Transition to Microdata Access

Oregon Data Users Meeting
September 23, 2020

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Center for Enterprise Dissemination (CED)

U.S. Census Bureau

Microdata Access (MDAT)

- Microdata Access at data.census.gov/mdat (internally known as MDAT) replaced DataFerrett in 2019
  - ❖ Tool that helps you to create tabulations using Census public use microdata without programming or statistical software
  - ❖ DataFerrett was decommissioned June 30th
- Phase 1 of development has finished. Continue to work on data migration
- Currently planning Phase 2: Integration with data.census.gov
  - Search
  - Code Base

Microdata = PUMS Files

Public Use Microdata

Anonymized

- No personally identifiable information
- Edits to protect confidentiality

Accessible

- data.census.gov/mdat
- Application Programming Interface (API)
- Download through FTP sites

Individual Responses

- Must be tabulated and weighted by user

Tabulated Data vs. Microdata: What's the Difference?

	Louisiana	
	Estimate	Margin of Error
Total:	2,020,951	+/-14,211
Male:	1,029,736	+/-9,995
Management, business, science, and arts occupations:	289,129	+/-6,989
Management, business, and financial occupations:	126,805	+/-5,330
Management occupations:	99,359	+/-4,708
Business and financial operations occupations:	27,446	+/-2,465
Computer, engineering, and science occupations:	57,290	+/-4,110
Computer and mathematical occupations:	18,459	+/-2,169
Architecture and engineering occupations:	30,797	+/-3,039

Aggregated tables for a geography:
"In 2016 in Louisiana, approximately 18,459 males worked in computer and mathematical occupations."

RT	SERIALNO	SPORDER	ST	SEX	OCCP
P	267855	2	22	1	6600
P	267870	1	22	2	1020
P	267870	2	22	1	1030
P	267913	1	22	2	430
P	267913	2	22	1	9620
P	268097	1	22	2	4110
P	268097	2	22	1	6260

Microdata (a set of edited survey responses):
"This male in Louisiana is a web developer."

Available Geographies

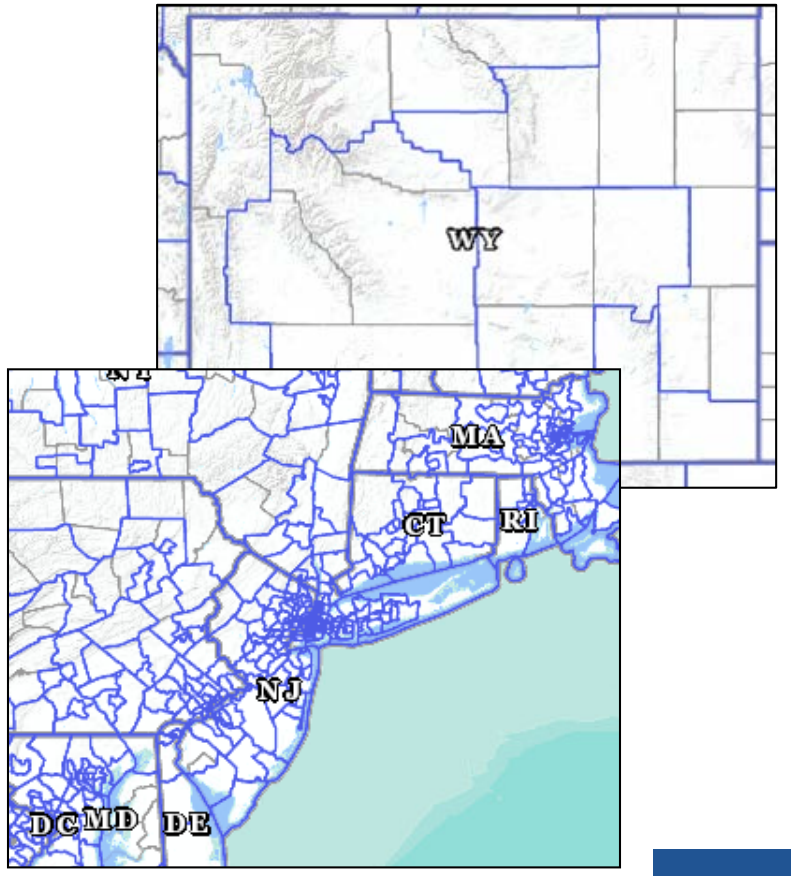
ACS Available Geographies
Nation
Region
Division
State
Public Use Microdata Area (PUMA)

CPS Available Geographies
Nation
State
County (available only for the basic CPS)

Public Use Microdata Areas (PUMA)

Defined area with 100,000+ population

- PUMAs (or collections of PUMAS) can be used to identify most cities of 100,000+ and many metro areas, but not all
- Identified by five-digit code (unique within each state)
- Nest within states and cover the entire nation
- Defined after each decennial census
- Census tracts and counties are the building blocks



Selecting PUMAs in Microdata Access:

- MDAT geography dropdown
- Visualized through TIGERweb: tigerweb.geo.

Microdata Access Basics

- Only use this tool to create tabulations if a pre-tabulated Census table is **NOT** available.
- Only available for **large geographies** like states and sometimes PUMAs (about 100,000 people)
- Creates tables on the **variable level** so a program or survey data dictionary is handy to know those definitions
    - Most questions we receive are survey/variable questions

Demo

Example 1:

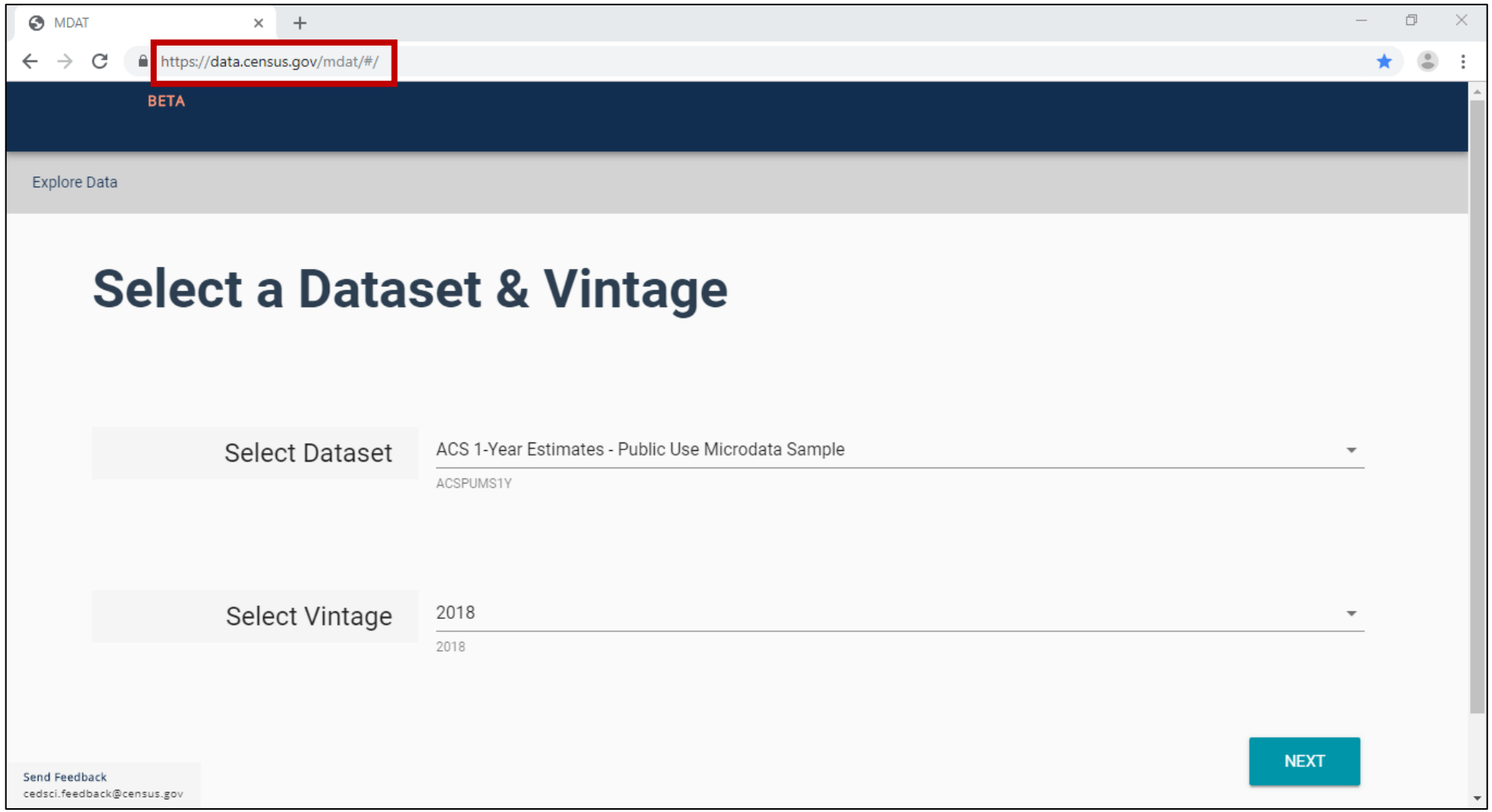
Female Hispanic population 50 and over in Oregon

Table B01001I – Sex by Age (Hispanic or Latino)

	Oregon	
Label	Estimate	Margin of Error
35 to 44 years	40,808	±1,982
45 to 54 years	33,215	±2,006
55 to 64 years	16,310	±1,035
65 to 74 years	7,731	±1,199
75 to 84 years	4,313	±1,120
85 years and over	1,120	±624
Female:	269,654	±1,926
Under 5 years	26,031	±1,133
5 to 9 years	25,504	±2,665
10 to 14 years	26,484	±2,833
15 to 17 years	17,376	±1,291
18 and 19 years	11,296	±1,840
20 to 24 years	23,092	±2,039
25 to 29 years	22,125	±1,304
30 to 34 years	19,431	±1,482
35 to 44 years	40,671	±1,828
45 to 54 years	27,488	±1,730
55 to 64 years	16,864	±887
65 to 74 years	7,823	±1,100
75 to 84 years	4,267	±1,091

Tabulated ACS tables in data.census.gov do not provide data for the Hispanic population aged 50 years or older, but we can create a custom table for this using Microdata Access.

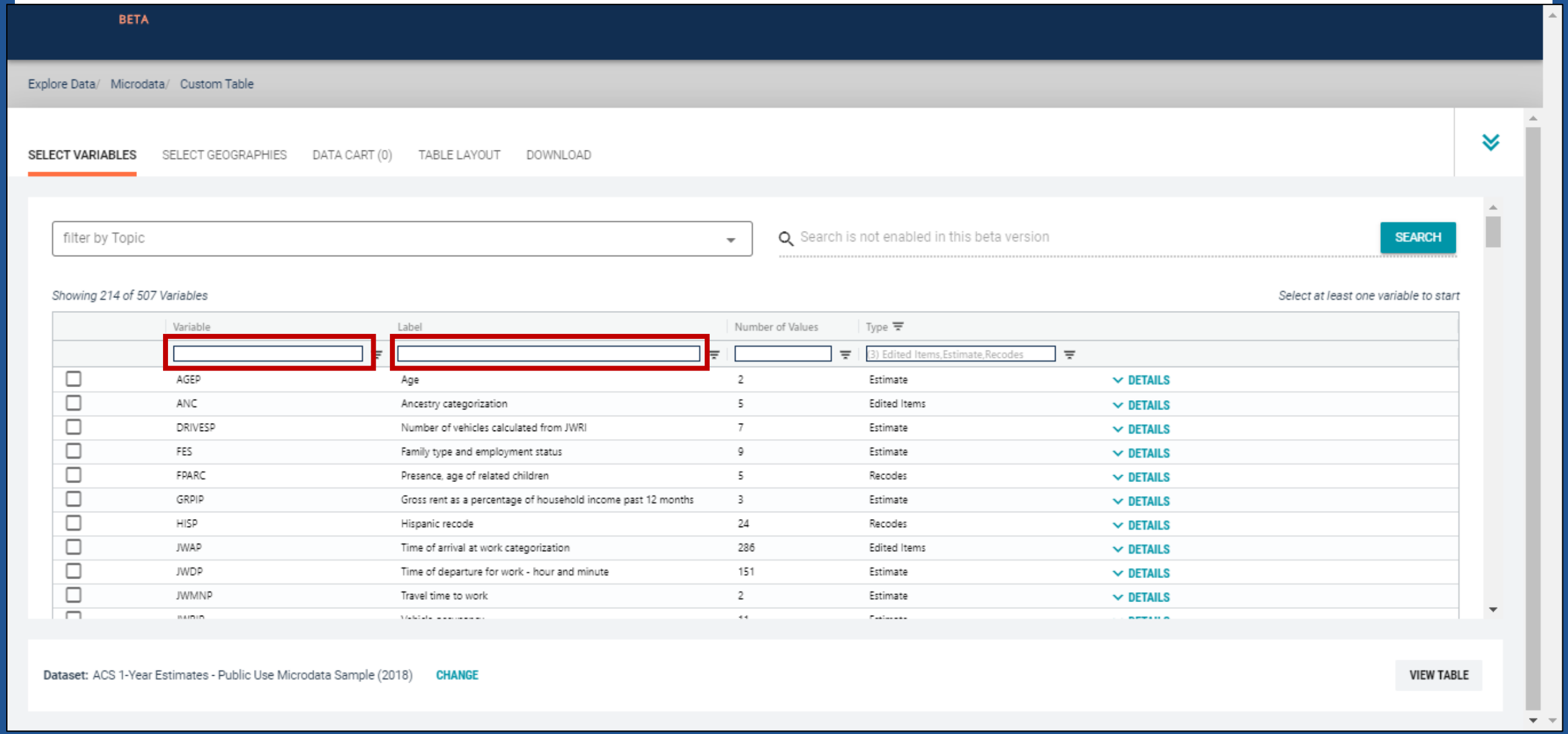
Visit Microdata Access at data.census.gov/mdat



