

Big Query and Web Application Sample Project

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Initial Exploration

I explored the Synthea FHIR dataset available from Google Cloud Public Datasets, which includes over one million synthetic patient records generated using Synthea in FHIR format and exported from the Google Cloud Healthcare API FHIR Store into BigQuery using the analytics schema. I chose this dataset to showcase my ability to work with healthcare interoperability standards, but it introduced unique challenges since the FHIR format, primarily designed for JSON messaging, required significant adaptation to fit an SQL context. This complexity pushed me to think creatively about how to execute the queries, utilizing the UNNEST keyword to extract individual values. The first thing I did was pull all the tables and their columns using the SQL query below. Full results can be seen in Appendix A.

```
SELECT
  t.table_name,
  c.column_name,
  c.data_type
FROM
```

```

`bigquery-public-data.fhir_synthea.INFORMATION_SCHEMA.TABLES` AS t
LEFT JOIN
`bigquery-public-data.fhir_synthea.INFORMATION_SCHEMA.COLUMNS` AS c
ON
t.table_name = c.table_name
WHERE
t.table_type = 'BASE TABLE'
ORDER BY
t.table_name, c.ordinal_position;

```

Results:

```

...
{
  "table_name": "medication_request",
  "column_name": "priorPrescription",
  "data_type": "STRUCT\u003cmedicationRequestId STRING, reference STRING,
  identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
  ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
  STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
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  STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
  STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
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  `end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
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  STRING\u003e"
}, {
  "table_name": "medication_request",
  "column_name": "priority",
  "data_type": "STRING"
},
...

```

Forming Basis for the Queries

I initially set out to identify all patients with "Social Isolation" in their observations, as this seemed like a meaningful factor to analyze. However, this search yielded no results, as did my attempts to query other Social Determinants of Health (SDOH) factors. It appears that Synthea might not include SDOH data as part of its dataset. As a result, I pivoted to using Depression Disorder for my queries.

For reference, the SNOMED CT code for "Social Isolation" is 422650009, and the code for "Decreased Social Isolation" is 733817003. Other SNOMED CT codes for SDOH concepts I tried include:

- 733424009: Housing instability
- 733426006: Unemployment
- 733427002: Exposure to violence
- 733428007: Lack of social support

I was able to get all codes for conditions using the following query. I was also able to get all observations by merely changing the table without changing the query. The results can be seen in Appendix B for conditions and Appendix C for observations.

```
SELECT

coding_entry.display,

coding_entry.code

FROM

`bigquery-public-data.fhir_synthea.condition`,

UNNEST(code.coding) AS coding_entry

GROUP BY

coding_entry.display,

coding_entry.code;
```

The following were codes of interest in the condition and observation tables.

Observation:

```
{
  "display": "Suicide prevention note",
  "code": "87626-8"
},
{
  "display": "Housing status",
  "code": "71802-3"
},
{
  "display": "Mental health Telehealth Note",
```

```
"code": "84215-3"
},
{
  "display": "Mental health Outpatient Note",
  "code": "75443-2"
},
```

Condition

```
{
  "display": "Major depression, single episode",
  "code": "36923009"
},
{
  "display": "At risk for suicide (finding)",
  "code": "225444004"
},
{
  "display": "Major depression disorder",
  "code": "370143000"
},
{
  "display": "Attempted suicide - cut/stab",
  "code": "287185009"
},
{
  "display": "Suicidal deliberate poisoning",
  "code": "86849004"
},
{
  "display": "Attempted suicide - suffocation",
  "code": "287182007"
},
},
```

There were 6908 patients with the conditions listed above.

```
SELECT
Count(subject.patientId)
FROM
`bigquery-public-data.fhir_synthea.condition`,
UNNEST(code.coding) AS coding_entry
```

WHERE

```
CAST(coding_entry.code AS STRING) IN ("36923009", "225444004", "370143000",  
"287185009", "86849004", "287182007")  
;
```

The observations were a bit more complicated, as just because some one was a mental health note or housing status listed, does not mean its a bad thing. The housing statuses all came back as homeless and all mental health notes were in the category of therapy so I wanted to include them as well.

SELECT

DISTINCT category

FROM

```
`bigquery-public-data.fhir_synthea.observation`,
```

```
UNNEST(code.coding) AS coding_entry
```

WHERE

```
CAST(coding_entry.code AS STRING) IN ("87626-8", "84215-3", "75443-2")
```

;

Number of Patients Who Have A Condition or Observation of Interest

The next step was to combine the queries above to get one list of Patient IDs to use for greater exploration. To do this, I used UNION DISTINCT to combine the lists with no repeating IDs. This gave me a count of 25,568 total patients of interest. Please see Appendix D for full results.

```
SELECT COUNT(DISTINCT patientId) AS patient_count  
FROM (  
  SELECT DISTINCT subject.patientId  
  FROM  
    `bigquery-public-data.fhir_synthea.observation`,  
    UNNEST(code.coding) AS coding_entry  
  WHERE  
    CAST(coding_entry.code AS STRING) IN ("87626-8", "84215-3", "75443-2",  
"71802-3")
```

```
UNION DISTINCT
```

```
SELECT DISTINCT subject.patientId
FROM
  `bigquery-public-data.fhir_synthea.condition`,
  UNNEST(code.coding) AS coding_entry
WHERE
  CAST(coding_entry.code AS STRING) IN ("36923009", "225444004", "370143000",
"287185009", "86849004", "287182007")
);
```

