

**Integration** Projects ▾ Branches ▾ Notebook Dataset ▾ Caveats ▾ Settings ▾

🕒 On branch **default**

[1] Console ▾ Timing Datasets ▾ Charts ▾

## Data Integration starts from here!

[2] LOAD DATASET `vacc` AS csv FROM `CovidVaccinations.csv` @ artifact file 239

Console ▾ Timing Datasets ▾ Charts ▾

`vacc` (232799 rows)

|    | <code>iso_code</code> (string) | <code>continent</code> (string) | <code>location</code> (string) | <code>date</code> (string) | <code>total_tests</code> (long) | <code>new_tests</code> (int) | <code>total_tests_per_thousand</code> (float) | <code>new_tests_per_thousand</code> (float) |
|----|--------------------------------|---------------------------------|--------------------------------|----------------------------|---------------------------------|------------------------------|---|---|
| 0  | AFG                            | Asia                            | Afghanistan                    | 2/24/2020                  |                                 |                              |   |   |
| 1  | AFG                            | Asia                            | Afghanistan                    | 2/25/2020                  |                                 |                              |   |   |
| 2  | AFG                            | Asia                            | Afghanistan                    | 2/26/2020                  |                                 |                              |   |   |
| 3  | AFG                            | Asia                            | Afghanistan                    | 2/27/2020                  |                                 |                              |   |   |
| 4  | AFG                            | Asia                            | Afghanistan                    | 2/28/2020                  |                                 |                              |   |   |
| 5  | AFG                            | Asia                            | Afghanistan                    | 2/29/2020                  |                                 |                              |   |   |
| 6  | AFG                            | Asia                            | Afghanistan                    | 3/1/2020                   |                                 |                              |   |   |
| 7  | AFG                            | Asia                            | Afghanistan                    | 3/2/2020                   |                                 |                              |   |   |
| 8  | AFG                            | Asia                            | Afghanistan                    | 3/3/2020                   |                                 |                              |   |   |
| 9  | AFG                            | Asia                            | Afghanistan                    | 3/4/2020                   |                                 |                              |   |   |
| 10 | AFG                            | Asia                            | Afghanistan                    | 3/5/2020                   |                                 |                              |   |   |
| 11 | AFG                            | Asia                            | Afghanistan                    | 3/6/2020                   |                                 |                              |   |   |
| 12 | AFG                            | Asia                            | Afghanistan                    | 3/7/2020                   |                                 |                              |   |   |
| 13 | AFG                            | Asia                            | Afghanistan                    | 3/8/2020                   |                                 |                              |   |   |
| 14 | AFG                            | Asia                            | Afghanistan                    | 3/9/2020                   |                                 |                              |   |   |
| 15 | AFG                            | Asia                            | Afghanistan                    | 3/10/2020                  |                                 |                              |   |   |
| 16 | AFG                            | Asia                            | Afghanistan                    | 3/11/2020                  |                                 |                              |   |   |
| 17 | AFG                            | Asia                            | Afghanistan                    | 3/12/2020                  |                                 |                              |   |   |
| 18 | AFG                            | Asia                            | Afghanistan                    | 3/13/2020                  |                                 |                              |   |   |
| 19 | AFG                            | Asia                            | Afghanistan                    | 3/14/2020                  |                                 |                              |   |   |

[3] LOAD DATASET `CovidDeaths` AS csv FROM `CovidDeaths.csv` @ artifact file 241

Console ▾ Timing Datasets ▾ Charts ▾

`coviddeaths` (232799 rows)