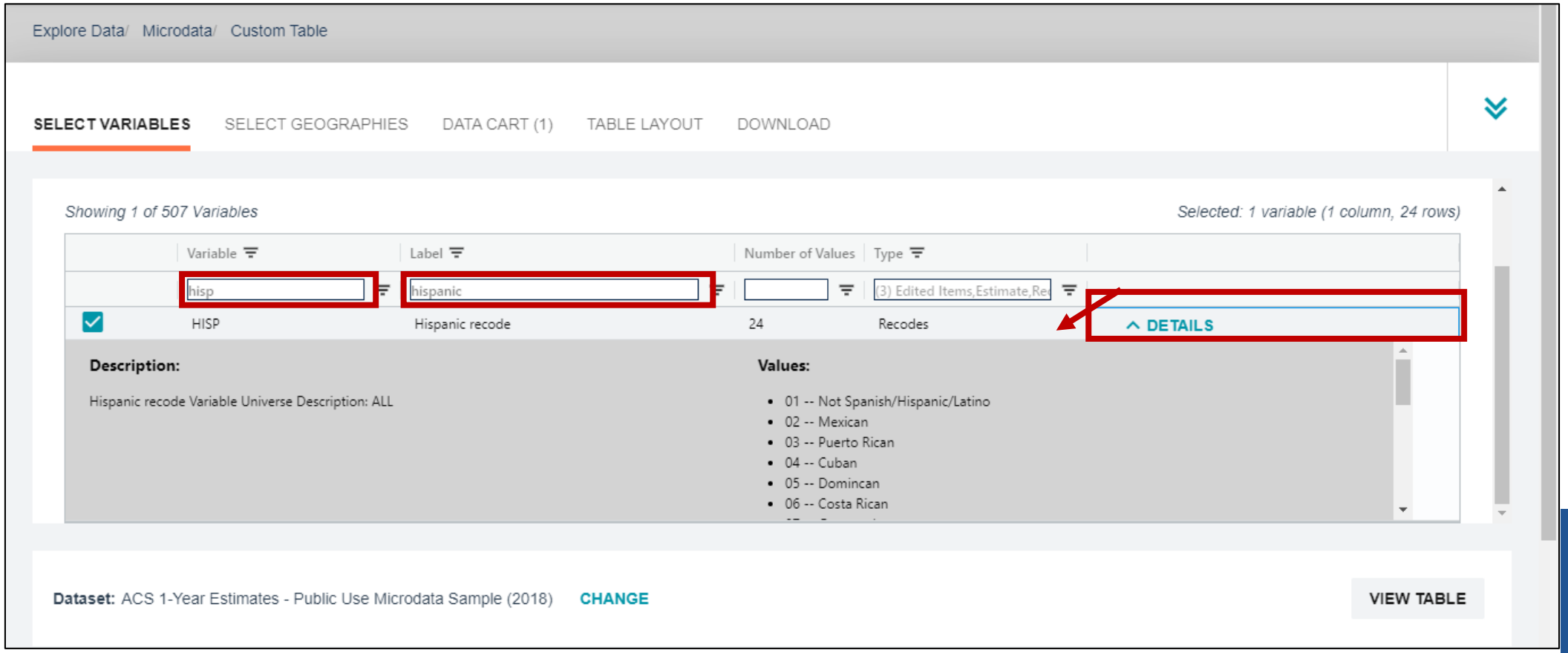
data.census.gov/mdat

- **Choose Dataset and Vintage**:
  - Dataset – **ACS 1-Year Estimates – Public Use Microdata Sample**
  - Vintage – **2018**
  - Click **Next** in the lower right

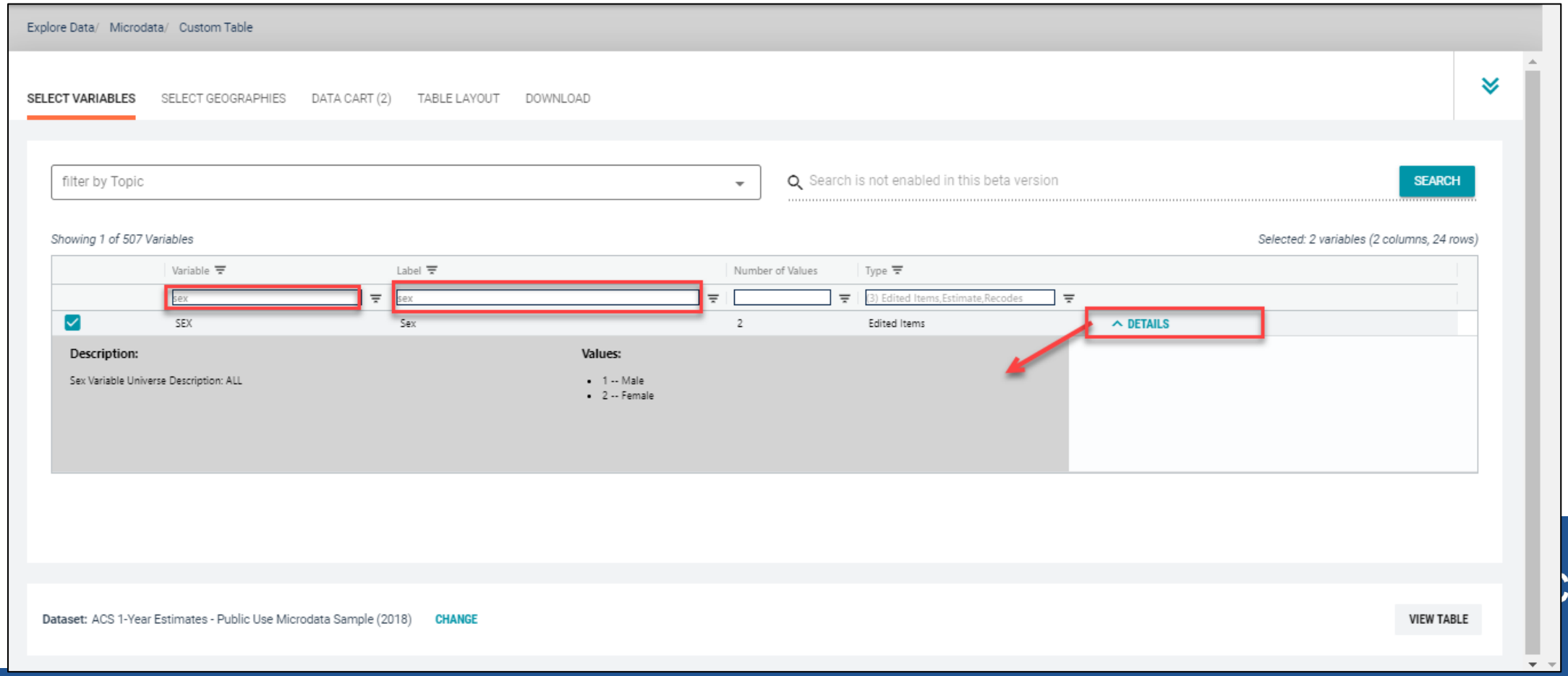
- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest



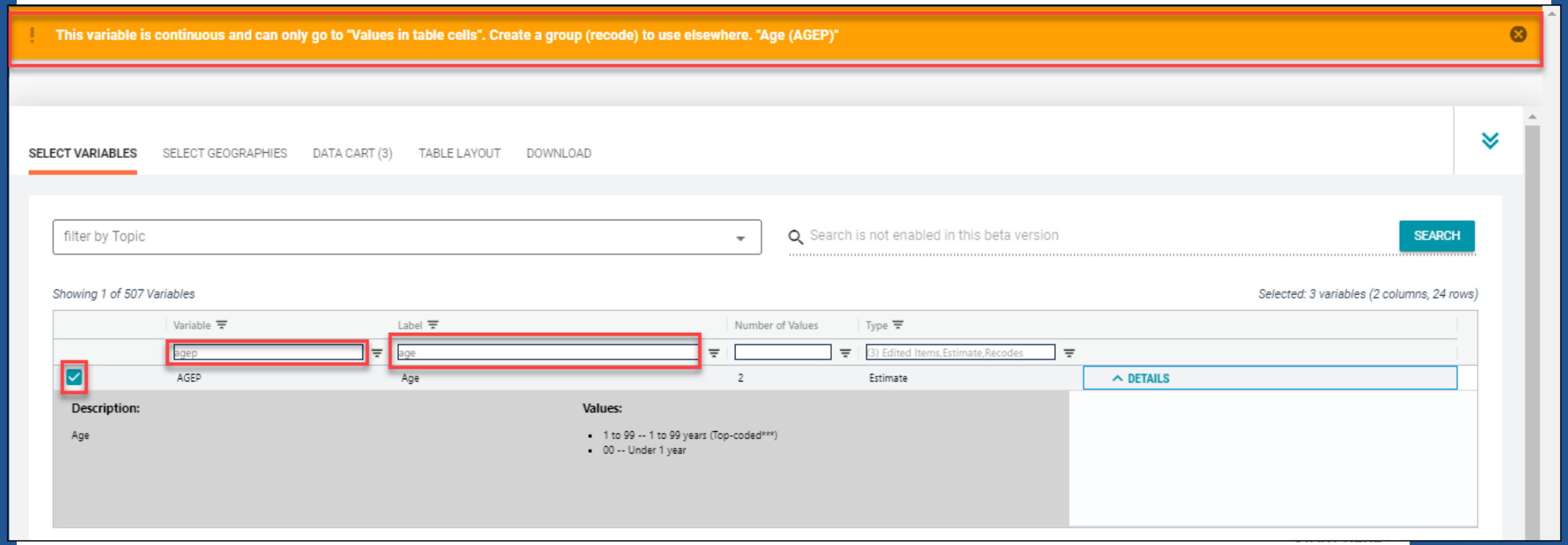
- **Select variable for Hispanic**:
  - Type “HISP” in the Variable search box or type “Hispanic” in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of HISP to add the variable to your data cart



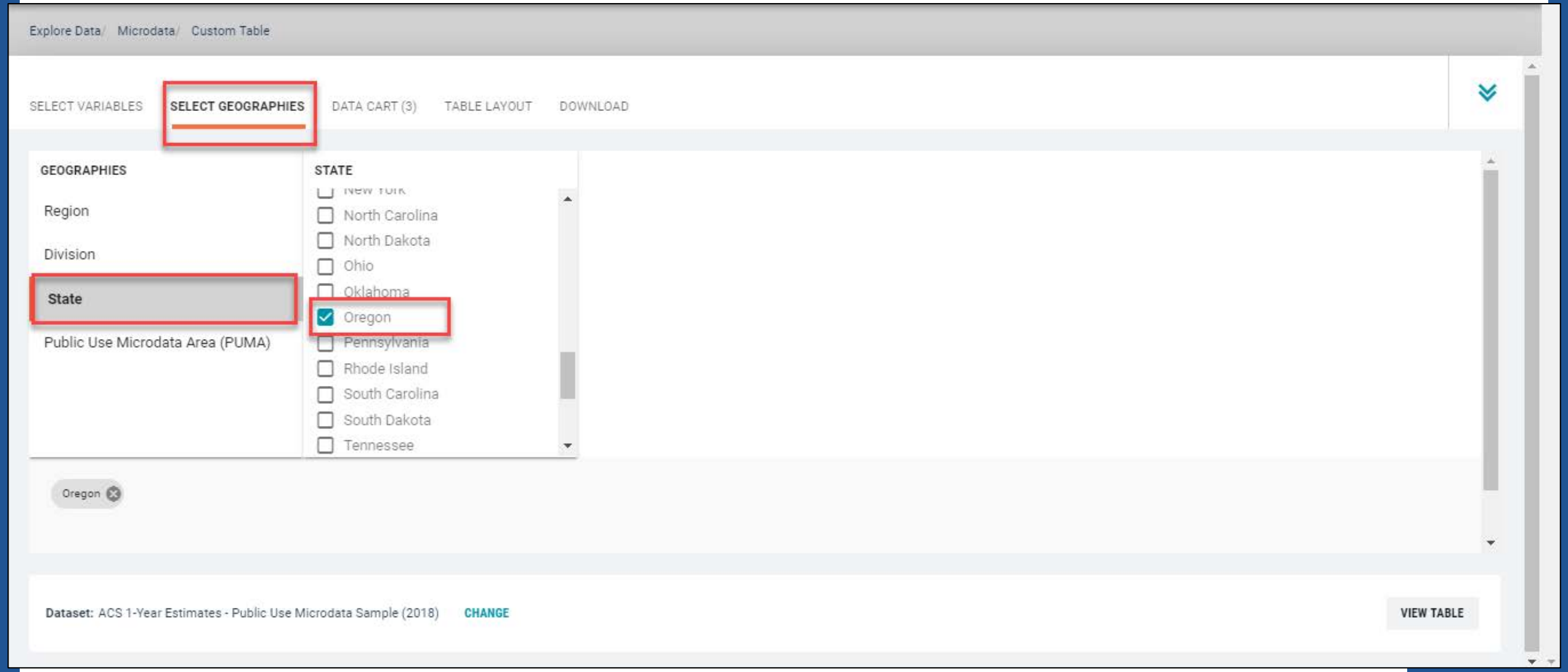
- **Select variable for Sex**:
  - Type “SEX” in the Variable search box or type “Sex” in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of Sex to add the variable to your data cart



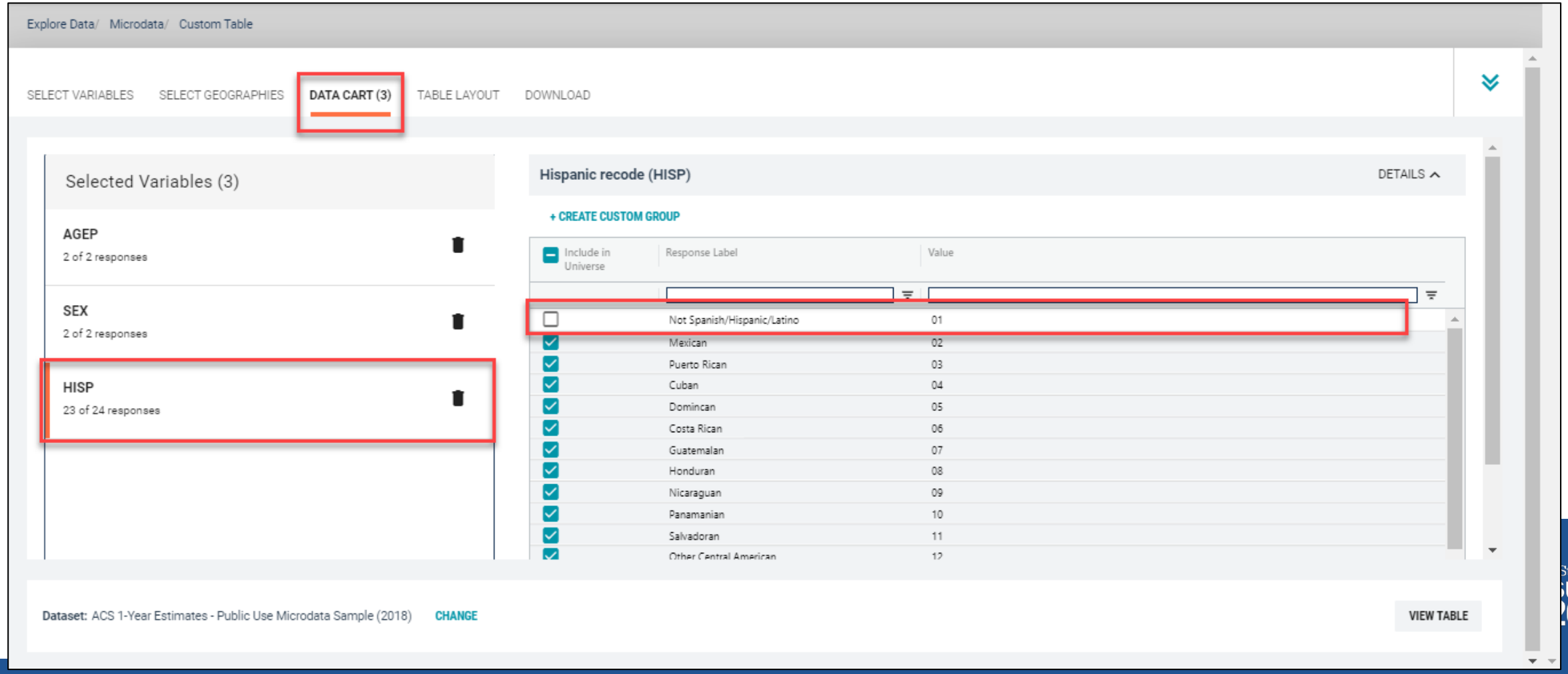
- **Select variable for Age**:
  - Type “AGEP” in the Variable search box or type “Age” in the label search box
  - Check the box to the left of AGEP to add the variable to your data cart
  - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (you will do this action in the Data Cart)



