**Jignasuben R Vekariya- 002981797**

**Homework 6**

As an individual dataset contains various features and millions of records. After reading the commitment to protecting nursing home and residents, it’s crucial thing to have track of vaccination background of residents and staff.

Therefore, I trimmed dataset and plan to load data only about vaccination details like either they’re vaccinated or not, if vaccinated which vaccine they received and how many dose.

**QU1**: How loading data? Using SSIS or BCP

From all provided datasets, I selected latest dataset which contain details up to March 2022 because I want to analyze the vaccinated staff and residents and as we know vaccination is mostly increase after 2021 and until 2022 booster requirement is also become necessary.

Step1: Extract data

Extract vaccination data columns from the dataset and create whole new dataset.

Step2: Filter data

Replace column values which contains delimiter comma(,) to space in the string. As it’ll help further in SSIS process while mapping the columns.

Step3: Loading data

After extracting and filtering data, load the data into SQL Server using SSIS and BCP process.

**QU2**: Load data into SQL using SSIS (10 Points)

A screenshot of a computer

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**QU3**: Load data using BCP (5 points)

Text

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**QU4**: Analyze data (30 Points). Provide set of analysis (up to 1 page/2 table or graph)

Analysis:1

Graphical user interface, application

Description automatically generated

Analysis :2

Graphical user interface, text, application, email

Description automatically generated

Analysis :3

**Graphical user interface, text, application

Description automatically generated**

Analysis:4

**Graphical user interface, text, application, Word

Description automatically generated**

Analysis:5

**Table

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Analysis:6

**Graphical user interface, text, application

Description automatically generated**

**QU5**: What’s step to take if file provided again? What step for loading the data. (10 Points)

First, I try to load data using BCP which I was unable to perform because of some error.

Further for the new data, I’ll update using incremental load in SSIS which compares source table and target table based on date or time.

**QU6**: Modify SSIS package to handle the next month data

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Description automatically generated

As I loaded recent data in first SSIS, I just uploaded process of incremental load.

**QU7**: The file will also be in module 5

Create new file of test data show.. how created the input file (5 Points)