Query 1: Geographical Distribution of Patients of Interest

Now that I had found all the distinct patientIds, we can do some interesting queries of the data. The first was to use list of patientIds to pull all the addresses of the patients and use the zip code to create a geographical distribution of the patients. This can help us see how location might be correlated with rates of our targeted mental.

```
SELECT
```

```
address_entry.postalCode,
```

```
COUNT(*) as patients
```

```
FROM `bigquery-public-data.fhir_synthea.patient`,
```

```
UNNEST(address) AS address_entry
```

```
WHERE id in (
```

```
SELECT DISTINCT subject.patientId
```

```
FROM
```

```
`bigquery-public-data.fhir_synthea.observation`,
```

```
UNNEST(code.coding) AS coding_entry
```

```
WHERE
```

```
CAST(coding_entry.code AS STRING) IN ("87626-8", "84215-3", "75443-2", "71802-3")
```

```
UNION DISTINCT
```

```
SELECT DISTINCT subject.patientId
```

```
FROM
```

```
`bigquery-public-data.fhir_synthea.condition`,
```

```
UNNEST(code.coding) AS coding_entry
```

```
WHERE
```

```
CAST(coding_entry.code AS STRING) IN ("36923009", "225444004", "370143000",  
"287185009", "86849004", "287182007")
```

```
)
```

```
GROUP BY address_entry.postalCode
```

```
;
```

Query 2: Average Number of Claims Per Age Group of Patients of Interest vs Patients In General Population

For the next query, I took on a significantly more complex query that required transitioning from SQL to Python. I opted for PySpark, leveraging my experience with it in Databricks and AWS Glue at NACHC. This approach, while powerful, surfaced several learning opportunities. I made a few mistakes during this phase that I would typically avoid in a production environment. For instance, pulling all the data from every table instead of leveraging my well-defined SQL queries to limit the data upfront. Additionally, I underestimated the computational resources needed for such a large dataset, especially on the free tier, which constrained my progress.

One critical realization was the importance of Python for handling the nested structure of the FHIR standard, especially since patient IDs had to be extracted to create joins, and the data only provided birth dates instead of ages. To reduce space complexity, I minimized the size of my data frames as much as possible. I also encountered and resolved various infrastructure challenges, particularly around permissions, which I will detail in a later section.

In terms of data transformations, my PySpark code accomplished the following:

- Loaded patient, claims, observation, and condition tables from BigQuery.
- Extracted relevant patient IDs from observations and conditions based on specific SNOMED CT codes.
- Unified these IDs into a target population by combining and deduplicating them.

- Applied a custom Python function via UDF to classify patients into age groups based on their birth dates.
- Joined the claims data with patient demographics to calculate metrics by age group.
- Computed aggregate statistics, such as the average number of claims per patient, for both the overall population and the target population.
- Performed a comparative analysis between the two groups and wrote the results back to BigQuery.

Results:

Row	Age Group	Overall Claims	Overall Unique Patients	Avg Overall Claims	Target Claims	Target Unique Patients	Avg Target Claims
1	18-21	1,378,552	50,673	27.20	18,241	575	31.72
2	22-30	4,793,534	129,990	36.88	95,326	1,888	50.49
3	31-40	4,861,419	141,023	34.47	107,117	2,336	45.85
4	41-50	4,288,833	128,465	33.39	102,221	2,232	45.80
5	51-60	5,316,405	153,894	34.55	185,303	4,013	46.18
6	61-75	9,056,613	209,526	43.22	314,070	4,884	64.31
7	75+	19,177,259	220,612	86.93	587,177	5,102	115.09
8	<18	3,041,898	142,654	21.32	120,470	4,538	26.55

Creating the Looker Dashboard

Adjusting to Looker after being accustomed to Tableau required some research, as every BI platform has its own quirks. To achieve my goals, I transformed the postalCode field from a string to a Zip Code format, implemented customized logic to ensure the bars in the bar graph were sorted correctly, and added custom colors and titles to enhance the visualization. Despite the learning curve, these adjustments allowed me to create the desired outputs effectively.

The Looker dashboard can be found at: <https://lookerstudio.google.com/reporting/6c0f855d-3305-44aa-a244-401791c6ed5a>

Creating the Web App

Creating the web app allowed me to fully utilize and showcase my skills with React, Tailwind, and Express. The process involved designing a user-friendly interface, implementing efficient backend operations, and ensuring seamless integration between components. However, it was far from a smooth journey, as I faced several technical challenges along the way. The most difficult obstacle was figuring out how to host the web app securely and with the proper privileges required for a cloud environment. This involved extensive research, testing, and troubleshooting to arrive at a viable solution.

My code can be found at: <https://github.com/dabarbarian125/bigquery-sample-nodejs>

The hosted project can be accessed at: <http://35.243.213.58:8080/>

Infrastructure as Code through Pulumi

The majority of my background is in AWS, which offers a wealth of Infrastructure-as-Code (IaC) tools that work exceptionally well. For example, a recent project I completed in AWS, detailed in Appendix F, highlights these capabilities. However, my experience with Google Cloud has shown me that its integration with Pulumi is not as robust as I initially believed. While I was able to launch a BigQuery job with relative ease for my first query, attempting to run the second query using Dataproc proved much more challenging and fell outside the intended scope of this exercise.

