

Database Concepts

Assignment 4: Database Design Project

PART A

locations.csv

Data Dimensions: 223 x 6 (Not including header row)

| Variable | Description | Data Type | Example |
|-----------------------|--|-------------------|---|
| location | Country Name | Character | Malawi |
| iso_code | Country code in ISO 3166-1 alpha-3 format | Character | MWI |
| vaccines | COVID-19 vaccines administered in country, concatenated with “, “ separators | Character | Johnson&Johnson, Oxford/AstraZeneca |
| last_observation_date | Most recent date of vaccine administration information, presented in dd/mm/yyyy format | Date (dd/mm/yyyy) | 24/09/2023 |
| source_name | Source of vaccine administration information | Character | World Health Organisation |
| source_website | URL for vaccine administration information | Character | https://data.who.int/dashboards/covid19/ |

us_state_vaccinations.csv

Data Dimensions: 54628 x 15 (Not including header row)

| Variable | Description | Data Type | Example |
|-------------------------------------|---|-------------------|------------|
| date | Date of record in dd/mm/yyyy format | Date (dd/mm/yyyy) | 1/07/2021 |
| location | Name of US state or federal department | Character | California |
| total_vaccinations | Total amount of COVID-19 vaccines administered | Integer | 42771685 |
| total_distributed | Total amount of COVID-19 vaccines shipped | Integer | 49191095 |
| people_vaccinated | Amount of people that received at least one COVID-19 vaccine | Integer | 24304553 |
| people_fully_vaccinated_per_hundred | Average amount of people who received all prescribed COVID-19 doses per 100-person sample | Real | 49.98 |
| total_vaccinations_per_hundred | Average amount of COVID-19 vaccines administered per 100-person sample | Real | 108.25 |
| people_fully_vaccinated | Total amount of people who received all prescribed COVID-19 doses | Integer | 19746626 |
| people_vaccinated_per_hundred | Average amount of people that received at least one COVID-19 vaccine per 100-person sample | Real | 61.51 |
| distributed_per_hundred | Average amount of COVID-19 vaccines shipped per 100-person sample | Real | 124.5 |
| daily_vaccinations_raw | Daily amount of new COVID-19 vaccinations administered (not recommended for analysis) | Integer | 127601 |
| daily_vaccinations | Daily amount of COVID-19 vaccinations administered (smoothed over 7 days) | Integer | 133114 |
| daily_vaccinations_per_million | Daily amount of COVID-19 vaccinations administered (smoothed over 7 days) per 1,000,000-person sample | Integer | 3369 |
| share_doses_used | Proportion of shipped COVID-19 vaccines that were administered | Real | 0.87 |

| | | | |
|----------------|---|---------|------|
| total_boosters | Total amount of COVID-19 booster shots administered | Integer | NULL |
|----------------|---|---------|------|

vaccinations-by-age-group.csv

Data Dimensions: 73291 x 6 (Not including header row)

| Variable | Description | Data Type | Example |
|-------------------------------------|--|-------------------|------------|
| location | Country Name | Character | Belgium |
| date | Date of record in dd/mm/yyyy format | Date (dd/mm/yyyy) | 26/08/2021 |
| age_group | Age range covered by record, also contains date entries for unknown reason | Character | 50-59 |
| people_vaccinated_per_hundred | Average amount of people that received at least one COVID-19 vaccine per 100-person sample | Real | 91.78 |
| people_fully_vaccinated_per_hundred | Average amount of people who received all prescribed COVID-19 doses per 100-person sample | Real | 91.31 |
| people_with_booster_per_hundred | Average amount of people who received COVID-19 booster shots per 100-person sample | Real | 80.94 |

vaccinations-by-manufacturer.csv

Data Dimensions: 68509 x 4 (Not including header row)

| Variable | Description | Data Type | Example |
|--------------------|---|-------------------|------------|
| location | Country Name | Character | Sweden |
| date | Date of record in dd/mm/yyyy format | Date (dd/mm/yyyy) | 26/02/2021 |
| vaccine | COVID-19 Vaccination Brand Administered | Character | Moderna |
| total_vaccinations | Number of vaccinations administered | Integer | 22887 |

vaccinations.csv

Data Dimensions: 196246 x 16 (Not including header row)

| Variable | Description | Data Type | Example |
|--------------------------------|---|-------------------|----------------|
| location | Country Name | Character | United Kingdom |
| iso_code | Country code in ISO 3166-1 alpha-3 format | Character | GBR |
| date | Date of record in dd/mm/yyyy format | Date (dd/mm/yyyy) | 14/07/2022 |
| total_vaccinations | Total amount of COVID-19 vaccines administered | Integer | 150226878 |
| people_vaccinated | Amount of people that received at least one COVID-19 vaccine | Integer | 53667074 |
| people_fully_vaccinated | Total amount of people who received all prescribed COVID-19 doses | Integer | 50340119 |
| total_boosters | Total amount of COVID-19 booster shots administered | Integer | 40109619 |
| daily_vaccinations_raw | Daily amount of COVID-19 vaccinations administered (not recommended for analysis) | Integer | 31000 |
| daily_vaccinations | Daily number of COVID-19 vaccinations administered (smoothed over 7 days) | Integer | 31768 |
| total_vaccinations_per_hundred | Average amount of COVID-19 vaccines administered per 100-person sample | Real | 222.53 |

