Covid-19 Reporting System

You work for a health services provider called HeartBeat Inc., and your supervisor, Burt Lancaster, has instructed you to investigate whether or not it is feasible to develop a computer workflow process that would allow the local health authority to report on the number of covid-19 cases, deaths and vaccines on a daily basis. The system should accomplish the following:

1. Download daily updates for all Canadian Provinces for number of: Cases, Deaths, and Vaccinations in csv format from api.covid19tracker.ca in json format
2. Identify and merge the new data into a Covid-19 MS SQL Database making sure there aren’t duplicates in the database.
3. Automate the database update process using the MSSQL Database scheduler by running an MS SSIS package on a daily basis
4. Provide the ability to view and print an MS SSRS Report showing how many cases, deaths and vaccinations administered, all by 100,000 population
5. Provide the ability to view a Map (geospatial polygons) of the highest to lowest concentrations of cases, deaths and vaccinations in MS PowerBI

Assignment 3 – ERD and Data Dictionary (5pts)

In groups of 2 students.

1. Please create an ERD using draw.io for the database that will contain Cases, Deaths, Vaccinations, and Province Populations. You will need to consider the data being returned by your query at api.covid19tracker.ca. Also, please ensure that all relationships between entities are in 3NF and all columns are identified, as well as all PK and FKs. (3pts)

Link example: <https://api.covid19tracker.ca/reports/province/ns>

1. Please create a Data Dictionary for the database that will contain Cases, Deaths, Vaccinations, and Province Populations. You will need to consider the data being returned by your query at api.covid19tracker.ca, and the province population data found at <https://api.covid19tracker.ca/provinces> (2pts)

Note: version, date, and creators need to be included on your ERD.

Please upload a png version of your ERD, and a pdf of your Data Dictionary.