To overcome these challenges, I had to launch Dataproc through a local command to establish a development environment where I could build and test my PySpark job effectively. I also initially expected to configure my Looker dashboard via Pulumi, but I quickly discovered that automated tools offer limited functionality in this area. In the future, I plan to explore gcloud tools for such tasks.

Setting up a VM instance to host my web app was relatively straightforward; however, I needed to SSH into the instance to manually program several components. This process highlighted some of the gaps in Pulumi's utility for GCP projects. Moving forward, I believe relying on Google Cloud's native tools might be a more effective approach for managing infrastructure. Overall, this experience underscored the differences in IaC tool support across cloud platforms and the importance of adapting my approach to each environment.

My infrastructure code can be found here: <https://github.com/dabarbarian125/bigquery-sample-infrastructure>

Next Steps

1. Build a predictive learning model focusing on the targets of interest to identify factors that may predict mental illnesses. This would involve leveraging machine learning techniques to analyze and interpret data trends.
2. Refine the web application infrastructure to improve its performance, scalability, and maintainability, ensuring it can handle increased user demand and integrate with additional features seamlessly.
3. Add additional functionality to the web application to enhance its usability and provide a more comprehensive tool for end-users, potentially incorporating new features based on user feedback and project goals.

Appendices

Appendix A: Synthea Schema

```

[ {
  "table_name": "allergy_intolerance",
  "column_name": "asserter",
  "data_type": "STRUCT\u003cpatientId STRING, relatedPersonId STRING,
practitionerId STRING, reference STRING, identifier STRUCT\u003cuse STRING,
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code STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference STRING,
identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
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STRING, display STRING\u003e\u003e, display STRING\u003e\u003e\u003e"
}, {
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}, {
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  "data_type": "STRING"
}, {
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  "column_name": "lastOccurrence",
  "data_type": "STRING"
}, {
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  "data_type": "ARRAY\u003cSTRUCT\u003cauthor STRUCT\u003creference
STRUCT\u003cpractitionerId STRING, patientId STRING, relatedPersonId STRING,
reference STRING, identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding

```

```

ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
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STRUCT\u003cvalue FLOAT64, unit STRING, system STRING, code STRING\u003e, high
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STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e, string STRING\u003e, time STRING, text
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}, {
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```

```
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```

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}, {
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}, {
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  "column_name": "created",
```

```
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STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
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timing STRUCT\u003cdate STRING, period STRUCT\u003cstart STRING, `end`
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ARRAY\u003cSTRUCT\u003cdisplay STRING, userSelected BOOL, version STRING, code
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STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
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category STRUCT\coding ARRAY\STRUCT\system STRING, version
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STRUCT\value FLOAT64, comparator STRING, unit STRING, system STRING, code
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version STRING, code STRING, display STRING, userSelected BOOL\organizationId,
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STRUCT\u003ccodeableConcept STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
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STRUCT\u003cuse STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
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system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
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identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
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system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
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STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
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STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
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STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
```

```
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e"
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STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, display
STRING\u003e\u003e, display STRING\u003e\u003e, display STRING\u003e,
dietPreference ARRAY\u003cSTRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
```



```
STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e\u003e, origin STRUCT\u003clocationId
STRING, reference STRING, identifier STRUCT\u003cuse STRING, type
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
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system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
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identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
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STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e\u003e, display
STRING\u003e\u003e, display STRING\u003e\u003e, reAdmission STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e\u003e, individual STRUCT\u003cdisplay
STRING, identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, reference
STRING, relatedPersonId STRING, practitionerId STRING\u003e\u003e\u003e"
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code STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference STRING,
identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, display
STRING\u003e\u003e, display STRING\u003e\u003e, reference STRING,
organizationId STRING\u003e"
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BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
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STRING, patientId STRING\u003e"
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STRING, system STRING\u003e\u003e, text STRING\u003e\u003e"
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STRUCT\u003caddress STRUCT\u003cuse STRING, type STRING, text STRING, line
ARRAY\u003cSTRING\u003e, city STRING, district STRING, state STRING, postalCode
STRING, country STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e\u003e, reference STRUCT\u003clocationId STRING, reference STRING,
identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e\u003e\u003e"
}
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STRING\u003e, category STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING,
version STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e,
text STRING\u003e, service STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e, modifier ARRAY\u003cSTRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e\u003e, fee
STRUCT\u003cvalue FLOAT64, comparator STRING, unit STRING, system STRING, code
STRING\u003e, noteNumber ARRAY\u003cINT64\u003e, adjudication
ARRAY\u003cSTRUCT\u003ccategory STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, reason
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
amount STRUCT\u003cvalue FLOAT64, comparator STRING, unit STRING, system
STRING, code STRING\u003e, value FLOAT64\u003e\u003e, detail
ARRAY\u003cSTRUCT\u003crevenue STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e, category STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, service
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
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version STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e,
text STRING\u003e\u003e, fee STRUCT\u003cvalue FLOAT64, comparator STRING, unit
STRING, system STRING, code STRING\u003e, noteNumber ARRAY\u003cINT64\u003e,
adjudication ARRAY\u003cSTRUCT\u003ccategory STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, reason
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
amount STRUCT\u003cvalue FLOAT64, comparator STRING, unit STRING, system
STRING, code STRING\u003e, value FLOAT64\u003e\u003e\u003e\u003e\u003e\u003e\u003e"
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STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
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excluded BOOL, name STRING, description STRING, network STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, unit
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, term
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
financial ARRAY\u003cSTRUCT\u003ctype STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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comparator STRING, unit STRING, system STRING, code STRING\u003e\u003e, used
STRUCT\u003cunsignedInt INT64, money STRUCT\u003cvalue FLOAT64, comparator
STRING, unit STRING, system STRING, code
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STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
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STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
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STRING, version STRING, code STRING, display STRING, userSelected