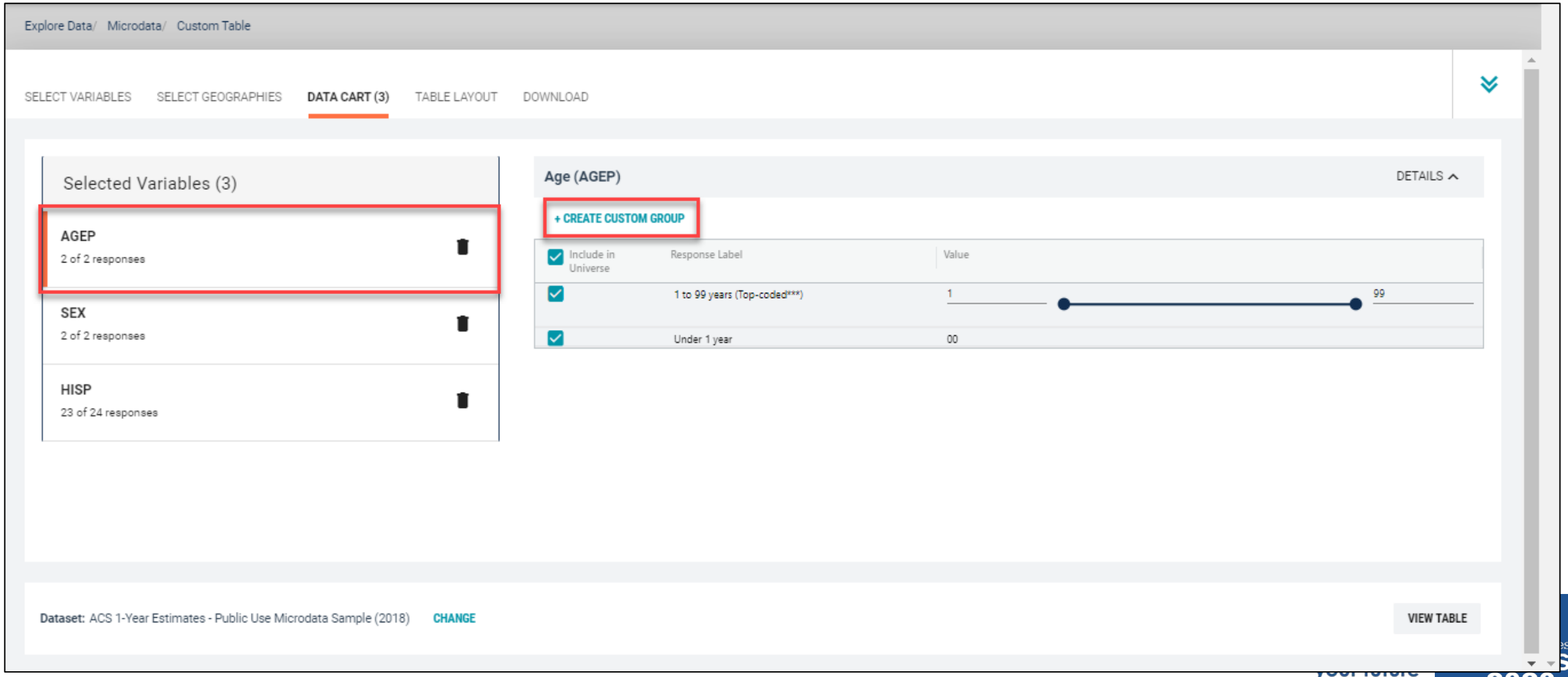
- **Select geography**:
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **State** and check the box for **Oregon**



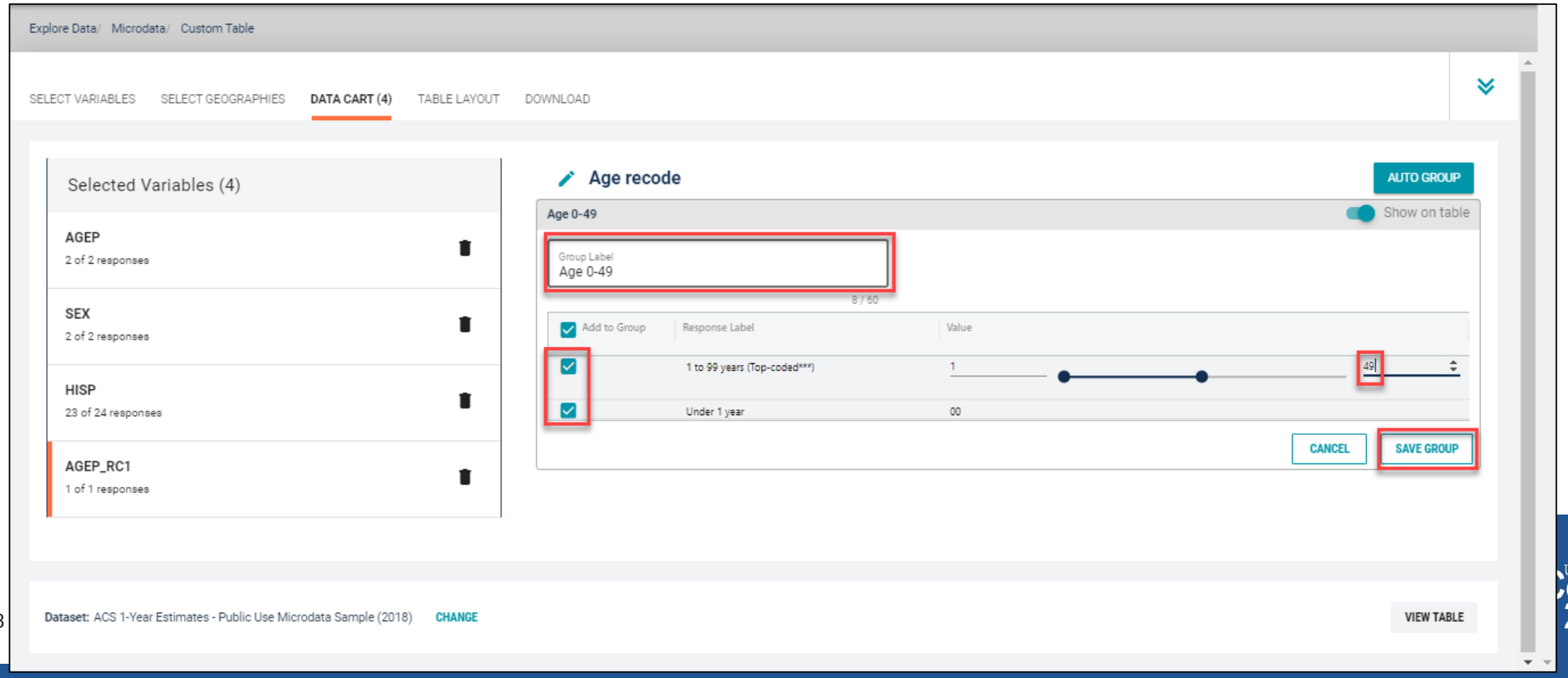
- **Limit your universe**:
  - Click the **Data Cart** tab
  - Click the **HISP** variable on the left
  - Uncheck the box for **Not Spanish/Hispanic/Latino** (This action allows you to limit the universe to Hispanics)



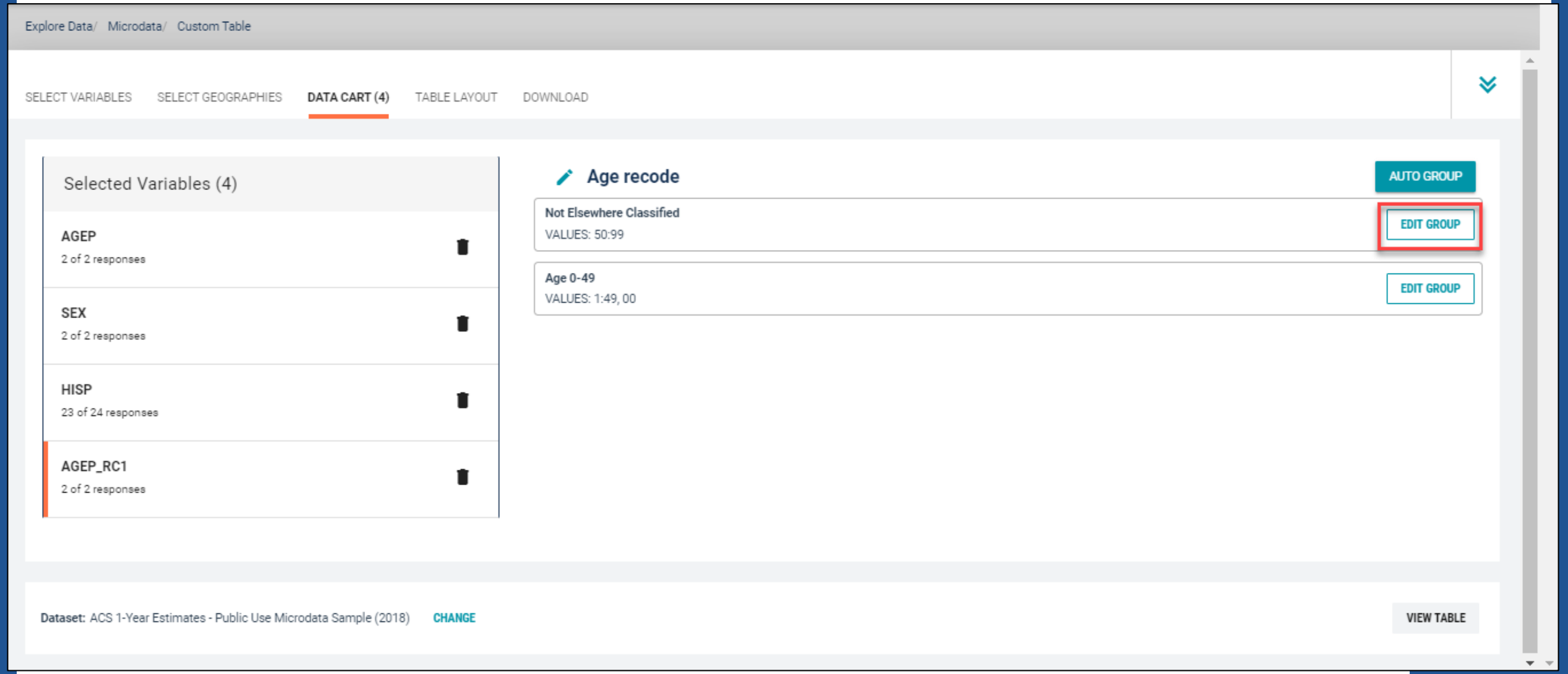
- **Categorize (recode) your variable**:
  - Click the **AGEP** variable on the left
  - Click **Create Custom Group** to begin specifying your age categories (e.g. 0-49; 50 and over)



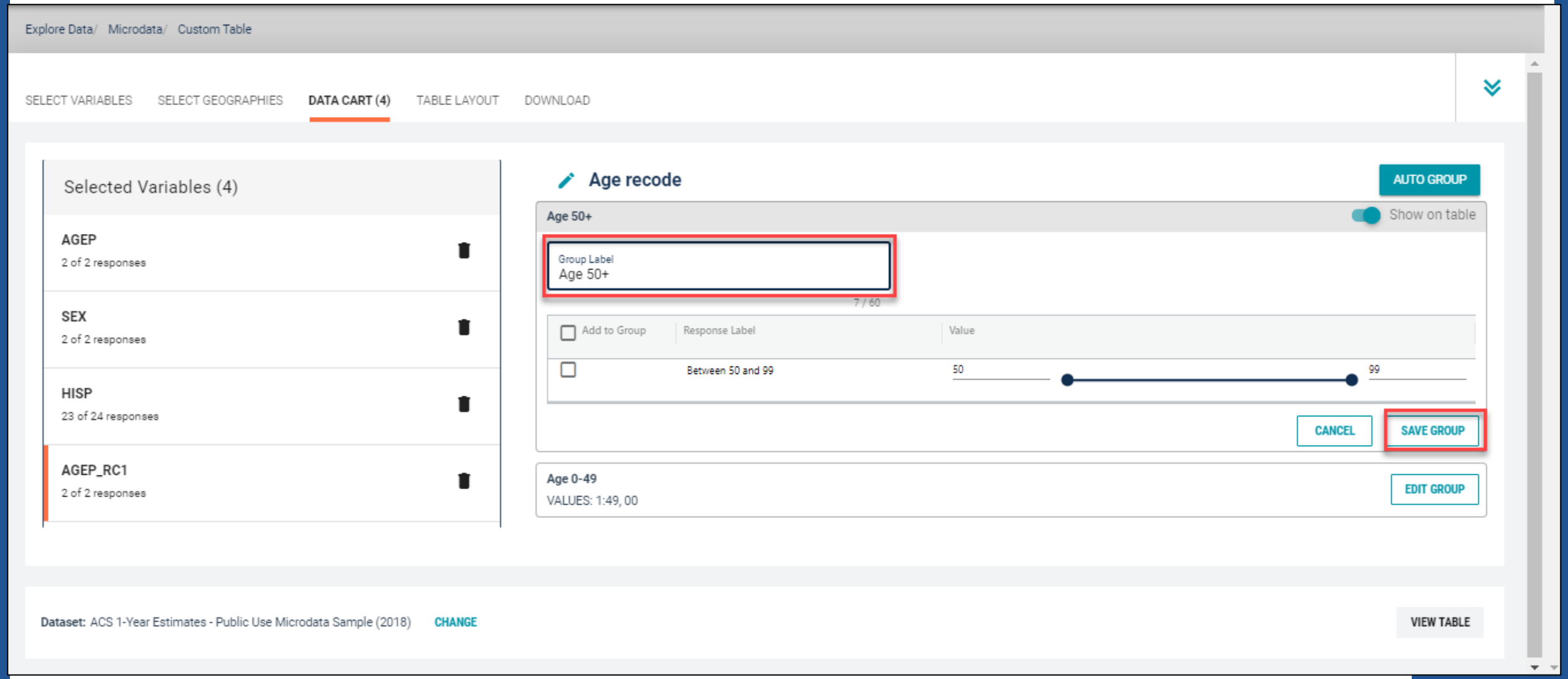
- Categorize (recode) your variable:
  - Click into **Group label** and type a label for the first category you want to create (e.g. 0-49)
  - Check the box next to both relevant response categories for this code (1 to 99 years and under 1 year)
  - Edit the end range of age from 99 to **49**
  - Click **Save Group**