| | | | |
|-------------------------------------|---|---------|-------|
| people_vaccinated_per_hundred | Average amount of people that received at least one COVID-19 vaccine per 100-person sample | Real | 79.5 |
| people_fully_vaccinated_per_hundred | Average amount of people who received all prescribed COVID-19 doses per 100-person sample | Real | 74.57 |
| total_boosters_per_hundred | Average amount of COVID-19 booster shots administered per 100-person sample | Real | 59.41 |
| daily_vaccinations_per_million | Daily amount of COVID-19 vaccinations administered (smoothed over 7 days) per 1,000,000-person sample | Integer | 471 |
| daily_people_vaccinated | Daily amount of people receiving COVID-19 vaccinations (smoothed over 7 days) | Integer | 3544 |
| daily_people_vaccinated_per_hundred | Daily amount of people receiving COVID-19 vaccinations (smoothed over 7 days) per 100-person sample | Real | 0.005 |

country_data/China.csv

Data Dimensions: 679 x 8 (Not including header row)

| Variable | Description | Data Type | Example |
|-------------------------|---|-------------------|---|
| location | Country Name (China) | Character | China |
| date | Date of vaccine administration information, presented in dd/mm/yyyy format | Date (dd/mm/yyyy) | 19/11/2021 |
| vaccines | COVID-19 vaccines administered in country, concatenated with “,” separators | Character | CanSino, IMBCAMS, KCONVAC, Sinopharm/Beijing, Sinopharm/Wuhan, Sinovac, ZF2001 |
| source_url | URL for vaccine administration information | Character | http://www.nhc.gov.cn/xcs/s3574/202111/019a8b08d32740258899260f15592f40.shtml |
| total_vaccinations | Total amount of COVID-19 vaccines administered | Integer | 2422908000 |
| people_vaccinated | Amount of people that received at least one COVID-19 vaccine | Integer | 1225000000 |
| people_fully_vaccinated | Total amount of people who received all prescribed COVID-19 doses | Integer | 1076308000 |
| total_boosters | Total amount of COVID-19 booster shots administered | Integer | 65730000 |

country_data/India.csv

Data Dimensions: 1250 x 8 (Not including header row)

| Variable | Description | Data Type | Example |
|------------|---|-------------------|---|
| location | Country Name (India) | Character | India |
| date | Date of vaccine administration information, presented in dd/mm/yyyy format | Date (dd/mm/yyyy) | 11/08/2024 |
| vaccines | COVID-19 vaccines administered in country, concatenated with “,” separators | Character | Corbevax, Covaxin, Novavax, Oxford/AstraZeneca, Sputnik V |
| source_url | URL for vaccine administration information | Character | https://dashboard.cowin.gov.in/ |

| | | | |
|-------------------------|---|---------|------------|
| total_vaccinations | Total amount of COVID-19 vaccines administered | Integer | 2206867993 |
| people_vaccinated | Amount of people that received at least one COVID-19 vaccine | Integer | 1027438922 |
| people_fully_vaccinated | Total amount of people who received all prescribed COVID-19 doses | Integer | 951990547 |
| total_boosters | Total amount of COVID-19 booster shots administered | Integer | 227438524 |

country_data/United States.csv

Data Dimensions: 878 x 8 (Not including header row)

| Variable | Description | Data Type | Example |
|-------------------------|---|-------------------|---|
| location | Country Name (United States) | Character | United States |
| date | Date of vaccine administration information, presented in dd/mm/yyyy format | Date (dd/mm/yyyy) | 5/02/2021 |
| vaccines | COVID-19 vaccines administered in country, concatenated with “,” separators | Character | Moderna, Pfizer/BioNTech |
| source_url | URL for vaccine administration information | Character | https://data.cdc.gov/Vaccinations/COVID-19-Vaccination-Trends-in-the-United-States-N/rh2h-3yt2 |
| total_vaccinations | Total amount of COVID-19 vaccines administered | Integer | 48076553 |
| people_vaccinated | Amount of people that received at least one COVID-19 vaccine | Integer | 35667252 |
| people_fully_vaccinated | Total amount of people who received all prescribed COVID-19 doses | Integer | 11461790 |
| total_boosters | Total amount of COVID-19 booster shots administered | Integer | 2 |

country_data/Ireland.csv

Data Dimensions: 1059 x 8 (Not including header row)

| Variable | Description | Data Type | Example |
|-------------------------|---|-------------------|---|
| location | Country Name (Ireland) | Character | Ireland |
| date | Date of vaccine administration information, presented in dd/mm/yyyy format | Date (dd/mm/yyyy) | 9/10/2021 |
| vaccines | COVID-19 vaccines administered in country, concatenated with “,” separators | Character | Johnson&Johnson, Moderna, Oxford/AstraZeneca, |
| source_url | URL for vaccine administration information | Character | https://covid19ireland-geohive.hub.arcgis.com/ |
| total_vaccinations | Total amount of COVID-19 vaccines administered | Integer | 7433810 |
| people_vaccinated | Amount of people that received at least one COVID-19 vaccine | Integer | 3839195 |
| people_fully_vaccinated | Total amount of people who received all prescribed COVID-19 doses | Integer | 3767295 |
| total_boosters | Total amount of COVID-19 booster shots administered | Integer | 68210 |