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BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
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`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
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BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,

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```
timing STRUCT\u003cdate STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e\u003e, value STRUCT\u003cstring STRING, quantity STRUCT\u003cvalue
FLOAT64, comparator STRING, unit STRING, system STRING, code STRING\u003e,
attachment STRUCT\u003ccontentType STRING, language STRING, data STRING, url
STRING, size INT64, `hash` STRING, title STRING, creation STRING\u003e,
reference STRUCT\u003cresourceId STRING, reference STRING, identifier
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STRING, version STRING, code STRING, display STRING, userSelected
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STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e\u003e, reason STRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e\u003e"
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BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRING, unit STRING, system STRING, code STRING\u003e, denominator
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STRING, system STRING, code STRING\u003e\u003e, quantity STRUCT\u003cvalue
FLOAT64, unit STRING, system STRING, code STRING\u003e\u003e, route
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system STRING, code STRING\u003e\u003e, quantity STRUCT\u003ccode STRING,
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FLOAT64, durationUnit STRING, frequencyMax INT64, offset INT64, periodMax
FLOAT64, timeOfDay ARRAY\u003cSTRING\u003e, `when` ARRAY\u003cSTRING\u003e,
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STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value

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reference STRING, identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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system STRING, code STRING\u003e\u003e, text STRING\u003e\u003e"
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system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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STRUCT\u003corganizationId STRING, reference STRING, display
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STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
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STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
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STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
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STRING, system STRING, code STRING\u003e, high STRUCT\u003cvalue FLOAT64, unit
STRING, system STRING, code STRING\u003e, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
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system STRING, code STRING\u003e, high STRUCT\u003cvalue FLOAT64, unit STRING,
system STRING, code STRING\u003e\u003e, text STRING\u003e\u003e, code
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code STRING, display STRING, system STRING\u003e\u003e, text STRING\u003e,
value STRUCT\u003cattachment STRUCT\u003ccontentType STRING, language STRING,
data STRING, url STRING, size INT64, `hash` STRING, title STRING, creation
STRING\u003e, codeableConcept STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e, dateTime STRING, period STRUCT\u003cstart
STRING, `end` STRING\u003e, `range` STRUCT\u003clow STRUCT\u003cvalue FLOAT64,
unit STRING, system STRING, code STRING\u003e, high STRUCT\u003cvalue FLOAT64,
unit STRING, system STRING, code STRING\u003e\u003e, ratio
STRUCT\u003cnumerator STRUCT\u003cvalue FLOAT64, comparator STRING, unit
STRING, system STRING, code STRING\u003e, denominator STRUCT\u003cvalue
FLOAT64, comparator STRING, unit STRING, system STRING, code
STRING\u003e\u003e, sampledData STRUCT\u003corigin STRUCT\u003cvalue FLOAT64,
unit STRING, system STRING, code STRING\u003e, period FLOAT64, factor FLOAT64,
```



```
lowerLimit FLOAT64, upperLimit FLOAT64, dimensions INT64, data STRING\u003e,  
string STRING, time STRING, quantity STRUCT\u003ccomparator STRING, code  
STRING, system STRING, unit STRING, value FLOAT64\u003e\u003e\u003e\u003e"  
}, {  
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STRUCT\u003cuse STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem  
STRING, version STRING, code STRING, display STRING, userSelected  
BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period  
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner  
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse  
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version  
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text  
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,  
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference  
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, reference  
STRING, encounterId STRING\u003e"  
}, {  
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STRING\u003e, dateTime STRING\u003e"  
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}, {  
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  "column_name": "issued",  
  "data_type": "TIMESTAMP"  
}, {  
  "table_name": "observation",  
  "column_name": "meta",  
  "data_type": "STRUCT\u003clastUpdated TIMESTAMP, security  
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display  
STRING, userSelected BOOL\u003e\u003e, tag ARRAY\u003cSTRUCT\u003csystem  
STRING, version STRING, code STRING, display STRING, userSelected  
BOOL\u003e\u003e, versionId STRING, profile ARRAY\u003cSTRING\u003e\u003e"  
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}, {  
  "table_name": "observation",  
  "column_name": "subject",
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identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, locationId
STRING, reference STRING, patientId STRING\u003e"
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creation STRING\u003e, boolean BOOL, dateTime STRING, period STRUCT\u003cstart
STRING, `end` STRING\u003e, `range` STRUCT\u003clow STRUCT\u003cvalue FLOAT64,
unit STRING, system STRING, code STRING\u003e, high STRUCT\u003cvalue FLOAT64,
unit STRING, system STRING, code STRING\u003e\u003e, ratio
STRUCT\u003cnumerator STRUCT\u003cvalue FLOAT64, comparator STRING, unit
STRING, system STRING, code STRING\u003e, denominator STRUCT\u003cvalue
FLOAT64, comparator STRING, unit STRING, system STRING, code
STRING\u003e\u003e, sampledData STRUCT\u003corigin STRUCT\u003cvalue FLOAT64,
unit STRING, system STRING, code STRING\u003e, period FLOAT64, factor FLOAT64,
lowerLimit FLOAT64, upperLimit FLOAT64, dimensions INT64, data STRING\u003e,
time STRING, codeableConcept STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003cuserSelected BOOL, version STRING, code STRING, display
STRING, system STRING\u003e\u003e, text STRING\u003e, quantity
STRUCT\u003ccomparator STRING, code STRING, system STRING, unit STRING, value
FLOAT64\u003e, string STRING\u003e"
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}, {
  "table_name": "organization",
  "column_name": "endpoint",
  "data_type": "ARRAY\u003cSTRUCT\u003cendpointId STRING, reference STRING,
identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
```