|    | <code>iso_code</code> (string) | <code>continent</code> (string) | <code>location</code> (string) | <code>date</code> (string) | <code>population</code> (long) | <code>total_cases</code> (int) | <code>new_cases</code> (int) | <code>new_cases_smoothed</code> (float) | <code>total_deaths</code> |
|----|--------------------------------|---------------------------------|--------------------------------|----------------------------|--------------------------------|--------------------------------|------------------------------|---|---------------------------|
| 0  | AFG                            | Asia                            | Afghanistan                    | 2/24/2020                  | 41128772                       | 5                              | 5                            |   |                           |
| 1  | AFG                            | Asia                            | Afghanistan                    | 2/25/2020                  | 41128772                       | 5                              | 0                            |   |                           |
| 2  | AFG                            | Asia                            | Afghanistan                    | 2/26/2020                  | 41128772                       | 5                              | 0                            |   |                           |
| 3  | AFG                            | Asia                            | Afghanistan                    | 2/27/2020                  | 41128772                       | 5                              | 0                            |   |                           |
| 4  | AFG                            | Asia                            | Afghanistan                    | 2/28/2020                  | 41128772                       | 5                              | 0                            |   |                           |
| 5  | AFG                            | Asia                            | Afghanistan                    | 2/29/2020                  | 41128772                       | 5                              | 0                            | 0.7139999866485596                      |                           |
| 6  | AFG                            | Asia                            | Afghanistan                    | 3/1/2020                   | 41128772                       | 5                              | 0                            | 0.7139999866485596                      |                           |
| 7  | AFG                            | Asia                            | Afghanistan                    | 3/2/2020                   | 41128772                       | 5                              | 0                            | 0                                       |                           |
| 8  | AFG                            | Asia                            | Afghanistan                    | 3/3/2020                   | 41128772                       | 5                              | 0                            | 0                                       |                           |
| 9  | AFG                            | Asia                            | Afghanistan                    | 3/4/2020                   | 41128772                       | 5                              | 0                            | 0                                       |                           |
| 10 | AFG                            | Asia                            | Afghanistan                    | 3/5/2020                   | 41128772                       | 5                              | 0                            | 0                                       |                           |
| 11 | AFG                            | Asia                            | Afghanistan                    | 3/6/2020                   | 41128772                       | 5                              | 0                            | 0                                       |                           |
| 12 | AFG                            | Asia                            | Afghanistan                    | 3/7/2020                   | 41128772                       | 8                              | 3                            | 0.4289999022483826                      |                           |

|    | Integration | Projects | Branches    | Notebook  | Dataset  | Caveats | Settings |
|----|-------------|----------|-------------|-----------|----------|---------|----------|
| 14 | AFG         | Asia     | Afghanistan | 3/9/2020  | 41128772 | 8       | 0        |
| 15 | AFG         | Asia     | Afghanistan | 3/10/2020 | 41128772 | 8       | 0        |
| 16 | AFG         | Asia     | Afghanistan | 3/11/2020 | 41128772 | 11      | 3        |
| 17 | AFG         | Asia     | Afghanistan | 3/12/2020 | 41128772 | 11      | 0        |
| 18 | AFG         | Asia     | Afghanistan | 3/13/2020 | 41128772 | 11      | 0        |
| 19 | AFG         | Asia     | Afghanistan | 3/14/2020 | 41128772 | 14      | 3        |

[4]

```
-- JOINING THE TWO TABLES TOGETHER FOR VIEWING
```

```
SELECT *
FROM CovidDeaths death
JOIN vacc vac
    ON death.location = vac.location
    AND death.date = vac.date;
```

Console ▾ Timing Datasets ▾ Charts ▾

Views ↗ 🔍 ⌂

temporary\_dataset (232799 rows)