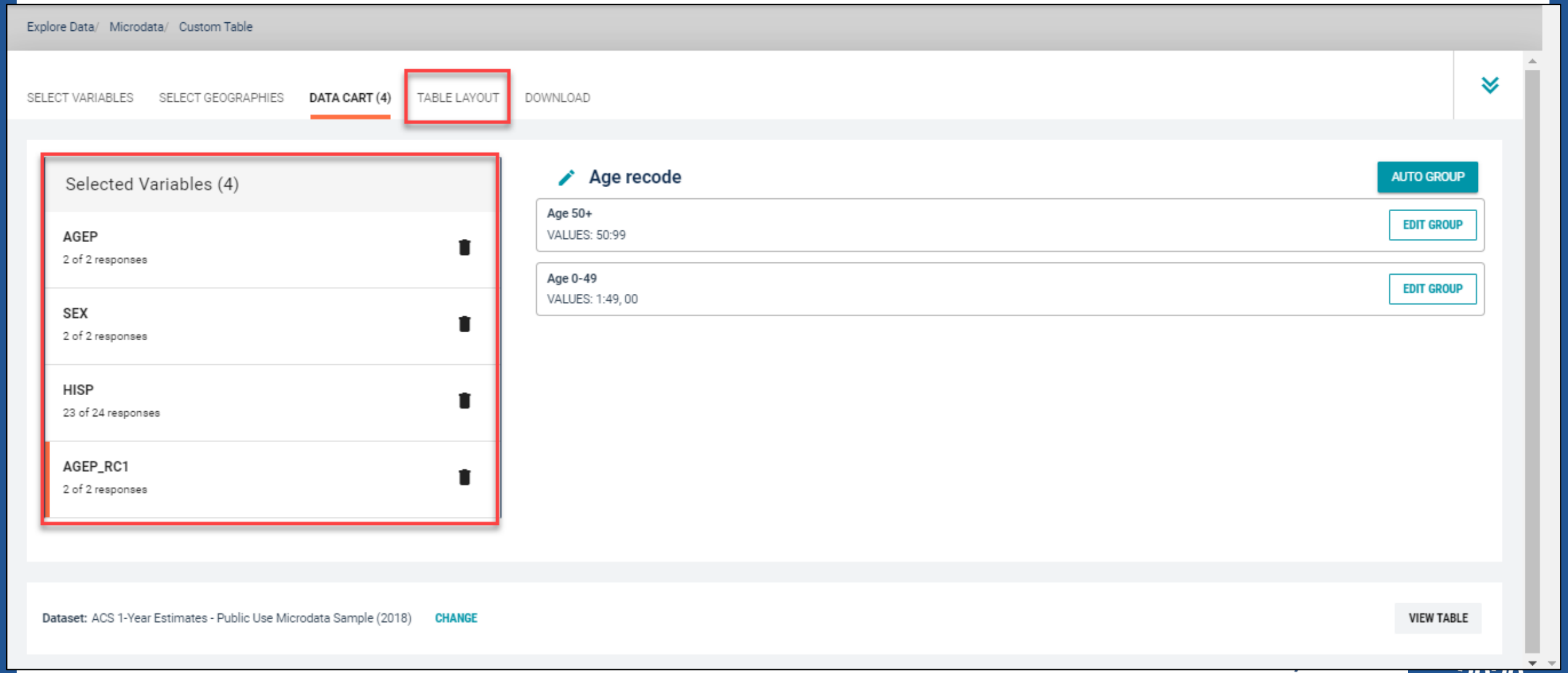
- Categorize (recode) your variable:
  - Your first category Age 0-49 appears just below “Not Elsewhere Classified”
  - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category



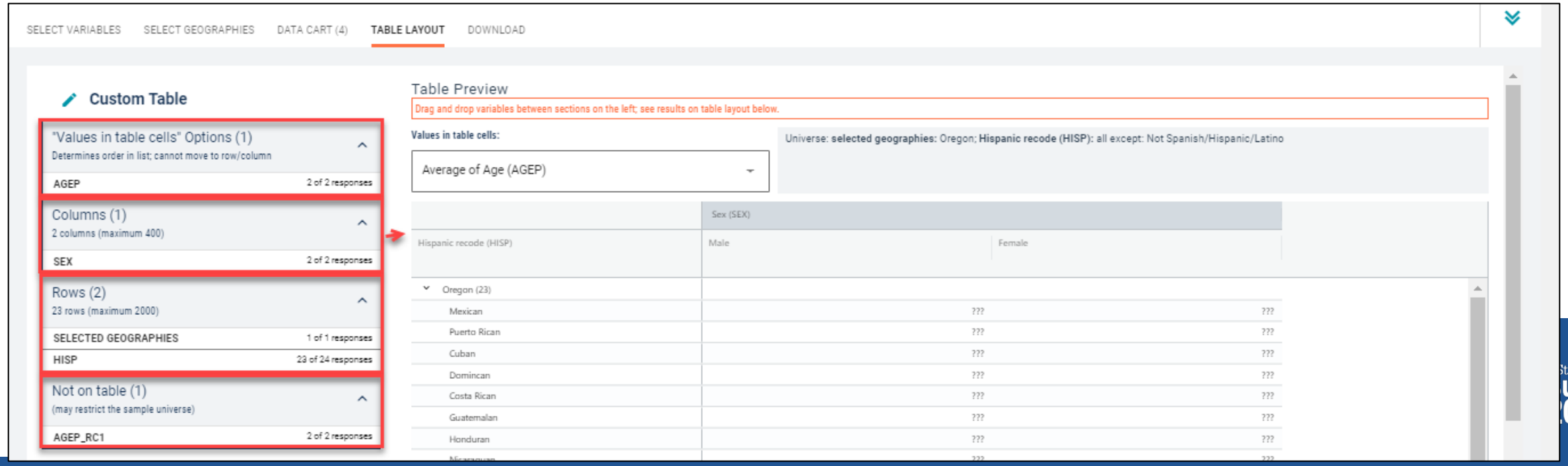
- Categorize (recode) your variable:
  - Click into **Group Label** and rename the category (e.g. Age 50+)
  - Click **Save Group** in the lower right



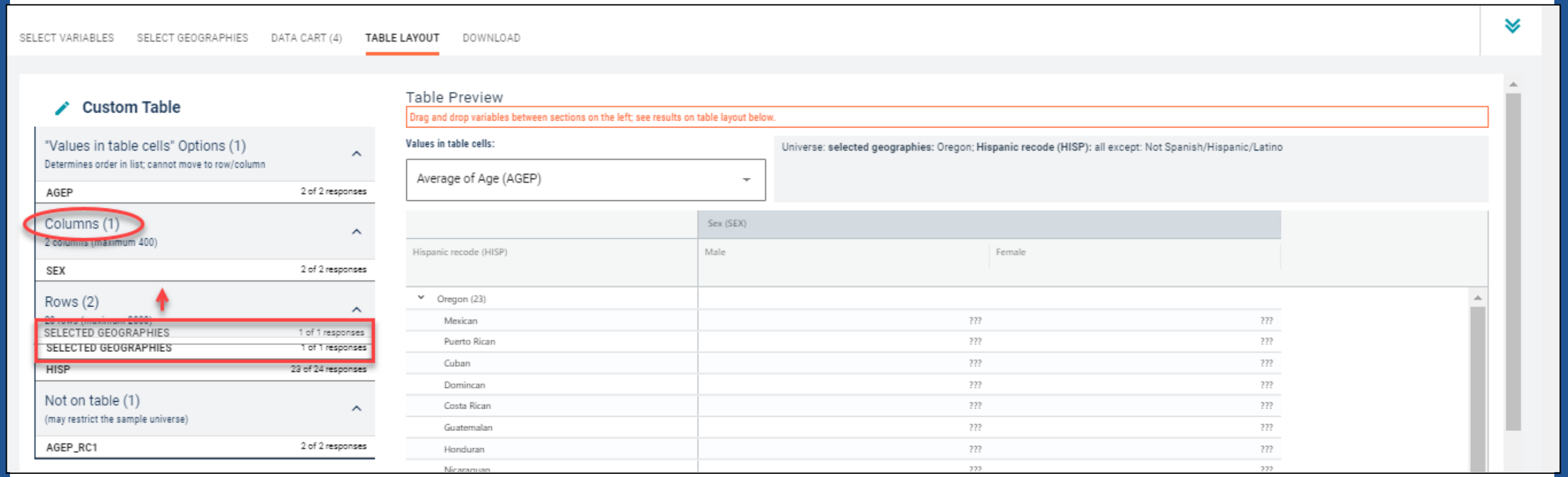
- Confirm variable selections
  - Confirm variable selections and click the **Table Layout** tab



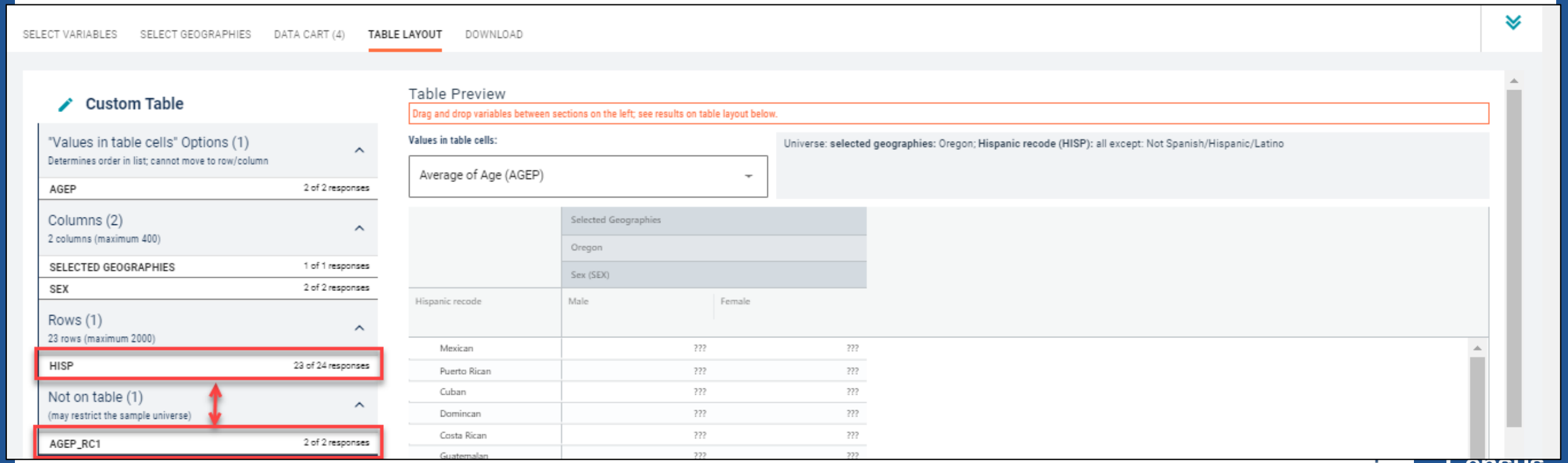
- View variable placement in the default table layout:
  - **Values in table cells Options –** When variables are shown here, you have more options to choose from in the drop down menu for “Values in table cells”
  - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing data by geography (Oregon) for each detailed Hispanic group (Mexican, Puerto Rican, etc.) in the rows. Sex is provided in the column.
  - **Not on Table – Can restrict the universe.** By default, AGEP_RC1 is not on the table, and it does not restrict the universe because the recode includes ages for all people (0-49 and 50+)



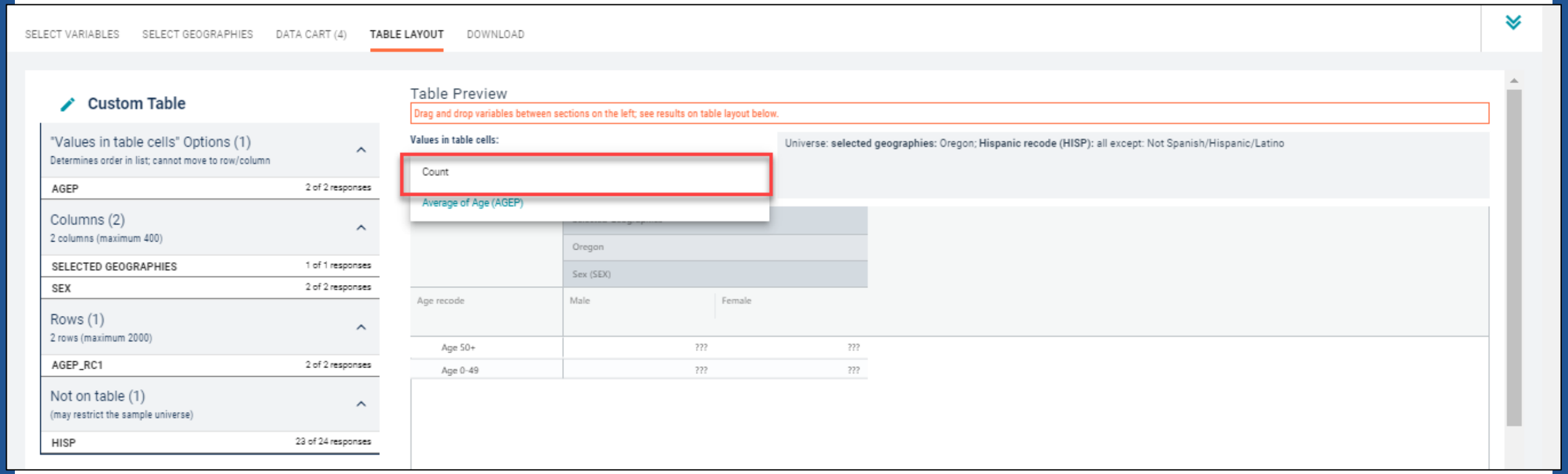
- Edit Table Layout:
  - **Move Selected Geography to Columns:**
    - **Click, hold and drag Selected Geographies on the left side of the page up to the columns heading.** This will give you a table layout similar to prefabricated ACS tables on data.census.gov, where each geography has its own column