```

STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e\u003e"
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  "data_type": "STRING"
}, {
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  "column_name": "language",
  "data_type": "STRING"
}, {
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  "column_name": "partOf",
  "data_type": "STRUCT\u003corganizationId STRING, reference STRING, identifier
STRUCT\u003cuse STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem
STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e"
}, {
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  "data_type": "STRUCT\u003cstatus STRING, div STRING\u003e"
}, {
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  "column_name": "address",
  "data_type": "ARRAY\u003cSTRUCT\u003cdistrict STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, text STRING, type STRING, use
STRING, city STRING, country STRING, line ARRAY\u003cSTRING\u003e, postalCode
STRING, state STRING\u003e\u003e"
}, {
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  "column_name": "contact",

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STRING, text STRING, line ARRAY\u003cSTRING\u003e, city STRING, district
STRING, state STRING, postalCode STRING, country STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e\u003e, purpose STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, telecom
ARRAY\u003cSTRUCT\u003csystem STRING, value STRING, use STRING, rank INT64,
period STRUCT\u003cstart STRING, `end` STRING\u003e\u003e\u003e, name
STRUCT\u003cfamily STRING, given ARRAY\u003cSTRING\u003e, period
STRUCT\u003cstart STRING, `end` STRING\u003e, prefix ARRAY\u003cSTRING\u003e,
suffix ARRAY\u003cSTRING\u003e, use STRING, text STRING\u003e\u003e\u003e"
}, {
  "table_name": "organization",
  "column_name": "id",
  "data_type": "STRING"
}, {
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  "column_name": "identifier",
  "data_type": "ARRAY\u003cSTRUCT\u003cassigner STRUCT\u003corganizationId
STRING, reference STRING, identifier STRUCT\u003cuse STRING, type
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference STRING,
display STRING\u003e\u003e, display STRING\u003e, period STRUCT\u003cstart
STRING, `end` STRING\u003e, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, use STRING, system
STRING, value STRING\u003e\u003e"
}, {
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, tag ARRAY\u003cSTRUCT\u003csystem
STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, versionId STRING, profile ARRAY\u003cSTRING\u003e\u003e"
}, {
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  "column_name": "name",
  "data_type": "STRING"
}, {
  "table_name": "organization",
  "column_name": "telecom",
  "data_type": "ARRAY\u003cSTRUCT\u003cperiod STRUCT\u003cstart STRING, `end`
STRING\u003e, rank INT64, use STRING, system STRING, value STRING\u003e\u003e"
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```

}, {
  "table_name": "organization",
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ARRAY\u003cSTRUCT\u003cuserSelected BOOL, version STRING, code STRING, display
STRING, system STRING\u003e\u003e, text STRING\u003e\u003e"
}, {
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  "column_name": "active",
  "data_type": "BOOL"
}, {
  "table_name": "patient",
  "column_name": "animal",
  "data_type": "STRUCT\u003cspecies STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, breed
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
genderStatus STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e\u003e"
}, {
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ARRAY\u003cSTRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e\u003e, name STRUCT\u003cuse STRING, text STRING, family STRING,
given ARRAY\u003cSTRING\u003e, prefix ARRAY\u003cSTRING\u003e, suffix
ARRAY\u003cSTRING\u003e, period STRUCT\u003cstart STRING, `end`
STRING\u003e\u003e, telecom ARRAY\u003cSTRUCT\u003csystem STRING, value STRING,
use STRING, rank INT64, period STRUCT\u003cstart STRING, `end`
STRING\u003e\u003e\u003e, address STRUCT\u003cuse STRING, type STRING, text
STRING, line ARRAY\u003cSTRING\u003e, city STRING, district STRING, state
STRING, postalCode STRING, country STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e\u003e, gender STRING, organization
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, display

```

```

STRING\u003e\u003e, display STRING\u003e\u003e, display STRING\u003e, period
STRUCT\u003cstart STRING, `end` STRING\u003e\u003e\u003e"
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STRING, reference STRING, identifier STRUCT\u003cuse STRING, type
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference STRING,
identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, display
STRING\u003e\u003e, display STRING\u003e\u003e, display STRING\u003e\u003e"
}, {
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  "data_type": "STRING"
}, {
  "table_name": "patient",
  "column_name": "language",
  "data_type": "STRING"
}, {
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  "column_name": "link",
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relatedPersonId STRING, reference STRING, identifier STRUCT\u003cuse STRING,
type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING,
code STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference STRING,
identifier STRUCT\u003cuse STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, text STRING\u003e, system STRING, value
STRING, period STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, display
STRING\u003e\u003e, display STRING\u003e\u003e, display STRING\u003e, type
STRING\u003e\u003e"
}, {
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STRUCT\u003cuse STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem

```