|    | iso_code | continent | location    | date       | population | (long)   | total_cases | (int) | new_cases | (int) | new_cases_smoothed | (float) | total_deaths |
|----|----------|-----------|-------------|------------|------------|----------|-------------|-------|-----------|-------|--------------------|---------|--------------|
| 0  | AFG      | Asia      | Afghanistan | 10/3/2020  | 41128772   | 39383    | 7           | 15    |           |       |                    | 1466    |              |
| 1  | AFG      | Asia      | Afghanistan | 11/21/2020 | 41128772   | 44443    | 215         |       |           |       | 210.5709991455078  | 1661    |              |
| 2  | AFG      | Asia      | Afghanistan | 11/22/2021 | 41128772   | 156911   | 15          |       |           |       | 43                 | 7303    |              |
| 3  | AFG      | Asia      | Afghanistan | 11/27/2021 | 41128772   | 157190   | 19          |       |           |       | 46.57099914550781  | 7308    |              |
| 4  | AFG      | Asia      | Afghanistan | 3/28/2020  | 41128772   | 106      | 15          |       |           |       | 11.71399974822998  | 2       |              |
| 5  | AFG      | Asia      | Afghanistan | 3/8/2020   | 41128772   | 8        | 0           |       |           |       | 0.4289999022483826 |         |              |
| 6  | AFG      | Asia      | Afghanistan | 7/17/2022  | 41128772   | 183572   | 127         |       |           |       | 43.856998443603516 | 7731    |              |
| 7  | AFG      | Asia      | Afghanistan | 8/10/2022  | 41128772   | 188202   | 236         |       |           |       | 258.4289855957031  | 7753    |              |
| 8  | AFG      | Asia      | Afghanistan | 8/11/2021  | 41128772   | 151291   | 278         |       |           |       | 336.85699462890625 | 6978    |              |
| 9  | AFG      | Asia      | Afghanistan | 9/10/2022  | 41128772   | 195631   | 160         |       |           |       | 245.5709991455078  | 7787    |              |
| 10 | OWID_AFR |           | Africa      | 10/1/2022  | 1426736614 | 12357818 | 588         |       |           |       | 1119.2860107421875 | 256764  |              |
| 11 | OWID_AFR |           | Africa      | 10/10/2021 | 1426736614 | 8389905  | 4702        |       |           |       | 7139.85693359375   | 213936  |              |
| 12 | OWID_AFR |           | Africa      | 12/13/2021 | 1426736614 | 8999010  | 17081       |       |           |       | 29840              | 224964  |              |
| 13 | OWID_AFR |           | Africa      | 2/11/2022  | 1426736614 | 11115635 | 18311       |       |           |       | 18924.4296875      | 243533  |              |
| 14 | OWID_AFR |           | Africa      | 3/17/2021  | 1426736614 | 4064067  | 10987       |       |           |       | 10360.857421875    | 108671  |              |
| 15 | OWID_AFR |           | Africa      | 4/24/2021  | 1426736614 | 4497010  | 10152       |       |           |       | 10682.2861328125   | 119840  |              |
| 16 | ALB      | Europe    | Albania     | 10/27/2020 | 2842318    | 19729    | 284         |       |           |       | 296.85699462890625 | 487     |              |
| 17 | ALB      | Europe    | Albania     | 11/13/2020 | 2842318    | 26701    | 490         |       |           |       | 498.7139892578125  | 605     |              |
| 18 | ALB      | Europe    | Albania     | 4/10/2021  | 2842318    | 128155   | 360         |       |           |       | 281.7139892578125  | 2310    |              |
| 19 | ALB      | Europe    | Albania     | 4/16/2022  | 2842318    | 274462   | 33          |       |           |       | 38.7140007019043   | 3496    |              |

[5]

```
SELECT *
FROM coviddeaths AS cd
JOIN vacc AS vd ON cd.location = vd.location AND cd.date = vd.date;
```

Console ▾ Timing Datasets ▾ Charts ▾

Views ↗ 🔍 ⌂

temporary\_dataset (232799 rows)

|   | iso_code | continent | location    | date       | population | (long) | total_cases | (int) | new_cases | (int) | new_cases_smoothed | (float) | total_deaths |
|---|----------|-----------|-------------|------------|------------|--------|-------------|-------|-----------|-------|--------------------|---------|--------------|
| 0 | AFG      | Asia      | Afghanistan | 10/3/2020  | 41128772   | 39383  | 7           | 15    |           |       |                    | 1466    |              |
| 1 | AFG      | Asia      | Afghanistan | 11/21/2020 | 41128772   | 44443  | 215         |       |           |       | 210.5709991455078  | 1661    |              |
| 2 | AFG      | Asia      | Afghanistan | 11/22/2021 | 41128772   | 156911 | 15          |       |           |       | 43                 | 7303    |              |
| 3 | AFG      | Asia      | Afghanistan | 11/27/2021 | 41128772   | 157190 | 19          |       |           |       | 46.57099914550781  | 7308    |              |