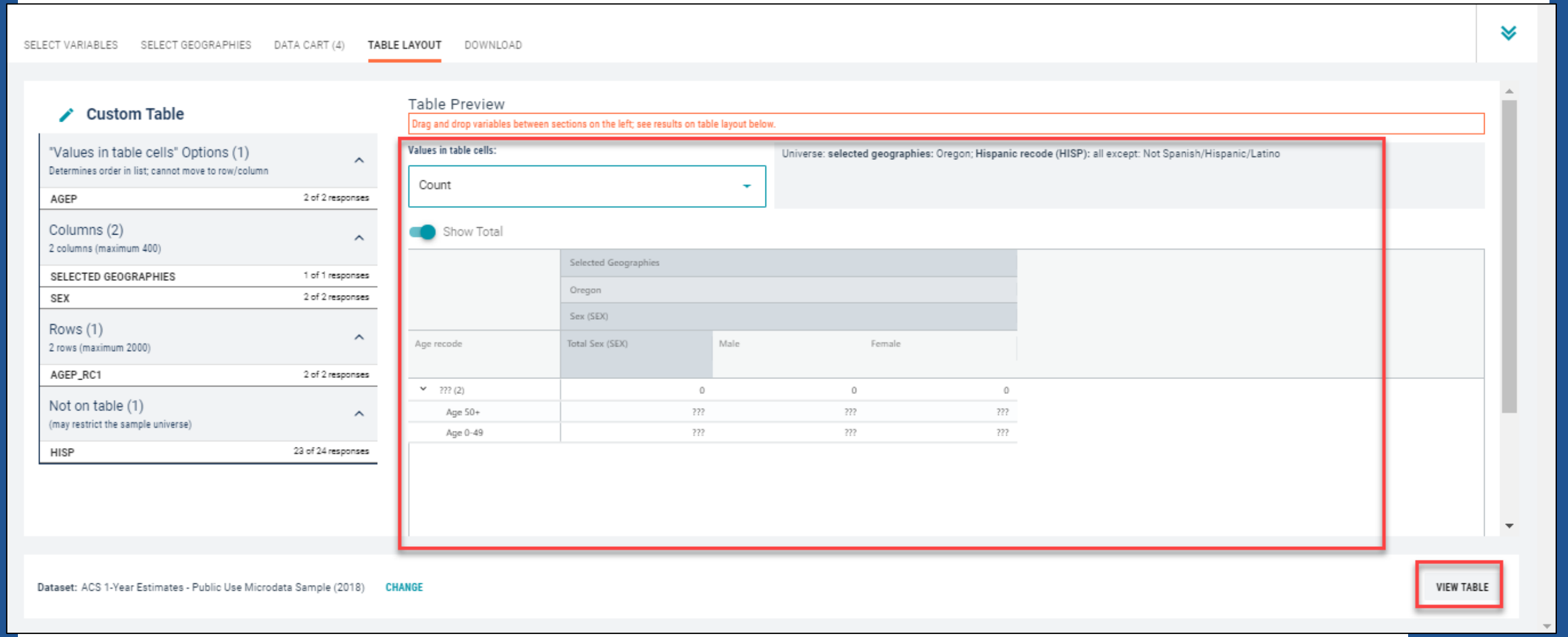
- Edit Table Layout:
  - **Move AGEP_RC1 to Rows:** This will add categories in our table row for the population 0-49 and 50+
  - **Move HISP to Not on Table:** This will limit our universe to the Hispanic population (since we unchecked the box in the data cart for value 01 – Not Hispanic or Latino). Putting this in "Not in table" restricts our universe without providing detailed breakouts for each Hispanic category (Mexican, Puerto Rican, etc).



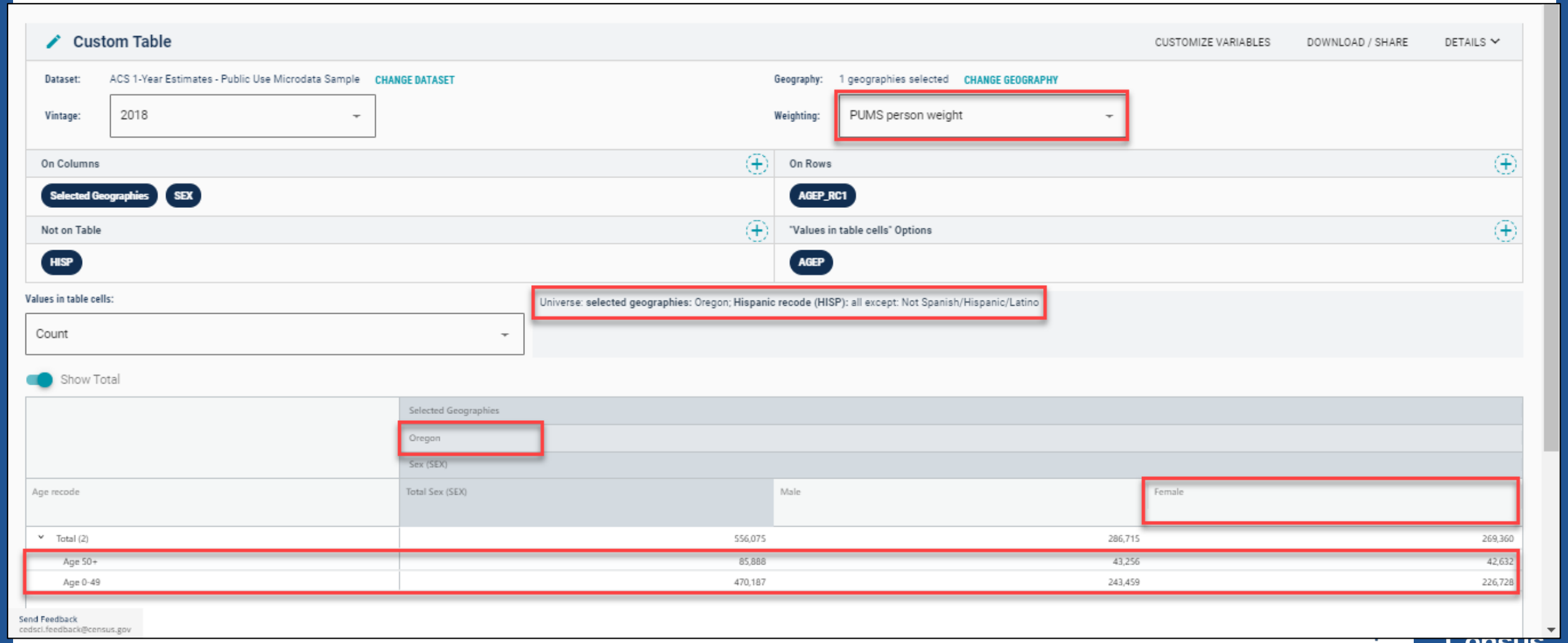
- Choose type of values in table cells
  - Change the “Value in table cells” option from Average of Age (AGEP) to **Count.** This will give you data for the total number of female Hispanics age 0-49 and 50+ in Oregon



- Confirm Table Layout:
  - Confirm table layout and click **View Table** in the lower right



- View Table:
  - There were an estimated 42,632 female Hispanic people age 50 and older in Oregon in 2018
  - There were an estimated 226,728 female Hispanic people age between 0 and 49 in OR in 2018



Demo

Example 2:

Work from Home by Detailed Industry in Oregon

Table B08126 – Worked at Home by Industry

MEANS OF TRANSPORTATION TO WORK BY INDUSTRY

Survey/Program: American Community Survey
TableID: B08126

Product: 2018: ACS 1-Year Estimates Detailed Tables
Universe: Workers 16 years and over

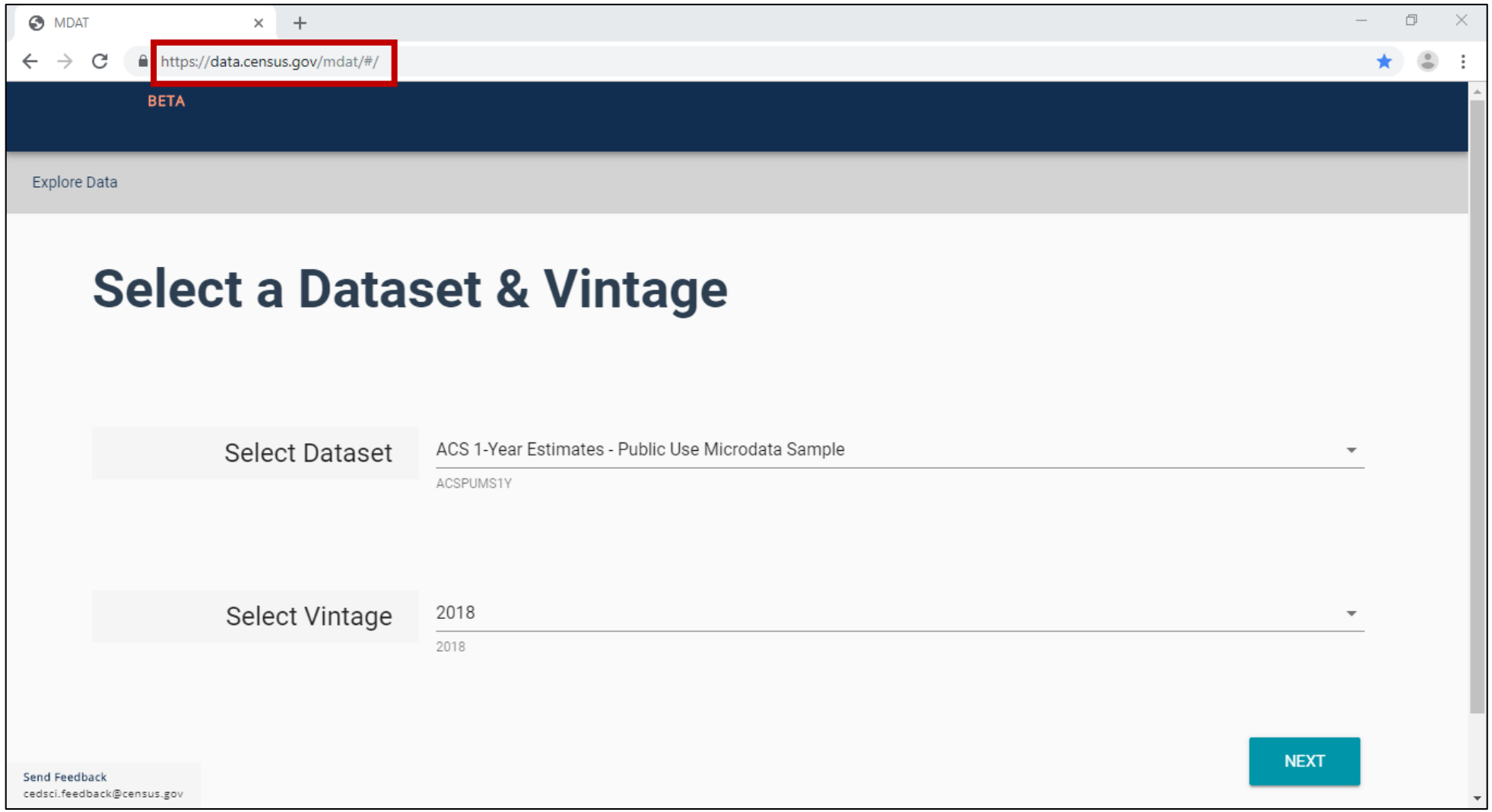
CUSTOMIZE TABLE

Label	Oregon	
	Estimate	Margin of Error
Wholesale trade	1,536	±656
Retail trade	8,100	±1,583
Transportation and warehousing, and utilities	3,279	±930
Information	691	±365
Finance and insurance, and real estate and rental and leasing	2,044	±814
Professional, scientific, and management, and administrative and waste management services	9,801	±1,643
Educational services, and health care and social assistance	13,355	±1,910
Arts, entertainment, and recreation, and accommodation and food services	7,742	±2,111
Other services (except public administration)	1,942	±768
Public administration	2,666	±747
Armed forces	7	±22
Worked at home:	148,880	±7,803
Agriculture, forestry, fishing and hunting, and mining	5,672	±1,432
Construction	6,191	±1,685
Manufacturing	10,020	±1,520
Wholesale trade	4,656	±1,307
Retail trade	11,479	±1,818
Transportation and warehousing, and utilities	3,832	±1,121
Information	4,655	±1,191
Finance and insurance, and real estate and rental and leasing	14,217	±1,873
Professional, scientific, and management, and administrative and waste management services	39,031	±3,488
Educational services, and health care and social assistance	25,202	±2,613

Columns | Cell/Column Notes

Annually released prefabricated ACS tables provide data about individuals who worked from home for 14 industries, but what if we want this data for more detailed industries?