```

STRING, version STRING, code STRING, display STRING, userSelected
BOOL\u003e\u003e, text STRING\u003e, system STRING, value STRING, period
STRUCT\u003cstart STRING, `end` STRING\u003e, assigner
STRUCT\u003corganizationId STRING, reference STRING, identifier STRUCT\u003cuse
STRING, type STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version
STRING, code STRING, display STRING, userSelected BOOL\u003e\u003e, text
STRING\u003e, system STRING, value STRING, period STRUCT\u003cstart STRING,
`end` STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference
STRING, display STRING\u003e\u003e, display STRING\u003e\u003e, display
STRING\u003e"
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data STRING, url STRING, size INT64, `hash` STRING, title STRING, creation
STRING\u003e\u003e"
}, {
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country STRING, state STRING\u003e\u003e\u003e"
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  "data_type": "STRUCT\u003cvalue STRUCT\u003cdecimal FLOAT64\u003e\u003e"
}, {
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  "data_type": "STRUCT\u003cvalue STRUCT\u003cstring STRING\u003e\u003e"
}, {
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  "column_name": "quality_adjusted_life_years",
  "data_type": "STRUCT\u003cvalue STRUCT\u003cdecimal FLOAT64\u003e\u003e"
}, {
  "table_name": "patient",
  "column_name": "shr_actor_FictionalPerson_extension",
  "data_type": "STRUCT\u003cvalue STRUCT\u003cboolean BOOL\u003e\u003e"
}, {
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  "column_name": "shr_demographics_SocialSecurityNumber_extension",
  "data_type": "STRUCT\u003cvalue STRUCT\u003cstring STRING\u003e\u003e"
}, {
  "table_name": "patient",
  "column_name": "shr_entity_FathersName_extension",
  "data_type": "STRUCT\u003cvalue STRUCT\u003chumanName STRUCT\u003ctext
STRING\u003e\u003e\u003e"

```

```
}, {
  "table_name": "patient",
  "column_name": "shr_entity_Person_extension",
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STRING\u003e\u003e\u003e"
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}, {
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  "column_name": "us_core_ethnicity",
  "data_type": "STRUCT\u003combCategory STRUCT\u003cvalue STRUCT\u003ccoding
STRUCT\u003ccode STRING, display STRING, system STRING\u003e\u003e\u003e, text
STRUCT\u003cvalue STRUCT\u003cstring STRING\u003e\u003e\u003e"
}, {
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  "column_name": "us_core_race",
  "data_type": "STRUCT\u003combCategory STRUCT\u003cvalue STRUCT\u003ccoding
STRUCT\u003ccode STRING, display STRING, system STRING\u003e\u003e\u003e, text
STRUCT\u003cvalue STRUCT\u003cstring STRING\u003e\u003e\u003e"
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STRUCT\u003cstart STRING, `end` STRING\u003e, text STRING, type STRING, use
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FLOAT64\u003e\u003e, longitude STRUCT\u003cvalue STRUCT\u003cdecimal
FLOAT64\u003e\u003e\u003e, city STRING, country STRING, line
ARRAY\u003cSTRING\u003e, postalCode STRING, state STRING\u003e\u003e"
}, {
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  "column_name": "birthDate",
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}, {
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  "column_name": "communication",
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STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003cuserSelected BOOL, version STRING,
code STRING, display STRING, system STRING\u003e\u003e, text
STRING\u003e\u003e\u003e"
}, {
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  "column_name": "deceased",
  "data_type": "STRUCT\u003cboolean BOOL, dateTime STRING\u003e"
}, {
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STRING, reference STRING, identifier STRUCT\u003cuse STRING, type
STRUCT\u003ccoding ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code
STRING, display STRING, userSelected BOOL\u003e\u003e, text STRING\u003e,
system STRING, value STRING, period STRUCT\u003cstart STRING, `end`
STRING\u003e, assigner STRUCT\u003corganizationId STRING, reference STRING,
display STRING\u003e\u003e, display STRING\u003e, period STRUCT\u003cstart
STRING, `end` STRING\u003e, use STRING, system STRING, type STRUCT\u003ccoding
ARRAY\u003cSTRUCT\u003cuserSelected BOOL, version STRING, code STRING, display
STRING, system STRING\u003e\u003e, text STRING\u003e, value STRING\u003e\u003e"
}, {
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"column_name": "maritalStatus",
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version STRING, code STRING, display STRING, system STRING\u003e\u003e, text
STRING\u003e"
}, {
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ARRAY\u003cSTRUCT\u003csystem STRING, version STRING, code STRING, display
STRING, userSelected BOOL\u003e\u003e, tag ARRAY\u003cSTRUCT\u003csystem
STRING, version STRING, code STRING, display STRING, userSelected
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Appendix B: Conditions in Synthea

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Appendix C: Observations in Synthea

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```
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```