|    | Integration | Projects | Branches    | Notebook   | Dataset    | Caveats  | Settings |                    |
|----|-------------|----------|-------------|------------|------------|----------|----------|--------------------|
| 5  | AFG         | Asia     | Afghanistan | 3/8/2020   | 41128772   | 8        | 0        | 0.4289999022483826 |
| 6  | AFG         | Asia     | Afghanistan | 7/17/2022  | 41128772   | 183572   | 127      | 43.856998443603516 |
| 7  | AFG         | Asia     | Afghanistan | 8/10/2022  | 41128772   | 188202   | 236      | 258.4289855957031  |
| 8  | AFG         | Asia     | Afghanistan | 8/11/2021  | 41128772   | 151291   | 278      | 336.85699462890625 |
| 9  | AFG         | Asia     | Afghanistan | 9/10/2022  | 41128772   | 195631   | 160      | 245.5709991455078  |
| 10 | OWID_AFR    |          | Africa      | 10/1/2022  | 1426736614 | 12357818 | 588      | 1119.2860107421875 |
| 11 | OWID_AFR    |          | Africa      | 10/10/2021 | 1426736614 | 8389905  | 4702     | 7139.85693359375   |
| 12 | OWID_AFR    |          | Africa      | 12/13/2021 | 1426736614 | 8999010  | 17081    | 29840              |
| 13 | OWID_AFR    |          | Africa      | 2/11/2022  | 1426736614 | 11115635 | 18311    | 18924.4296875      |
| 14 | OWID_AFR    |          | Africa      | 3/17/2021  | 1426736614 | 4064067  | 10987    | 10360.857421875    |
| 15 | OWID_AFR    |          | Africa      | 4/24/2021  | 1426736614 | 4497010  | 10152    | 10682.2861328125   |
| 16 | ALB         | Europe   | Albania     | 10/27/2020 | 2842318    | 19729    | 284      | 296.85699462890625 |
| 17 | ALB         | Europe   | Albania     | 11/13/2020 | 2842318    | 26701    | 490      | 498.7139892578125  |
| 18 | ALB         | Europe   | Albania     | 4/10/2021  | 2842318    | 128155   | 360      | 281.7139892578125  |
| 19 | ALB         | Europe   | Albania     | 4/16/2022  | 2842318    | 274462   | 33       | 38.714007019043    |

[6]

```
SELECT cd.location, cd.date, cd.total_cases, cd.total_deaths, v.total_tests, v.total_vaccinations
FROM coviddeaths cd
INNER JOIN vacc v ON cd.iso_code = v.iso_code AND cd.location = v.location AND cd.date = v.date
WHERE cd.total_cases IS NOT NULL
      AND cd.total_deaths IS NOT NULL
      AND v.total_tests IS NOT NULL
      AND v.total_vaccinations IS NOT NULL
```

