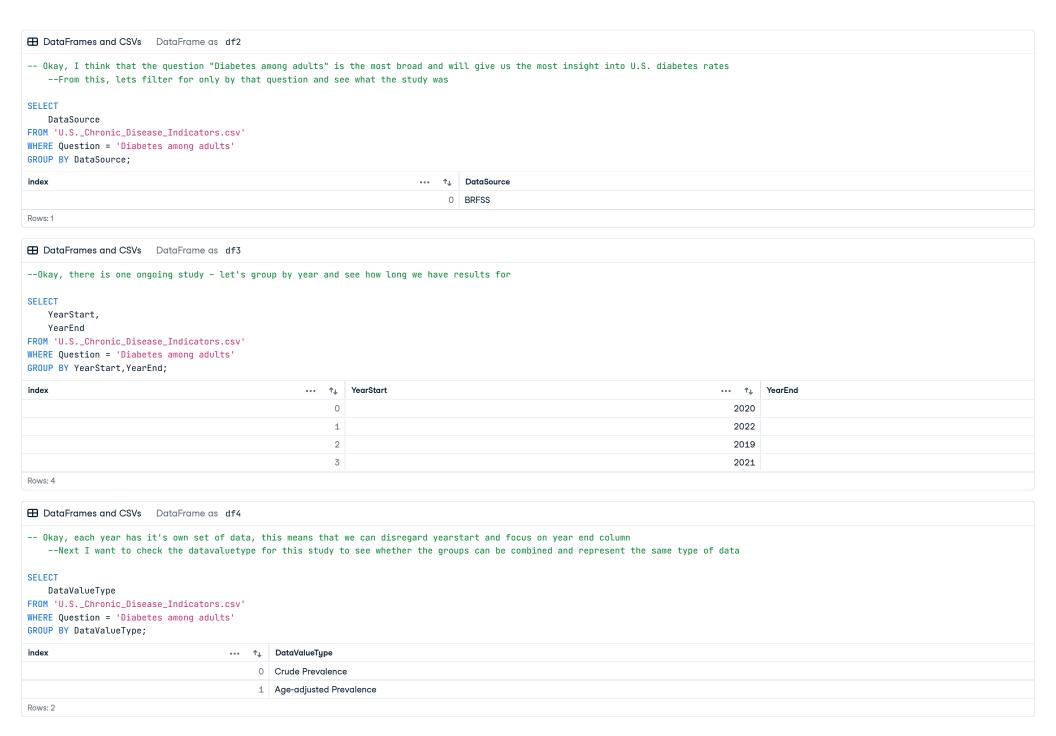


■ DataFrames and CSVs DataFrame as df1 -- Isolate out diabetes studies SELECT \* FROM 'U.S.\_Chronic\_Disease\_Indicators.csv' WHERE topic = 'Diabetes'; ... ↑ Y. ... ↑ D... ↑↓ DataValueUnit · · · ↑↓ ••• ↑↓ Loca... ••• ↑↓ LocationDesc ••• ↑↓ ••• ↑↓ Question ... ↑↓ DataValueType ••• ↑↓ 0 2019 2019 AR **BRFSS Diabetes** Diabetes among adults % Crude Prevalence Arkansas null 2019 ID Idaho **BRFSS Diabetes** Diabetes among adults % Crude Prevalence 1 2019 null 2 2019 2019 IA lowa NVSS **Diabetes** Diabetes mortality among all people, underly... Number Number 3 2019 2019 KS Kansas NVSS **Diabetes** Diabetes mortality among all people, underly... Number Number 4 2019 2019 NE Nebraska **BRFSS Diabetes** Diabetes amona adults % Crude Prevalence 5 2019 2019 NE Nebraska **NVSS** Diabetes mortality among all people, underly... Number Number **Diabetes** null 6 2019 2019 NJ New Jerseu **BRFSS Diabetes** Diabetes among adults null % Crude Prevalence 7 2019 2019 NC North Carolina **NVSS Diabetes** Diabetes mortality among all people, underly... null Number Number 8 2019 2019 OK Oklahoma **BRFSS** Diabetes Diabetes among adults % Crude Prevalence null 9 2019 2019 Rhode Island **BRFSS Diabetes** Diabetes among adults % Crude Prevalence null 10 2019 2019 US **United States NVSS** Diabetes Diabetes mortality among all people, underly... Number Number null **BRFSS** 11 2019 2019 VI Virgin Islands **Diabetes** Diabetes among adults null % Crude Prevalence 12 2020 2020 Rhode Island **BRFSS** Diabetes Diabetes among adults null % Crude Prevalence 13 2020 2020 VT Vermont **NVSS Diabetes** Diabetes mortality among all people, underly... Number Number null 14 2020 2020 WV West Virginia **BRFSS Diabetes** Diabetes among adults null % Crude Prevalence AL **BRFSS** % Age-adjusted Prevalence 15 2021 2021 Alabama **Diabetes** Diabetes among adults null 2024 2021 Indiana DDEce Diabotos Diabetes among adults Crudo Drovalanco Rows: 2,941 A truncated from 17,318 rows DataFrames and CSVs DataFrame as df -- Let's see what questions study participants were asked about their diabetes **SELECT** DISTINCT(Question) FROM 'U.S.\_Chronic\_Disease\_Indicators.csv' WHERE topic = 'Diabetes'; ··· ↑↓ Question index O Diabetes mortality among all people, underlying or contributing cause 1 Gestational diabetes among women with a recent live birth 2 Diabetes among adults 3 Diabetic ketoacidosis mortality among all people, underlying or contributing cause Rows: 4



```
    ■ DataFrames and CSVs DataFrame as df6

-- I want to check if dataalt and datavvalues vary for the group I want to investigate
SELECT *
FROM 'U.S._Chronic_Disease_Indicators.csv'
WHERE DataValue != DataValueAlt AND Question = 'Diabetes among adults';
Your guery ran successfully but returned no results.
■ DataFrames and CSVs DataFrame as df7
--Okay, I don't want to include any adjusted values and only want to focus on crude numbers
    -- I also noticed there are stratifications for the reports so let's see what those are and how to further group the data
SELECT
    DISTINCT StratificationCategory1,
    StratificationCategory2,
    StratificationCategory3
FROM 'U.S._Chronic_Disease_Indicators.csv'
WHERE Question = 'Diabetes among adults' AND DataValueType LIKE 'Crude%';
 ... ↑ StratificationCategory1 ... ↑ StratificationCategory2 ... ↑ StratificationCategory3 ... ↑
      0 Sex
                                                                     null
                                       null
      1 Race/Ethnicity
                                       null
                                                                     null
      2 Age
                                       null
                                                                     null
      3 Overall
                                       null
                                                                     null
Rows: 4
```

```
    ■ DataFrames and CSVs DataFrame as df5

-- We want overall data so we will select only those values
    --Now I want to select responses with non-null values and group by state and year and rank to see the best and worst over time
SELECT
    RANK() OVER (PARTITION BY YearEnd ORDER BY ROUND(AVG(DataValue),2) DESC) AS rank_within_year,
    YearEnd AS study_year,
    LocationDesc,
    LocationAbbr,
    ROUND(AVG(DataValue),2) AS avg_percent_diabetes
FROM 'U.S._Chronic_Disease_Indicators.csv'
WHERE Question = 'Diabetes among adults' AND DataValueType
        LIKE 'Crude%' AND StratificationCategory1 = 'Overall' AND DataValue IS NOT NULL
        AND LocationDesc NOT LIKE 'Uni%'
GROUP BY LocationDesc, YearEnd, LocationAbbr
ORDER BY YearEnd DESC, rank_within_year;