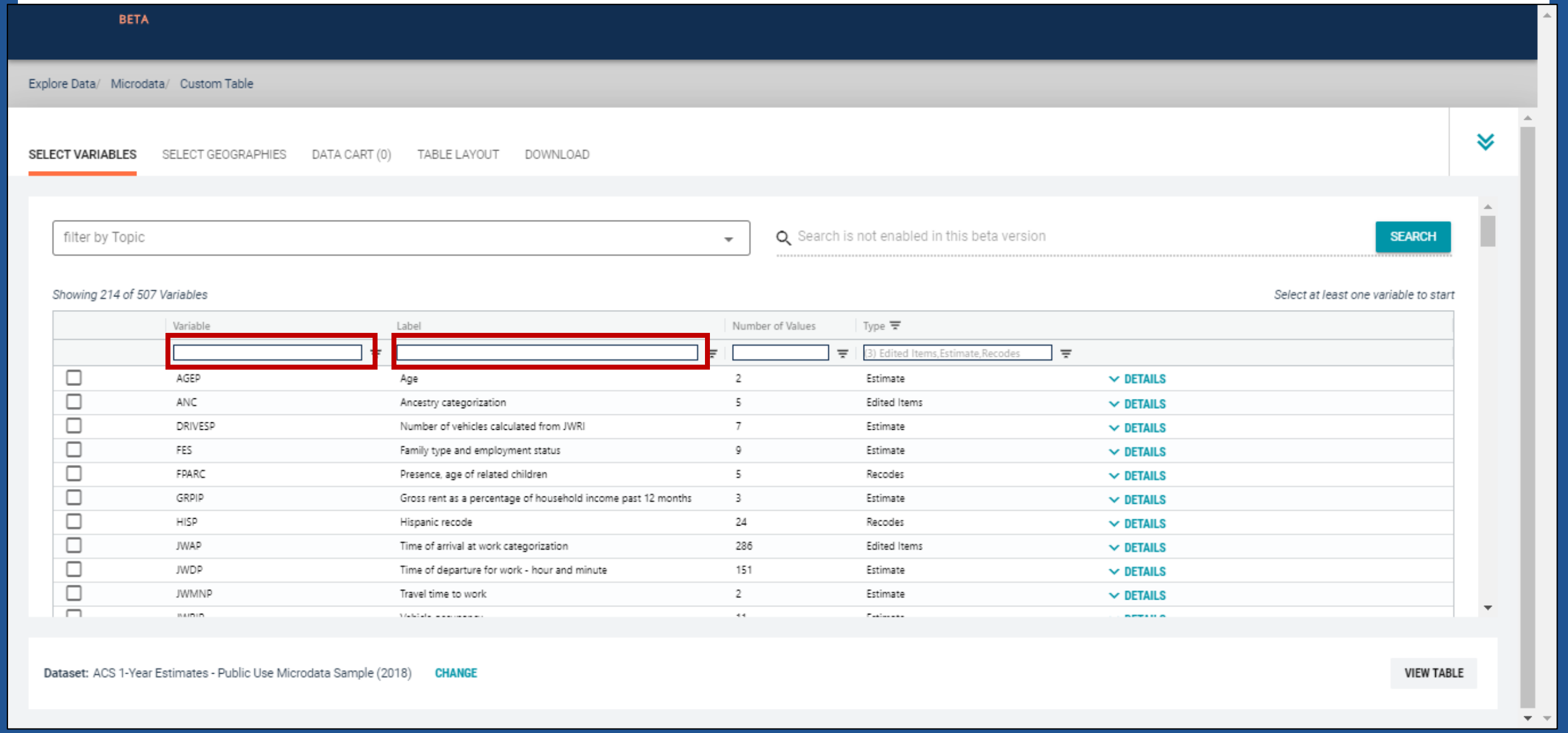
Visit Microdata Access at data.census.gov/mdat



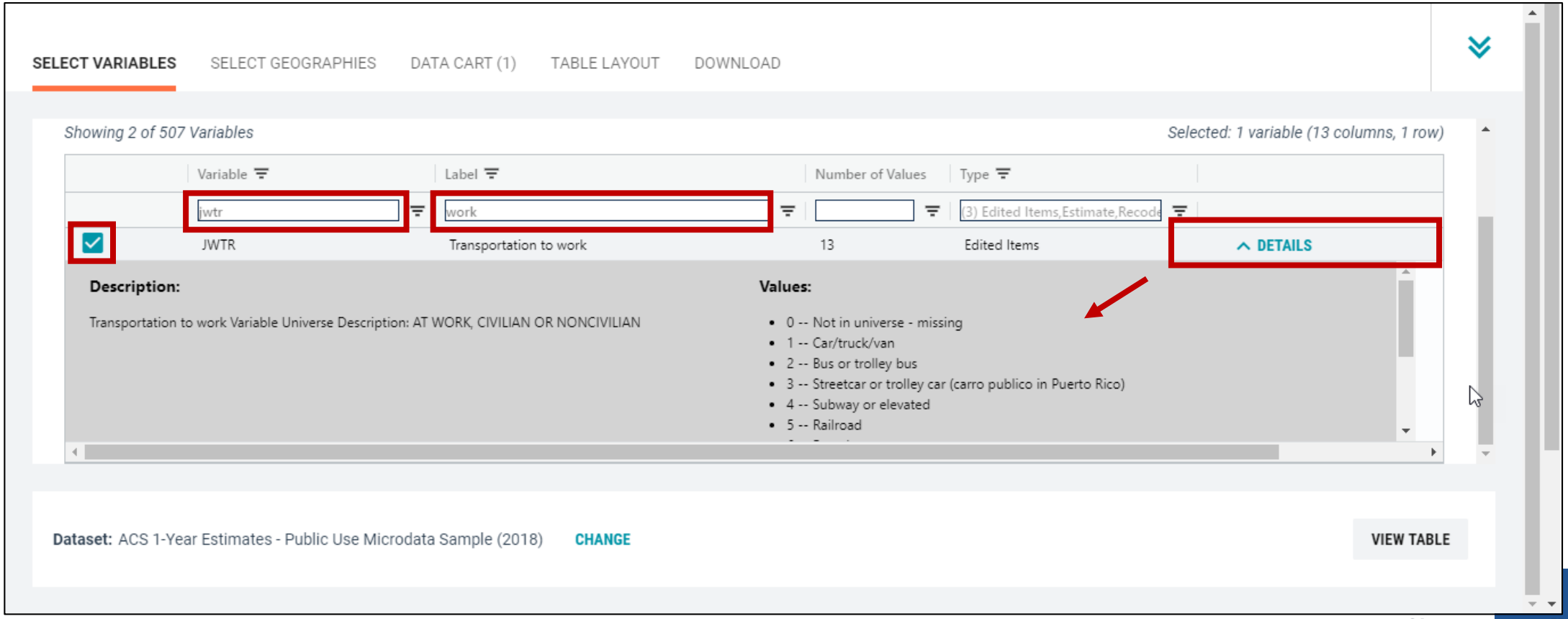
data.census.gov/mdat

- **Choose Dataset and Vintage**:
  - Dataset – **ACS 1-Year Estimates – Public Use Microdata Sample**
  - Vintage – **2018**
  - Click **Next** in the lower right

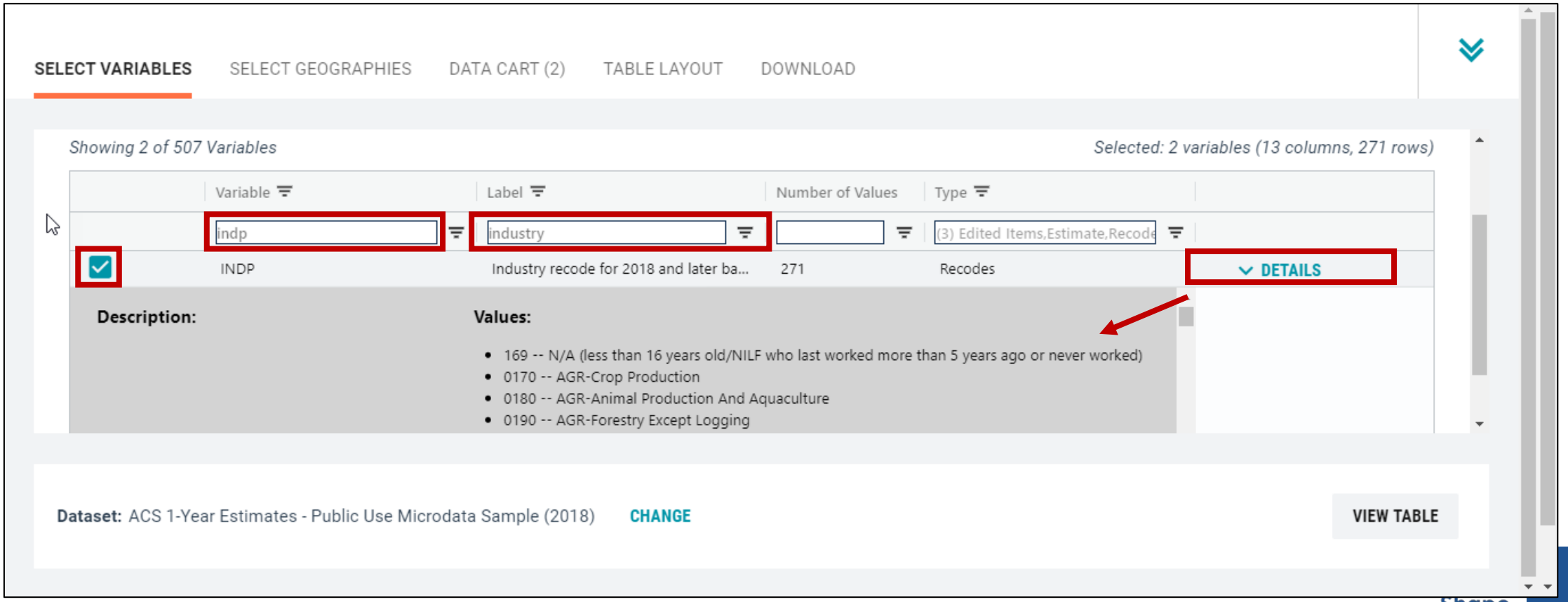
- **Search for Variables**: Use the search box below “Variable” or “Label” to find your variables of interest



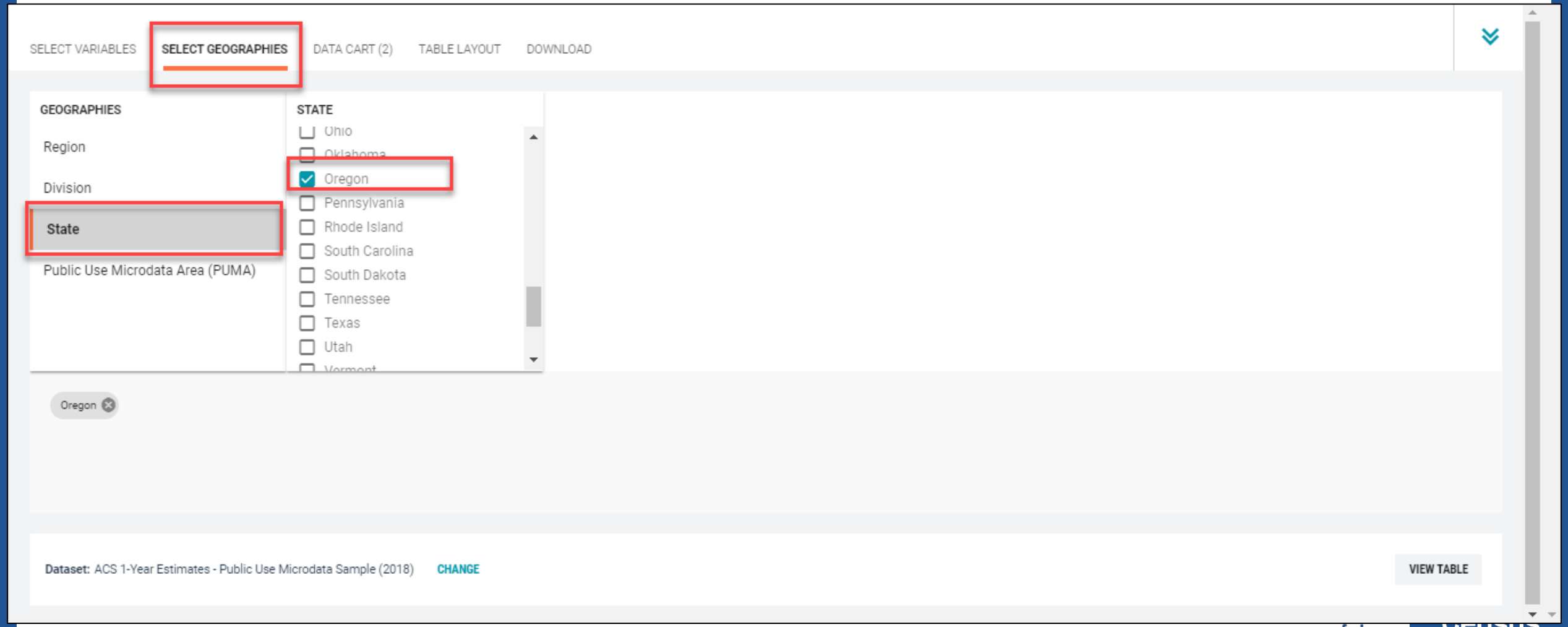
- **Select variable for Transportation to Work**:
  - Type “JWTR” in the Variable search box or type “Work” in the label search box
  - Check the box to the left of JWTR to add the variable to data cart



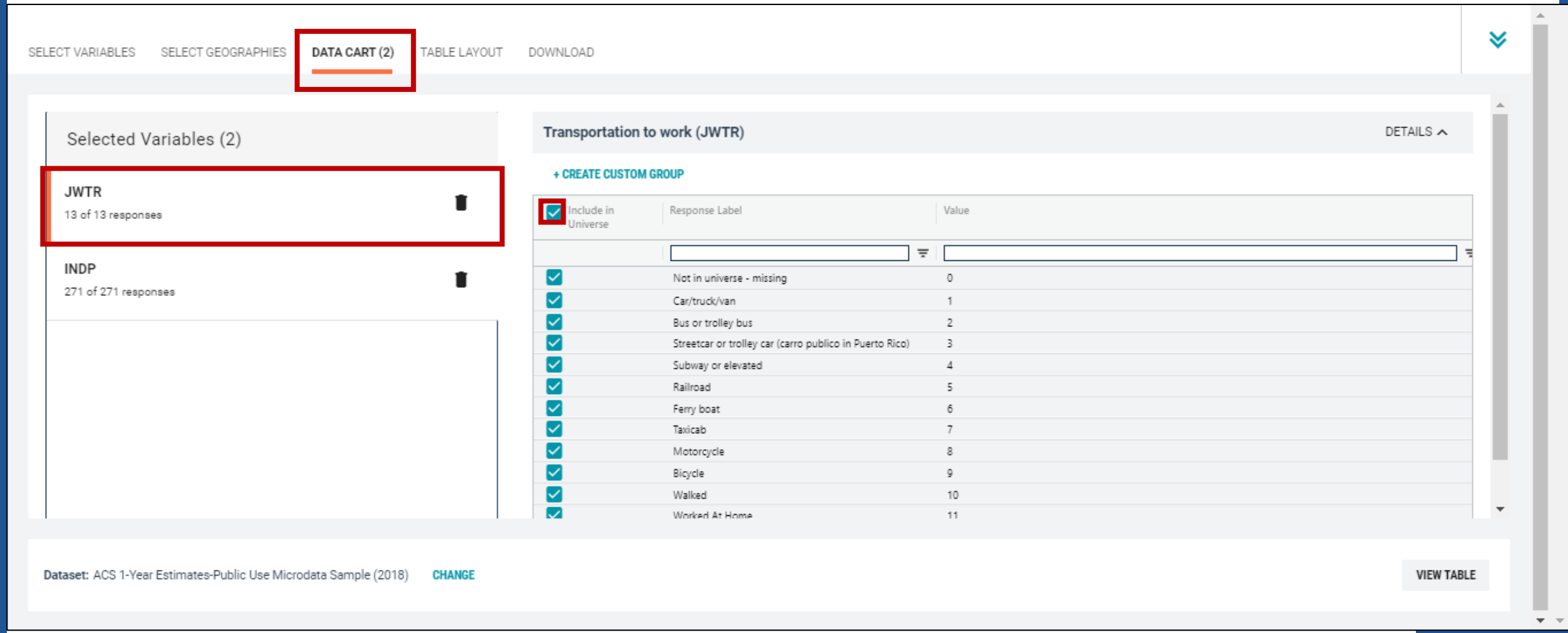
- **Select variable for Industry**:
  - Type “INDP” in the Variable search box or type “Industry” in the label search box
  - Check the box to the left of INDP to add the variable to your data cart



