⊗ databricksCASE STUDY

(https://databricks.com) FETCHING DATA FROM COVID-19 API

import requests import pandas as pd # Fetching global COVID-19 data url = 'https://disease.sh/v3/covid-19/countries' response = requests.get(url) data = response.json() # Convert data to a Pandas DataFrame covid_df = pd.DataFrame(data) # Convert to Spark DataFrame for visualizations spark_df = spark.createDataFrame(covid_df) #temporary view to perform SQL queries spark_df.createOrReplaceTempView('covid_data') #to create visualizations display(spark_df) #CONCLUSIONS #CHART 1: POPULATION AND CASES PER CONTINENT #It gives a brief overview of the affected out of the total population #CHART 2: CASES AND RECOVERED (PER MILLION) PER CONTINENT #It shows that recovery rate of Europe and North America is lower than others, this is due to lack of hospital beds and more smokers in said count PMC8157209/ (reference article) #CHART 3: CASES, TESTS, POPULATION PER CONTINENT #It shows that Europe and North America did more tests and probably that's why reported higher cases, but Asia and Africa despite having greater p

reported lower cases. this shows lack of testing capacity due to them having more developing countries and lesser facilities. https://www.ncbi.nlm

	1 ² 3 updated	A ^B c country	& countryInfo	123 cases
1	1720033121272	Afghanistan	> {"_id":4,"flag":"https://disease.sh/assets/img/flags/af.png","iso2":"AF","iso3":"AFG","lat":33,"long":65}	234
2	1720033121264	Albania	> {"_id":8,"flag":"https://disease.sh/assets/img/flags/al.png","iso2":"AL","iso3":"ALB","lat":41,"long":20}	334
3	1720033121267	Algeria	> {"_id":12,"flag":"https://disease.sh/assets/img/flags/dz.png","iso2":"DZ","iso3":"DZA","lat":28,"long":3}	272
4	1720033121314	Andorra	> {"_id":20,"flag":"https://disease.sh/assets/img/flags/ad.png","iso2":"AD","iso3":"AND","lat":42.5,"long":1.6}	48
5	1720033121293	Angola	> {"_id":24,"flag":"https://disease.sh/assets/img/flags/ao.png","iso2":"AO","iso3":"AGO","lat":-12.5,"long":18.5}	107
6	1720033121380	Anguilla	> {"_id":660,"flag":"https://disease.sh/assets/img/flags/ai.png";"iso2":"AI","iso3":"AIA","lat":18.25,"long":-63.1667}	3
7	1720033121368	Antigua and Barbuda	> {"_id":28,"flag":"https://disease.sh/assets/img/flags/ag.png","iso2":"AG","iso3":"ATG","lat":17.05,"long":-61.8}	ć
8	1720033121164	Argentina	> {"_id":32,"flag":"https://disease.sh/assets/img/flags/ar.png","iso2":"AR","iso3":"ARG","lat":-34,"long":-64}	10128
9	1720033121256	Armenia	> {"_id":51,"flag":"https://disease.sh/assets/img/flags/am.png","iso2":"AM","iso3":"ARM","lat":40,"long":45}	451
10	1720033121317	Aruba	> {"_id":533,"flag":"https://disease.sh/assets/img/flags/aw.png","iso2":"AW","iso3":"ABW","lat":12.5,"long":-69.9667}	44
11	1720033121161	Australia	> {"_id":36,"flag":"https://disease.sh/assets/img/flags/au.png","iso2":"AU","iso3":"AUS","lat":-27,"long":133}	11853
12	1720033121175	Austria	> {"_id":40,"flag":"https://disease.sh/assets/img/flags/at.png","iso2":"AT","iso3":"AUT","lat":47.3333,"long":13.3333}	608
13	1720033121239	Azerbaijan	> {"_id":31,"flag":"https://disease.sh/assets/img/flags/az.png","iso2":"AZ","iso3":"AZE","lat":40.5,"long":47.5}	835
14	1720033121323	Bahamas	> {"_id":44,"flag":"https://disease.sh/assets/img/flags/bs.png","iso2":"BS","iso3":"BHS","lat":24.25,"long":-76}	38

RETRIEVING TOP 10 COUNTIRES WITH HIGHEST COVID CASES



ADDING DROPDWON WIDGET FOR SELECTING COUNTIRES AND CREATING DATETIME DATA

