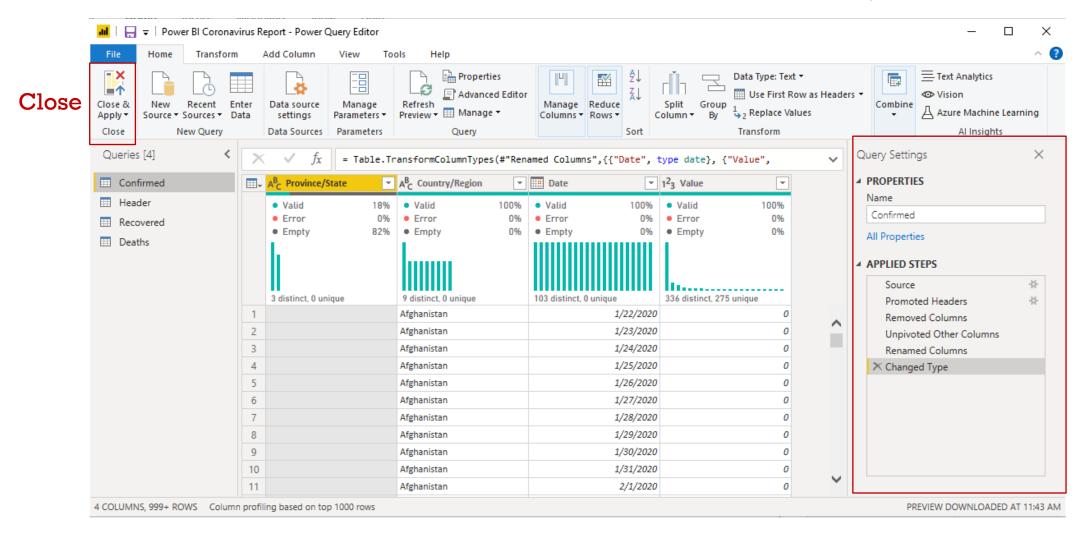
# POWER BI DESKTOP

Report, Data & Relationship View

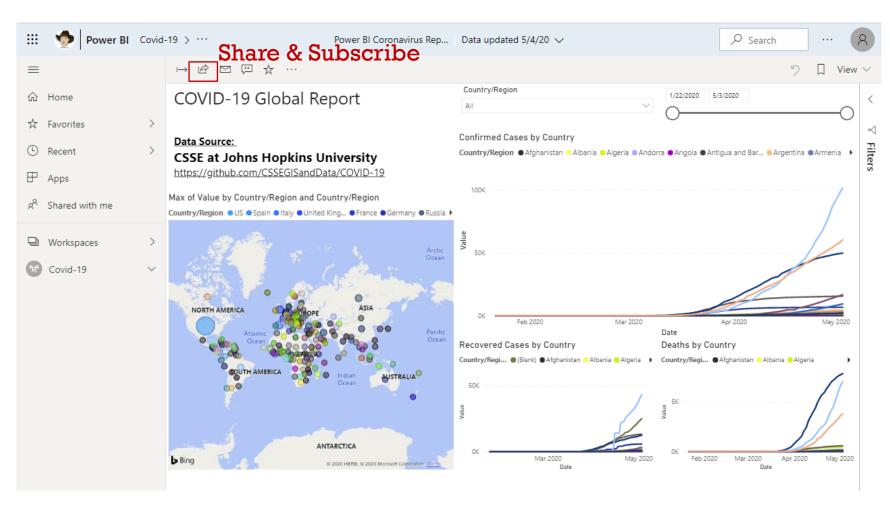




# POWER BI DESKTOP — POWER QUERY

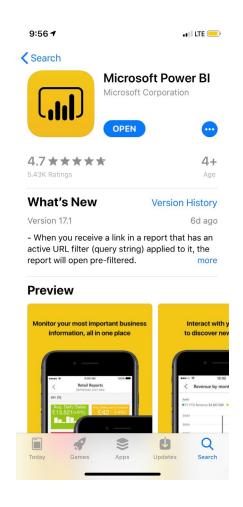


# POWER BI SERVICE





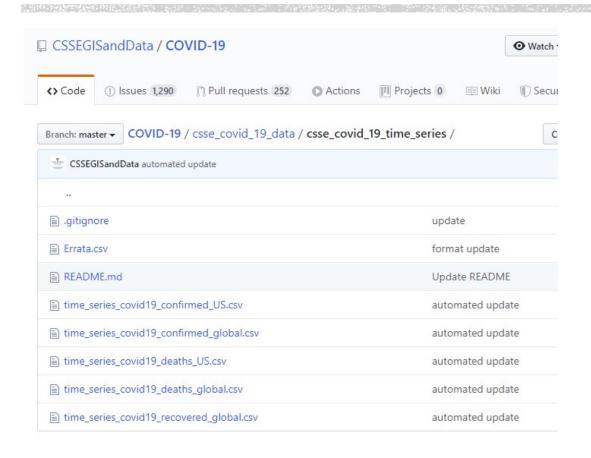




# POWER BI MOBILE

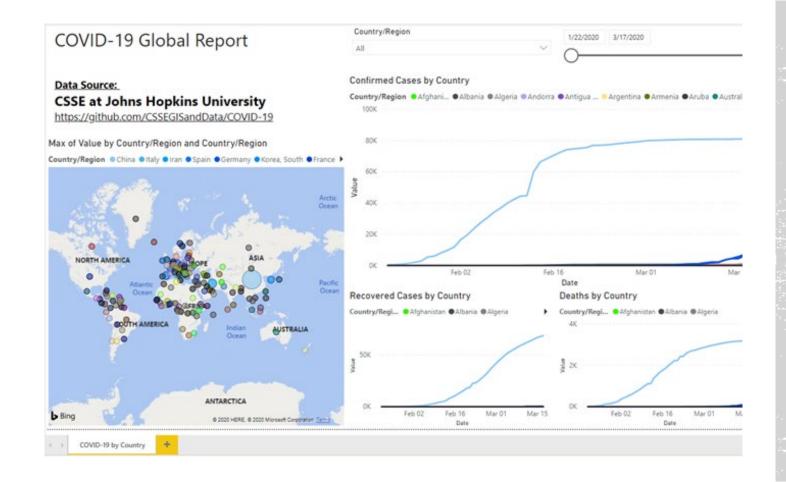


# COVID-19 DATA REPOSITORY



- Center for Systems Science and Engineering (CSSE) @ Johns Hopkins University
- GitHub
- Daily time series summary tables including confirmed, deaths and recovered
- https://github.com/CSSEGISandData/COVID-19





# LEARN POWER BI & BUILD YOUR OWN CORONAVIRUS REPORT



### Power BI Docs & Blog

- <a href="https://powerbi.microsoft.com/en-us/blog/">https://powerbi.microsoft.com/en-us/blog/</a>
- <a href="https://docs.microsoft.com/en-us/power-bi/">https://docs.microsoft.com/en-us/power-bi/</a>

#### Guy in a Cube YouTube Channel

- https://quyinacube.com/
- https://www.youtube.com/channel/UCFplvaKzpfvoGai0vE5VJ0w

#### Power BI YouTube Channel

• <a href="https://www.youtube.com/user/mspowerbi">https://www.youtube.com/user/mspowerbi</a>

#### RADACAD

• <a href="http://radacad.com/">http://radacad.com/</a>

#### SQL BI

- <a href="https://www.sqlbi.com/">https://www.sqlbi.com/</a>
- <a href="https://dax.guide">https://dax.guide</a>

### RESOURCES



# BUILD YOUR OWN CORONAVIRUS REPORT

Jamey Johnston Microsoft Data Platform MVP

@STATCowboy <u>STATCowboy.com</u> <u>www.linkedin.com/in/jameyj/</u>



https://github.com/STATCowboy





Power BI Coronavirus Report Tutorial files for Blog Post





=