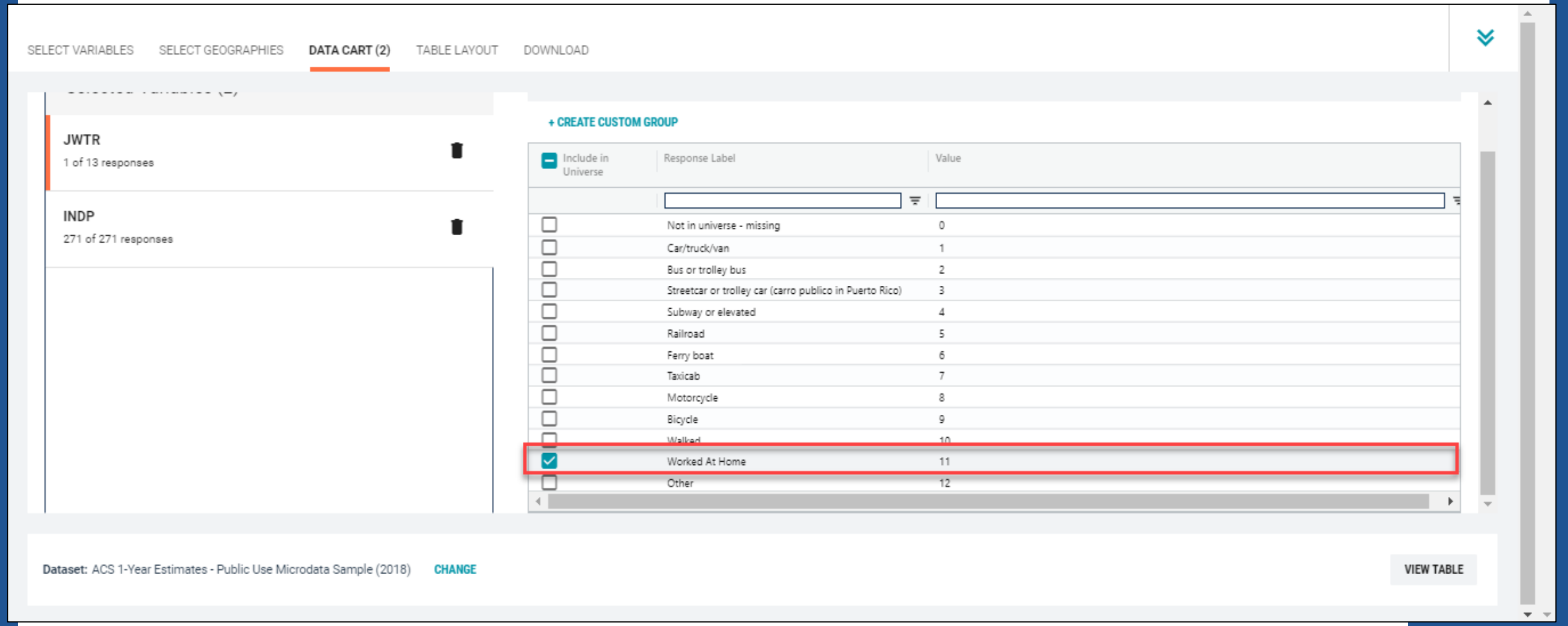
- **Select geography**:
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **State** and **Oregon**



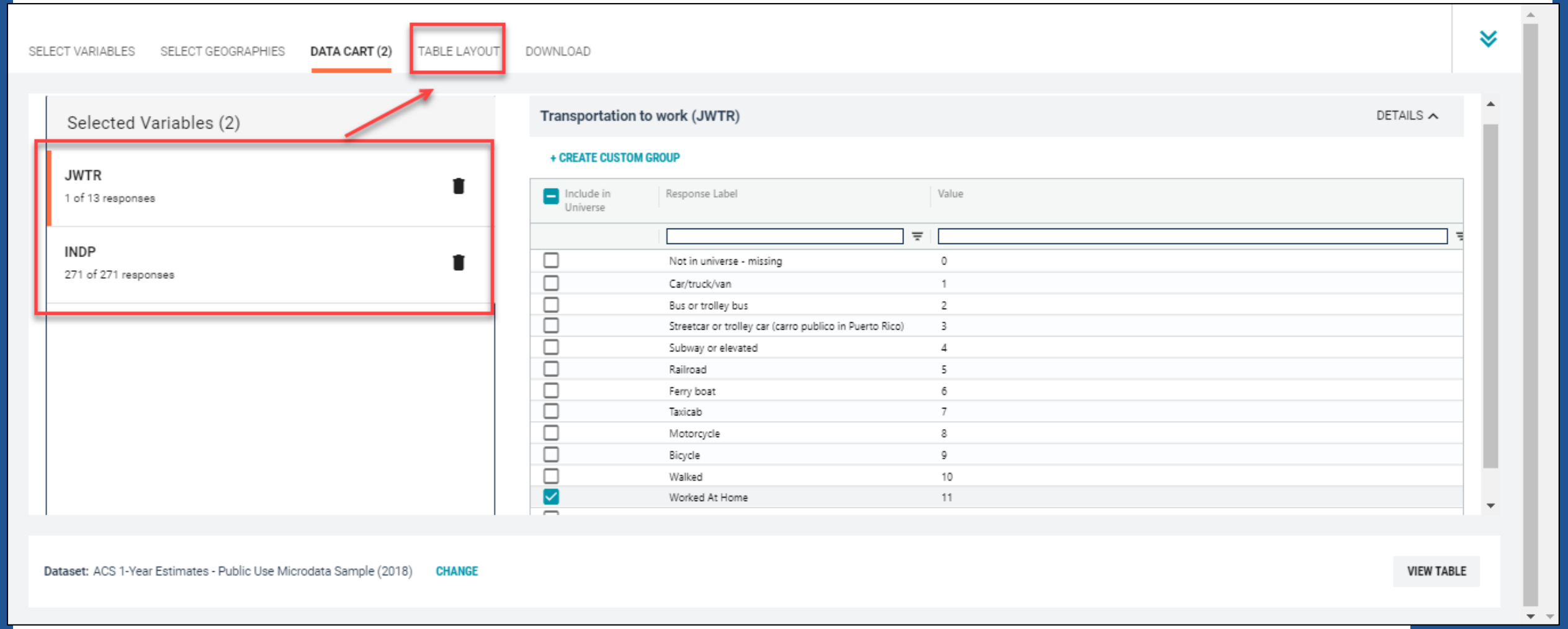
- **Limit your universe**:
  - Click the **DATA CART** tab
  - Click the **JWTR** variable on the left
  - Uncheck the box for **Include in Universe**



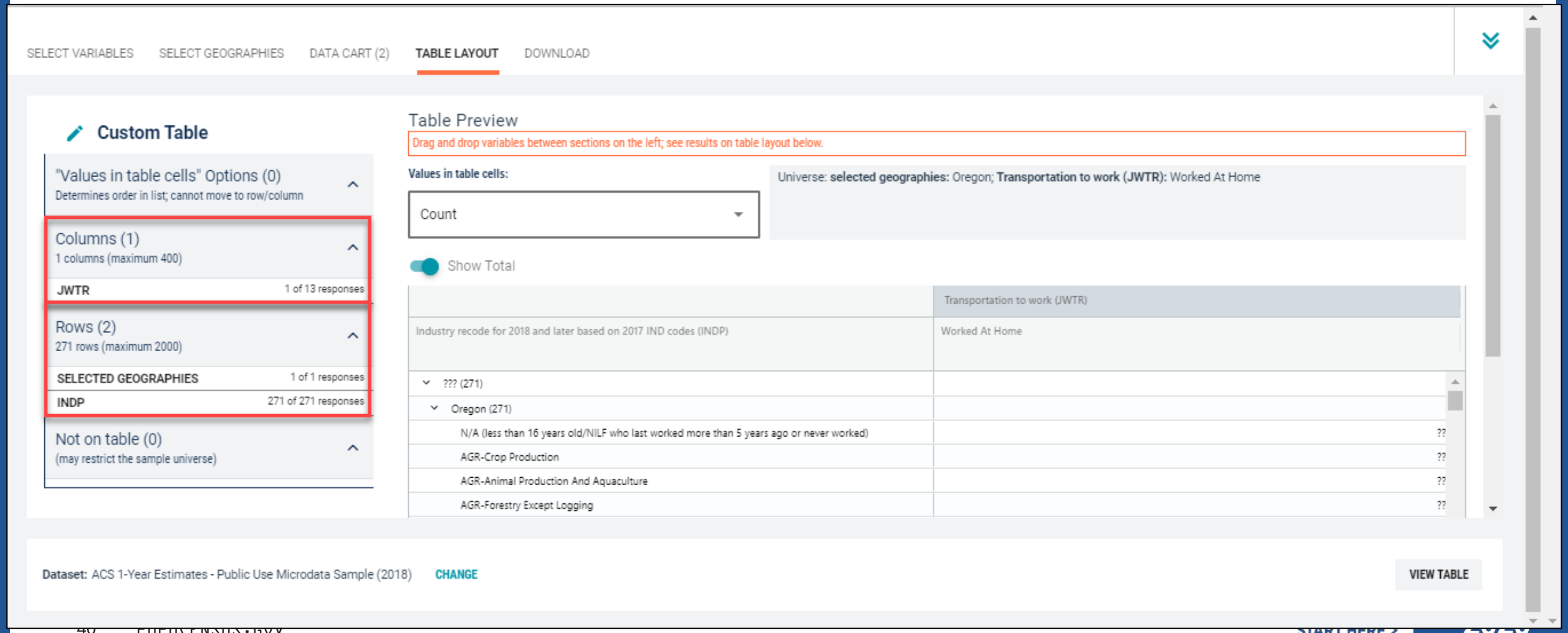
- **Limit your universe**:
  - Check the box for **Worked At Home**



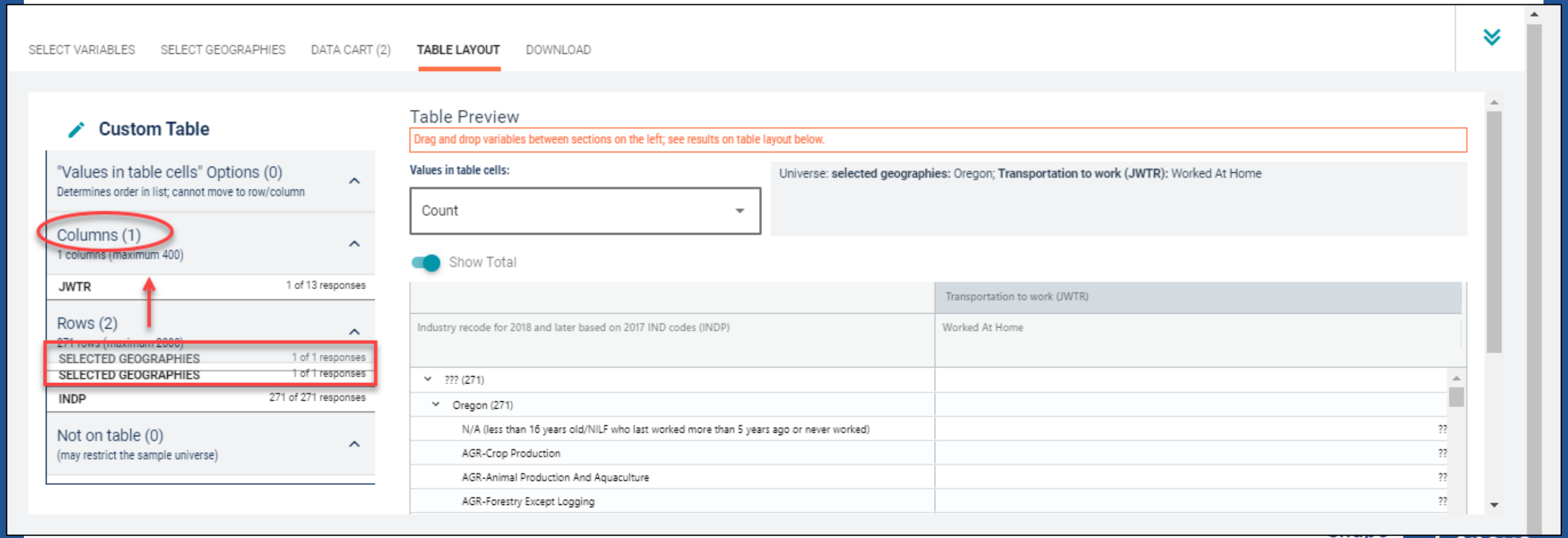
- Confirm variable selections
  - Confirm variable selections and click the **Table Layout** tab