Console ▾ Timing Datasets ▾ Charts ▾

|    | location (string)    | date (string) | total_cases (int) | total_deaths (int) | total_tests (long) | total_vaccinations (long) |
|----|----------------------|---------------|-------------------|--------------------|--------------------|---------------------------|
| 0  | Albania              | 11/11/2021    | 191440            | 2978               | 1298369            | 1980231                   |
| 1  | Albania              | 4/13/2021     | 128752            | 2326               | 572237             | 281216                    |
| 2  | United Arab Emirates | 1/27/2021     | 289086            | 811                | 25046797           | 2764445                   |
| 3  | United Arab Emirates | 3/15/2021     | 428295            | 1402               | 34030998           | 6578881                   |
| 4  | United Arab Emirates | 4/16/2021     | 493266            | 1547               | 41403068           | 9489684                   |
| 5  | Argentina            | 3/16/2021     | 2210121           | 54036              | 8517680            | 2844719                   |
| 6  | Australia            | 2/13/2022     | 2914583           | 4604               | 62322827           | 52308370                  |
| 7  | Australia            | 7/18/2021     | 32016             | 914                | 22833930           | 10103159                  |
| 8  | Australia            | 8/11/2021     | 37749             | 947                | 27118125           | 14507481                  |
| 9  | Austria              | 4/15/2021     | 578529            | 11958              | 28012081           | 2443331                   |
| 10 | Austria              | 4/17/2022     | 4084222           | 19501              | 180578162          | 18337958                  |
| 11 | Austria              | 6/11/2021     | 643426            | 12995              | 47268180           | 6347050                   |
| 12 | Azerbaijan           | 7/2/2021      | 336223            | 4977               | 3767982            | 3670729                   |
| 13 | Azerbaijan           | 9/20/2021     | 473459            | 6327               | 4751264            | 7977574                   |
| 14 | Belgium              | 1/1/2021      | 648289            | 19581              | 6978829            | 979                       |
| 15 | Belgium              | 12/5/2021     | 1827467           | 27167              | 25380907           | 19383115                  |
| 16 | Bangladesh           | 6/14/2021     | 829972            | 13172              | 6197049            | 10071313                  |
| 17 | Bangladesh           | 8/3/2021      | 1296093           | 21397              | 7900504            | 14103674                  |
| 18 | Bulgaria             | 1/20/2022     | 860877            | 32518              | 8110530            | 4078145                   |
| 19 | Bulgaria             | 11/23/2021    | 679983            | 27658              | 6373056            | 3221605                   |

[7]

```
SELECT *
FROM coviddeaths cd
INNER JOIN vacc v
    ON cd.iso_code = v.iso_code
    AND cd.location = v.location
    AND cd.date = v.date
```

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```

cd.population IS NOT NULL
AND cd.total_cases IS NOT NULL
AND cd.new_cases IS NOT NULL
AND cd.new_cases_smoothed IS NOT NULL
AND cd.total_deaths IS NOT NULL
AND cd.new_deaths IS NOT NULL
AND cd.new_deaths_smoothed IS NOT NULL
AND cd.total_cases_per_million IS NOT NULL
AND cd.new_cases_per_million IS NOT NULL
AND cd.new_cases_smoothed_per_million IS NOT NULL
AND cd.total_deaths_per_million IS NOT NULL
AND cd.new_deaths_per_million IS NOT NULL
AND cd.new_deaths_smoothed_per_million IS NOT NULL
AND cd.reproduction_rate IS NOT NULL
AND cd.icu_patients IS NOT NULL
AND cd.icu_patients_per_million IS NOT NULL
AND cd.hosp_patients IS NOT NULL
AND cd.hosp_patients_per_million IS NOT NULL
AND cd.weekly_icu_admissions IS NOT NULL
AND cd.weekly_icu_admissions_per_million IS NOT NULL
AND cd.weekly_hosp_admissions IS NOT NULL
AND cd.weekly_hosp_admissions_per_million IS NOT NULL