Appendix E: Jupyter Notebook of Data Transformations for Claims Query

```
#!/usr/bin/env python
# coding: utf-8

# In[6]:

from google.cloud import storage
from pyspark.sql import SparkSession
from pyspark.sql.functions import col, when, avg, count, lit, explode, udf,
countDistinct
from pyspark.sql.types import StringType

client = storage.Client()

bucket_name = "dataproc-staging-us-east1-20792817356-qkkdcvir"
key_file_path = "keys/big-query-sample-444520-5164f2225e8c.json"

bucket = client.bucket(bucket_name)
blob = bucket.blob(key_file_path)
blob.download_to_filename("/tmp/service-account-key.json")
```

```
# In[11]:
```

```
spark = SparkSession.builder.appName("ClaimsAnalysis").getOrCreate()
```

```
table_path = f'{"big-query-sample-444520"}:{"sample_project_results"}.{"claims_analysis"}'
```

```
# In[12]:
```

```
claims = spark.read.format("bigquery").option("table", "bigquery-public-data.fhir_synthea.claim").load()
```

```
claims = claims.select("patient.patientId", "id")
```

```
patients = spark.read.format("bigquery").option("table", "bigquery-public-data.fhir_synthea.patient").load()
```

```
patients = patients.select("id", "birthDate")
```

```
# In[13]:
```

```
observation_df = spark.read.format("bigquery").option("table", "bigquery-public-data.fhir_synthea.observation").load()
```

```
condition_df = spark.read.format("bigquery").option("table", "bigquery-public-data.fhir_synthea.condition").load()
```

```
# In[14]:
```

```
observation_patient_ids = (  
    observation_df  
    .withColumn("coding_entry", explode(col("code.coding")))  
    .filter(col("coding_entry.code").cast("string").isin("87626-8", "84215-3",  
"75443-2", "71802-3"))  
    .select(col("subject.patientId").alias("patientId"))  
    .distinct()  
)
```

```
condition_patient_ids = (  
    condition_df  
    .withColumn("coding_entry", explode(col("code.coding")))  
    .filter(col("coding_entry.code").cast("string").isin("36923009",
```

```
"225444004", "370143000", "287185009", "86849004", "287182007"))  
    .select(col("subject.patientId").alias("patientId"))  
    .distinct()  
)
```

```
# In[15]:
```

```
target_population =  
observation_patient_ids.union(condition_patient_ids).distinct()
```

```
# In[16]:
```

```
def get_age_group(birth_date):  
    from datetime import datetime  
    if not birth_date:  
        return "Unknown"  
  
    try:  
        birth_date_parsed = datetime.strptime(birth_date, "%Y-%m-%d")  
        today = datetime.today()  
        age = today.year - birth_date_parsed.year - ((today.month, today.day) <  
(birth_date_parsed.month, birth_date_parsed.day))  
  
        if age < 18:  
            return "<18"  
        elif 18 <= age <= 21:  
            return "18-21"  
        elif 22 <= age <= 30:  
            return "22-30"  
        elif 31 <= age <= 40:  
            return "31-40"  
        elif 41 <= age <= 50:  
            return "41-50"  
        elif 51 <= age <= 60:  
            return "51-60"  
        elif 61 <= age <= 75:  
            return "61-75"  
        elif age > 75:  
            return "75+"  
        else:  
            return "Unknown"  
    except Exception:
```

```
return "Invalid Date"
```

```
# In[17]:
```

```
age_group_udf = udf(get_age_group, StringType())  
patients = patients.withColumn("age_group", age_group_udf(col("birthDate")))
```

```
# In[18]:
```

```
target_claims = claims.join(target_population, "patientId", "inner")
```

```
# In[19]:
```

```
patients = patients.withColumnRenamed("id", "patientId")  
claims_with_age = claims.join(patients.select("patientId", "birthDate",  
"age_group"), "patientId", "inner")  
target_claims_with_age = target_claims.join(patients.select("patientId",  
"birthDate", "age_group"), "patientId", "inner")
```

```
# In[20]:
```

```
overall_avg_claims = (  
    claims_with_age.groupBy("age_group")  
    .agg(count("id").alias("overall_claims"),  
countDistinct("patientId").alias("overall_unique_patients"))  
    .withColumn("avg_overall_claims", col("overall_claims") /  
col("overall_unique_patients"))  
)
```

```
# In[21]:
```

```
target_avg_claims = (  
    target_claims_with_age.groupBy("age_group")  
    .agg(count("id").alias("target_claims"),  
countDistinct("patientId").alias("target_unique_patients"))  
    .withColumn("avg_target_claims", col("target_claims") /
```

```
col("target_unique_patients"))
)

# In[22]:

comparison = (
    overall_avg_claims.join(target_avg_claims, "age_group", "outer")
    .withColumnRenamed("avg_claims", "overall_avg_claims")
    .withColumnRenamed("avg_claims", "target_avg_claims")
    .fillna(0)
)

# In[23]:

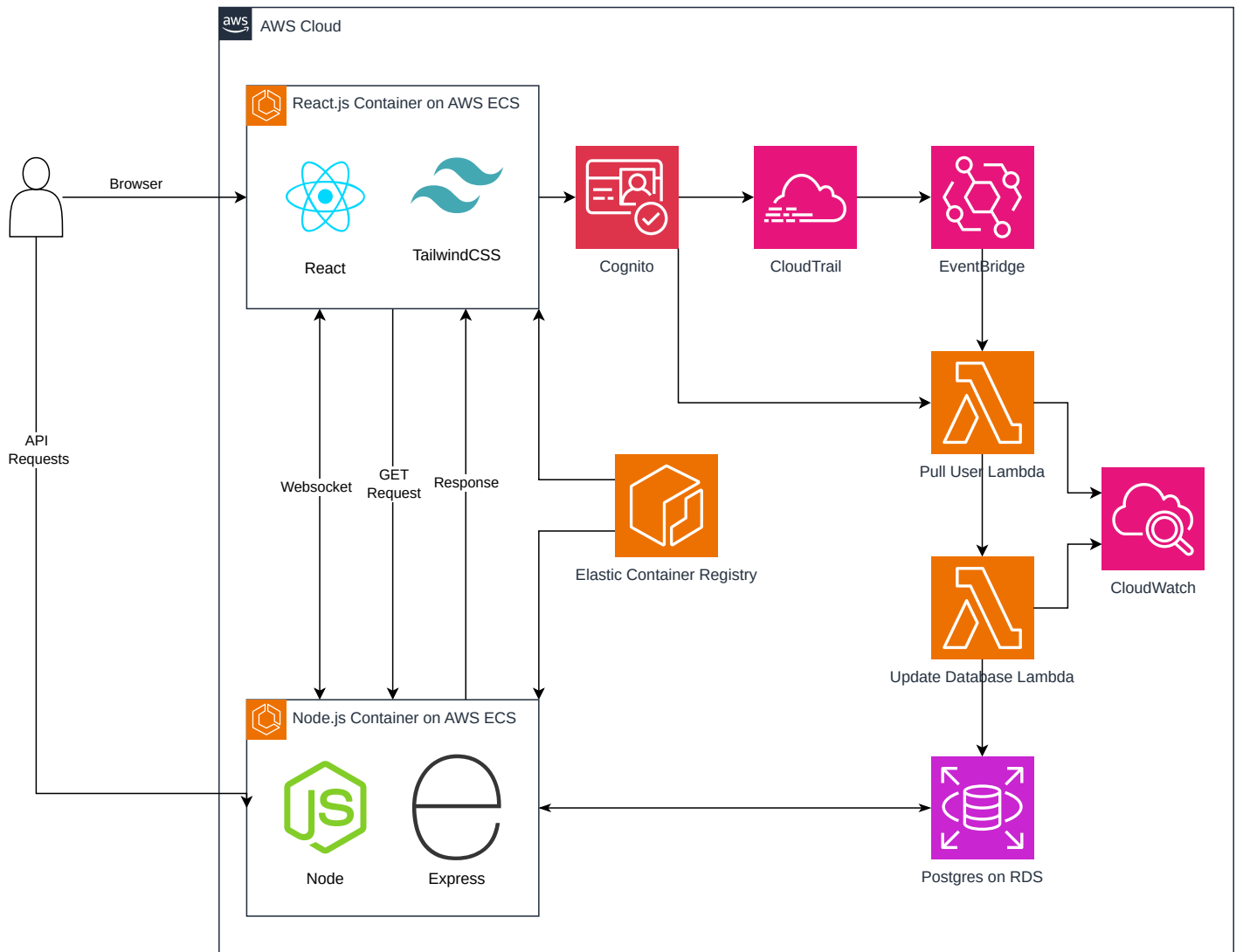
comparison.printSchema()

# In[24]:

comparison.write.format("bigquery").option("table",
table_path).option("temporaryGcsBucket", "dataproc-temp-us-east1-20792817356-
frxeeiaa").mode("overwrite").option("credentialsFile", "/tmp/service-account-
key.json").save()

# In[ ]:
```