  \cdots \uparrow_{\downarrow} rank_within... \cdots \uparrow_{\downarrow} s... \cdots \uparrow_{\downarrow} LocationDesc
                                                              ··· ↑ Loca... ··· ↑ avg_percent_diab... ··· ↑
      0
                           1
                                     2022 Guam
                                                                       GU
                                                                                                            21.6
      1
                           2
                                     2022 Puerto Rico
                                                                       PR
                                                                                                            17.7
      2
                                                                       WV
                           3
                                     2022 West Virginia
                                                                                                            17.4
      3
                           4
                                     2022 Virgin Islands
                                                                       VI
                                                                                                            15.9
      4
                           5
                                     2022 Arkansas
                                                                       AR
                                                                                                            15.7
      5
                           6
                                     2022 Alabama
                                                                       AL
                                                                                                            15.5
      6
                           7
                                     2022 Mississippi
                                                                       MS
                                                                                                            15.3
      7
                           8
                                     2022 Kentucky
                                                                       ΚY
                                                                                                            14.8
      8
                           8
                                                                       TN
                                     2022 Tennessee
                                                                                                            14.8
      9
                          10
                                     2022 Louisiana
                                                                       LA
                                                                                                            14.7
     10
                          11
                                     2022 Texas
                                                                       TX
                                                                                                            13.9
     11
                          11
                                     2022 Delaware
                                                                       DE
                                                                                                            13.9
     12
                          13
                                     2022 Oklahoma
                                                                       OK
                                                                                                            13.3
     13
                          14
                                     2022 Ohio
                                                                       ОН
                                                                                                            13.1
                                                                       SC
     14
                          15
                                     2022 South Carolina
                                                                                                            12.9
     15
                          16
                                     2022 Virginia
                                                                       VA
                                                                                                            12.8
```

107

16

Rows: 212

17

2022 Indiana

INI