-- Checking for the null values in columns from the covid_vaccination dataset
AND v.total_tests IS NOT NULL
AND v.new_tests IS NOT NULL
AND v.total_tests_per_thousand IS NOT NULL
AND v.new_tests_per_thousand IS NOT NULL
AND v.new_tests_smoothed IS NOT NULL
AND v.new_tests_smoothed_per_thousand IS NOT NULL
AND v.positive_rate IS NOT NULL
AND v.tests_per_case IS NOT NULL
AND v.tests_units IS NOT NULL
AND v.total_vaccinations IS NOT NULL
AND v.people_vaccinated IS NOT NULL
AND v.people_fully_vaccinated IS NOT NULL
AND v.total_boosters IS NOT NULL
AND v.new_vaccinations IS NOT NULL
AND v.new_vaccinations_smoothed IS NOT NULL
AND v.total_vaccinations_per_hundred IS NOT NULL
AND v.people_vaccinated_per_hundred IS NOT NULL
AND v.people_fully_vaccinated_per_hundred IS NOT NULL
AND v.total_boosters_per_hundred IS NOT NULL
AND v.new_vaccinations_smoothed_per_million IS NOT NULL
AND v.new_people_vaccinated_smoothed IS NOT NULL
AND v.new_people_vaccinated_smoothed_per_hundred IS NOT NULL
AND v.stringency_index IS NOT NULL

```

Console ▾ Timing Datasets ▾ Charts ▾

temporary\_dataset (1807 rows)

|    | iso_code | continent | location | date      | population | total_cases | new_cases | new_cases_smoothed | total_deaths |
|----|----------|-----------|----------|-----------|------------|-------------|-----------|--------------------|--------------|
| 0  | ESP      | Europe    | Spain    | 12/9/2021 | 47558632   | 5273178     | 26412     | 11994              | 88321        |
| 1  | EST      | Europe    | Estonia  | 9/12/2021 | 1326064    | 146707      | 329       | 417                | 1312         |
| 2  | FRA      | Europe    | France   | 3/15/2021 | 67813000   | 4119519     | 6444      | 24065.142578125    | 90775        |
| 3  | FRA      | Europe    | France   | 7/19/2021 | 67813000   | 5914537     | 4151      | 8291.142578125     | 111523       |
| 4  | FRA      | Europe    | France   | 9/15/2021 | 67813000   | 6965808     | 383       | 8832.2861328125    | 115876       |
| 5  | IRL      | Europe    | Ireland  | 1/23/2022 | 5023108    | 1145968     | 4731      | 6068.42919921875   | 6087         |
| 6  | IRL      | Europe    | Ireland  | 12/5/2021 | 5023108    | 594250      | 5156      | 4885.14306640625   | 5707         |
| 7  | ISR      | Asia      | Israel   | 9/12/2021 | 9449000    | 1172253     | 6571      | 7808.14306640625   | 7383         |
| 8  | ITA      | Europe    | Italy    | 3/2/2022  | 59037472   | 12867918    | 37946     | 37737.14453125     | 155214       |
| 9  | ITA      | Europe    | Italy    | 3/5/2022  | 59037472   | 12990223    | 41364     | 36791.85546875     | 155782       |
| 10 | CZE      | Europe    | Czechia  | 2/10/2022 | 10493990   | 3340318     | 29166     | 28058              | 37660        |
| 11 | CZE      | Europe    | Czechia  | 4/24/2022 | 10493990   | 3896144     | 600       | 1964.1429443359375 | 40083        |
| 12 | CZE      | Europe    | Czechia  | 5/2/2022  | 10493990   | 3907793     | 1695      | 1341               | 40175        |
| 13 | CZE      | Europe    | Czechia  | 6/3/2022  | 10493990   | 3921015     | 289       | 202.14300537109375 | 40290        |
| 14 | CZE      | Europe    | Czechia  | 8/2/2021  | 10493990   | 1673769     | 75        | 174.5709991455078  | 30374        |

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|--|-------------|------------|------------|-----------|-----------|-----------|------------|-------------------|
|  | 16 FRA      | Europe     | France     | 2/2/2022  | 67813000  | 19924939  | 315363     | 306126            |
|  | 17 ISR      | Asia       | Israel     | 2/2/2022  | 9449000   | 3037135   | 70691      | 62526.5703125     |
|  | 18 ITA      | Europe     | Italy      | 5/26/2022 | 59037472  | 17333299  | 20867      | 22157.142578125   |
|  | 19 CZE      | Europe     | Czechia    | 4/15/2022 | 10493990  | 3880556   | 4562       | 2927.428955078125 |



Connected to vizier @ <http://localhost:5001/vizier-db/api/v1/>