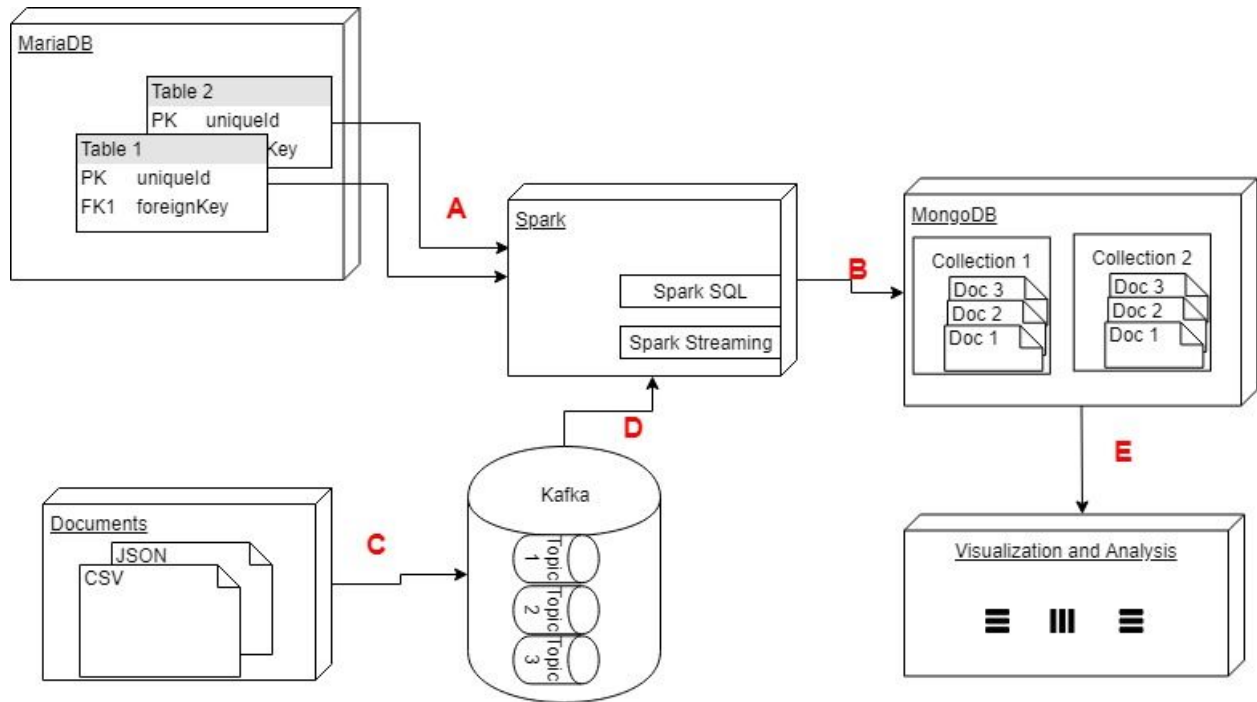


1) Case Study Workflow Diagram



2) About this Dataset

The Health Insurance Marketplace Data Set overview

The “Health Insurance Marketplace” files contain the data on health and dental plans offered to individuals and small businesses through the US Health Insurance Marketplace.

Below are the dataset information about the different departments of data throughout the years. You can access the files via the attached links.

- **BenefitsCostSharing.txt** – Plan variant-level data on essential health benefits, coverage limits, and cost-sharing.

BenefitName | BusinessYear | EHBVarReason | IsCovered | IssuerId |
LimitQty | LimitUnit | MinimumStay | PlanId | SourceName |
StateCod

Url:

https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/BenefitsCostSharing_partOne.txt

https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/BenefitsCostSharing_partTwo.txt

https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/BenefitsCostSharing_partThree.txt

https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/BenefitsCostSharing_partFour.txt

- **Network.csv** – Issuer-level data identifying provider network URLs

```
BusinessYear | StateCode | IssuerId | SourceName | VersionNum |  
ImportDate | IssuerId2 | StateCode2 | NetworkName | NetworkId |  
NetworkURL | RowNumber | MarketCoverage | DentalOnlyPlan
```

Url: <https://github.com/platformps/Healthcare-Insurance-Data/blob/master/Network.csv>

- **ServiceArea.csv** – Issuer-level data on geographic service areas including state, county, and zip code.

```
BusinessYear | County | CoverEntireState | ImportDate | IssuerId |  
IssuerId2 | PartialCounty | PartialCountyJustification | RowNumber |  
ServiceAreaId | ServiceAreaName | SourceName | StateCode | StateCode2 |  
VersionNum | ZipCodes |
```

Url:

<https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/ServiceArea.csv>

- **Insurance.txt**

```
age | bmi | charges | children | region | sex | smoker.
```

1. age: age of the primary beneficiary
2. sex: insurance contractor and gender: female, male, non-binary
3. bmi: body mass index, providing an understanding of the body, weights that are relatively high or low relative to height, objective index of body weight (kg / m^2) using the ratio of height to weight, ideally 18.5 to 24.9
4. children: the number of children covered by health insurance/number of dependents
5. smoker: smoker or non-smoker
6. region: the beneficiary's residential area in the US, northeast, southeast, southwest, northwest
7. charges: Individual medical costs billed by health insurance

Url:

<https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/insurance.txt>

- **PlanAttributes.txt** – Plan-level data on maximum out of pocket payments, deductibles, HSA eligibility, formulary ID, and other plan attributes.

Url:

<https://raw.githubusercontent.com/platformps/Healthcare-Insurance-Data/master/PlanAttributes.csv>

Credit Card Database overview

The Credit Card System database is an independent system developed to manage activities like registering new customers, approving or canceling requests, etc. using the architecture.

A credit card is a card issued to users in order to enact the system of payment. It allows the cardholder to access health insurance and services in exchange for the holder's promise to pay for them. The Credit Card products/table will include the fields that can be adjusted and viewed by the managers of the bank.

Below are three tables that contain the customer's transaction information and inventories in the credit card database.

a) Customer Details: This table is used by the financial accounts manager to register the existing customer details into the system.

b) Transaction Details: This table is used by the financial accounts manager to enter the bank details received upon request from the administrator. The table should then update the customer details in the system along for the corresponding customers.

c) Branch Details: Each branch's information and details are recorded in this table. This table is used by the branch manager to enter the branch's information.

Note:

The schema information of the customer, transaction, and branch tables are further discussed in detail in the mapping document.

You can find the SQL file "CDW_SAPP.sql" in the "case study folder" directory which can be used to generate the Credit card database.