Appendix F: Enterprise Protected Infrastructure Example



This project serves as a foundational example of an architecture that can be expanded upon to create large-scale enterprise applications. It is designed with scalability, maintainability, and extensibility in mind, utilizing a set of modern technologies and AWS services to provide a robust, scalable, and event-driven environment. This architecture can be tailored and expanded to meet the unique requirements of a variety of applications, making it an ideal starting point for developers building complex solutions. Below, we highlight the key features, technologies, and AWS services leveraged in this architecture.

Hosted Project: <http://aploadbalancer-6149276-228010628.us-east-1.elb.amazonaws.com/about>

Project Features

Frontend:

- **React:** User interface, written in JavaScript and styled using TailwindCSS to provide a responsive and modern design.
- **WebSockets:** Real-time messaging for features like chat functionality, notifications, and collaborative interactions.
- **AWS Cognito:** Client authentication, including email confirmations, MFA, and password management.

Backend:

- **Node.js & Express.js:** Backend written in TypeScript, with REST API endpoints and secure CORS implementation.
- **JWT Authentication:** Secure and scalable stateless authentication.

Database:

- **PostgreSQL:** Reliable and efficient database for handling complex queries with features like indexing, transactions, and data consistency.

Hosting and Deployment:

- **AWS ECS:** Hosting both frontend and backend applications with automatic scaling based on demand.

Event-Driven Architecture:

- **AWS CloudTrail, EventBridge, and Lambda:** Automates user onboarding, processes events, and keeps data consistent across components.

Infrastructure as Code (IaC):

- **Pulumi:** Efficient, repeatable, and maintainable infrastructure provisioning written in TypeScript for seamless integration with application code.

GitHub Repositories

- [Frontend Repository](#)- Complete React-based frontend code.
- [Backend Repository](#)- Node.js backend code with REST APIs and JWT authentication.
- [Infrastructure Repository](#)- Pulumi scripts for provisioning infrastructure.