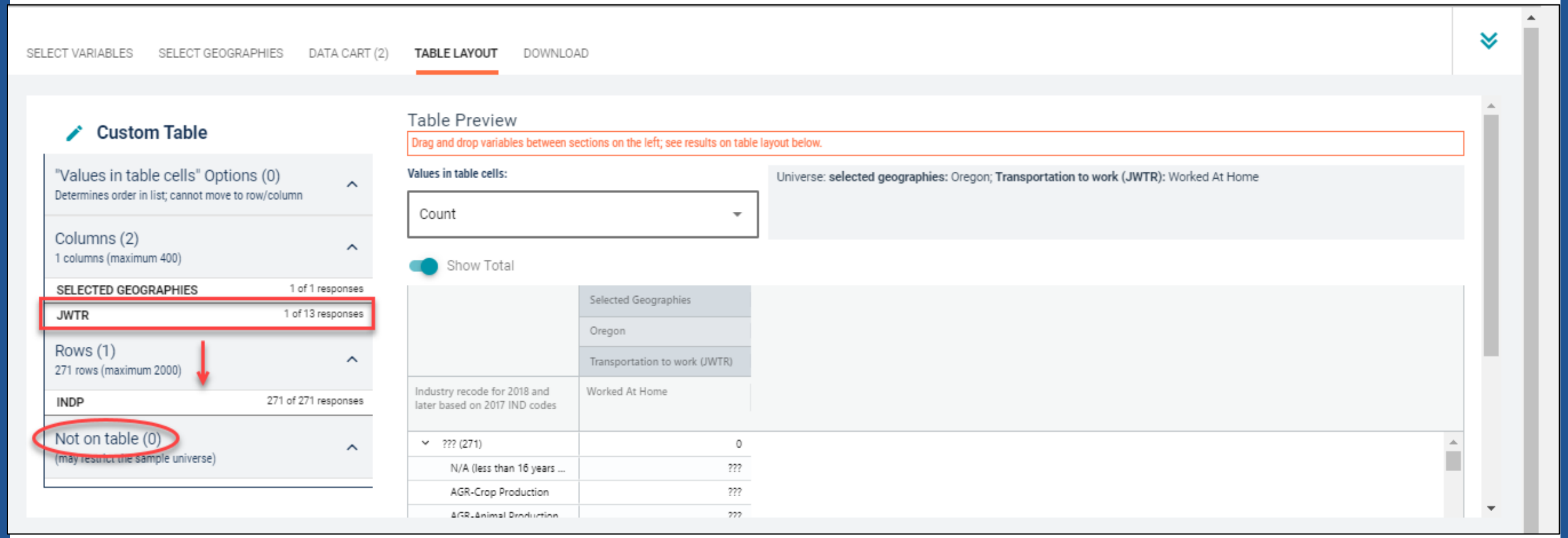
- View variable placement in the default table layout:
  - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing data for the population who worked at home in the columns, with the geography (Oregon) and detailed industries in the rows



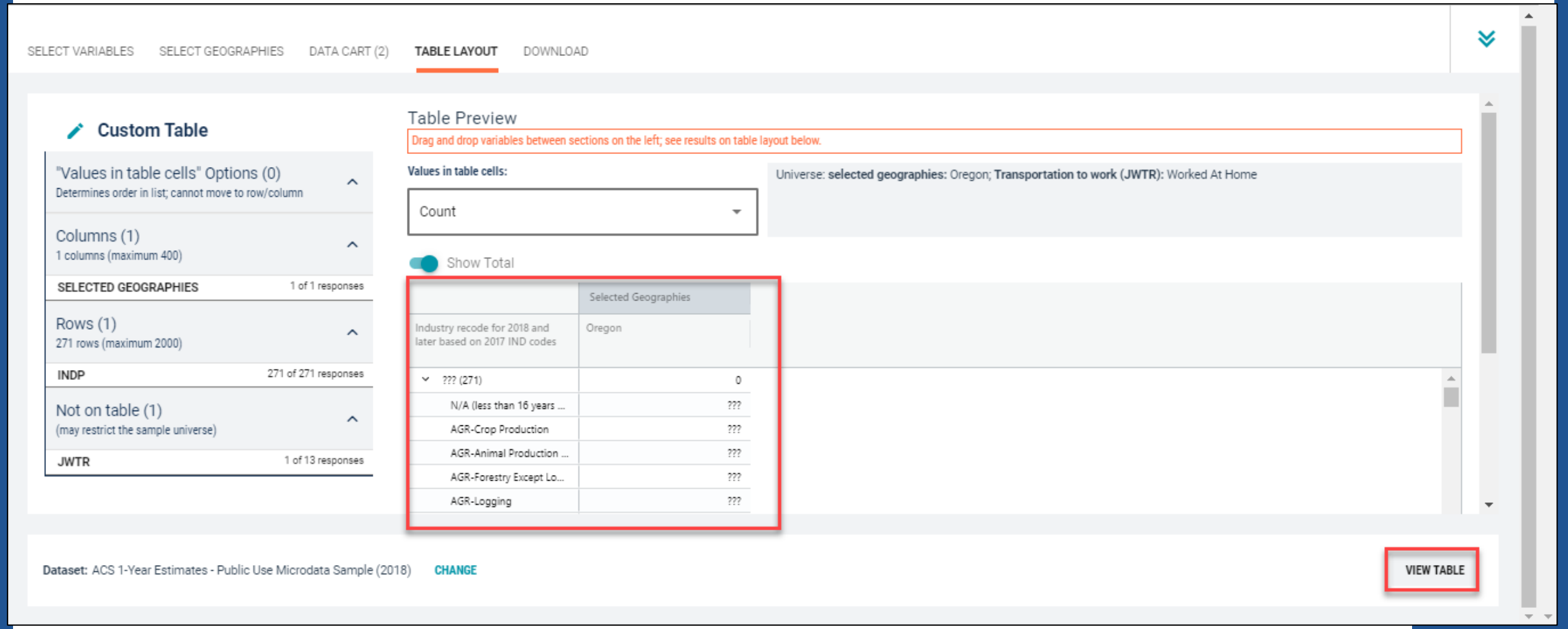
- Edit Table Layout:
  - **Move Selected Geography to Columns:**
    - **Click, hold and drag Selected Geographies on the left side of the page up to the columns heading.** This will give you a table layout similar to prefabricated ACS tables on data.census.gov, where each geography has its own column



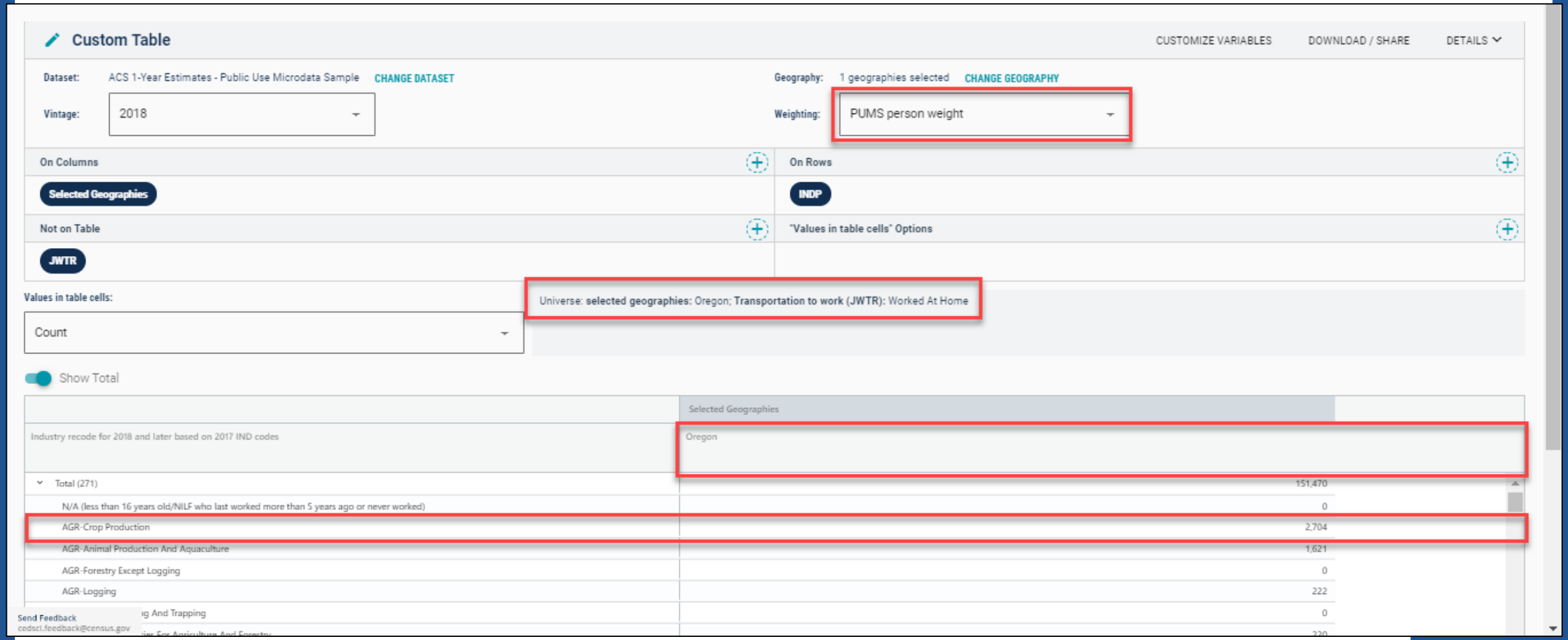
- Edit Table Layout:
  - **Move JWTR to Not on Table:** This will limit our universe to the population that worked at home. Putting this in “Not in table” restricts our universe without cluttering up our table with a repeating label for “Worked at Home.”



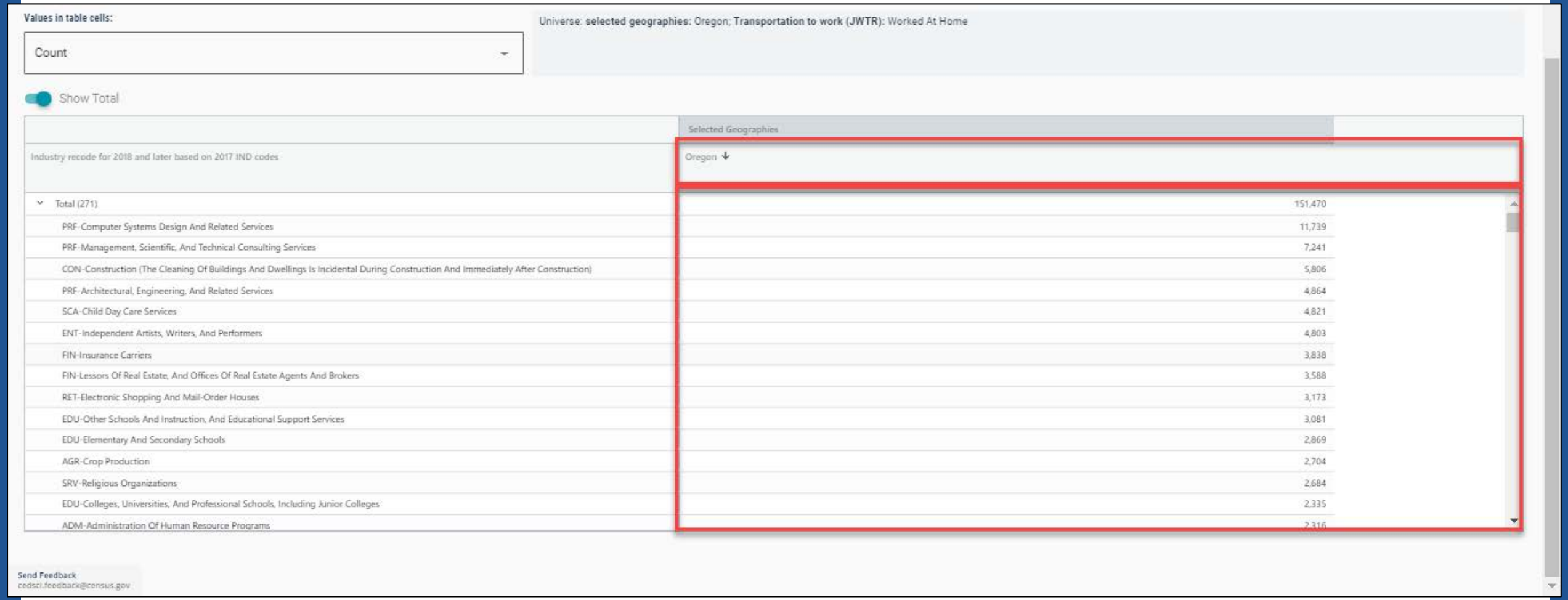
- Confirm Table Layout:
  - Confirm table layout and click **View Table** in the lower right



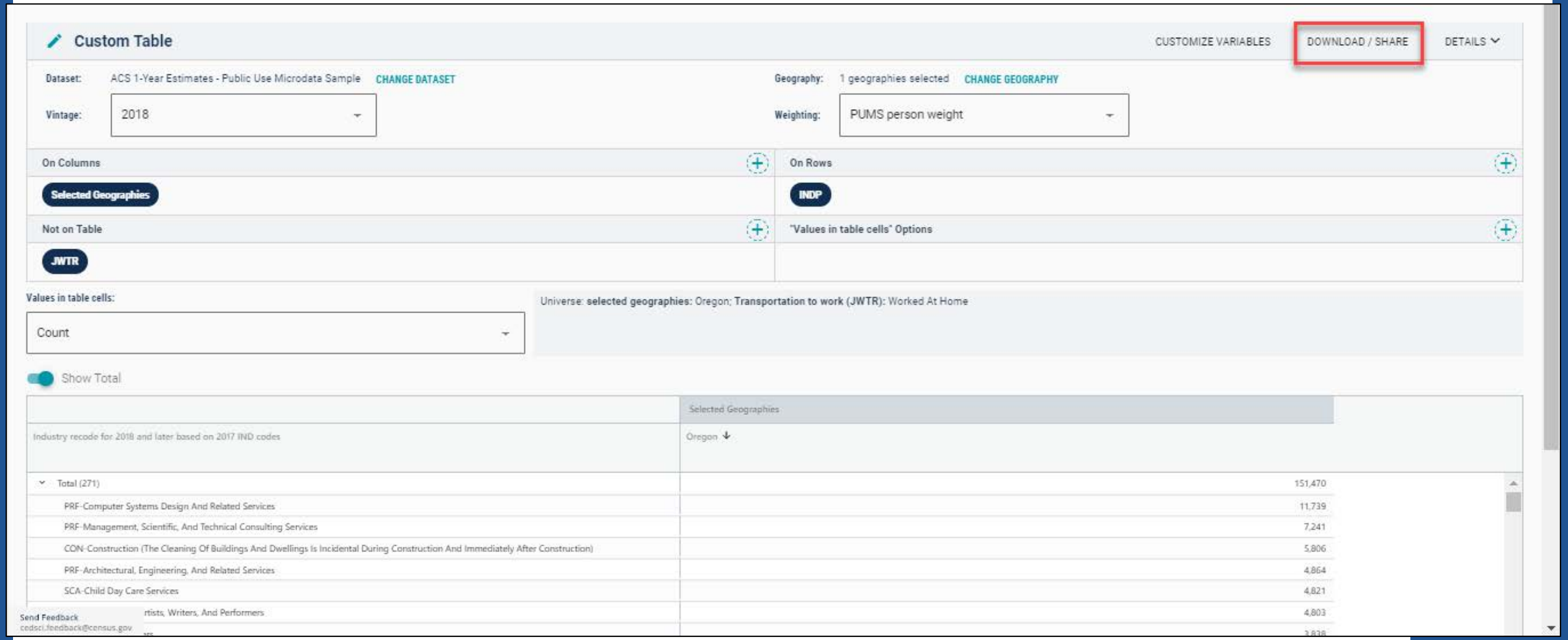
- View Table:
  - The estimated number of individuals in the Crop Production industry that worked at home in Oregon is 2,704.



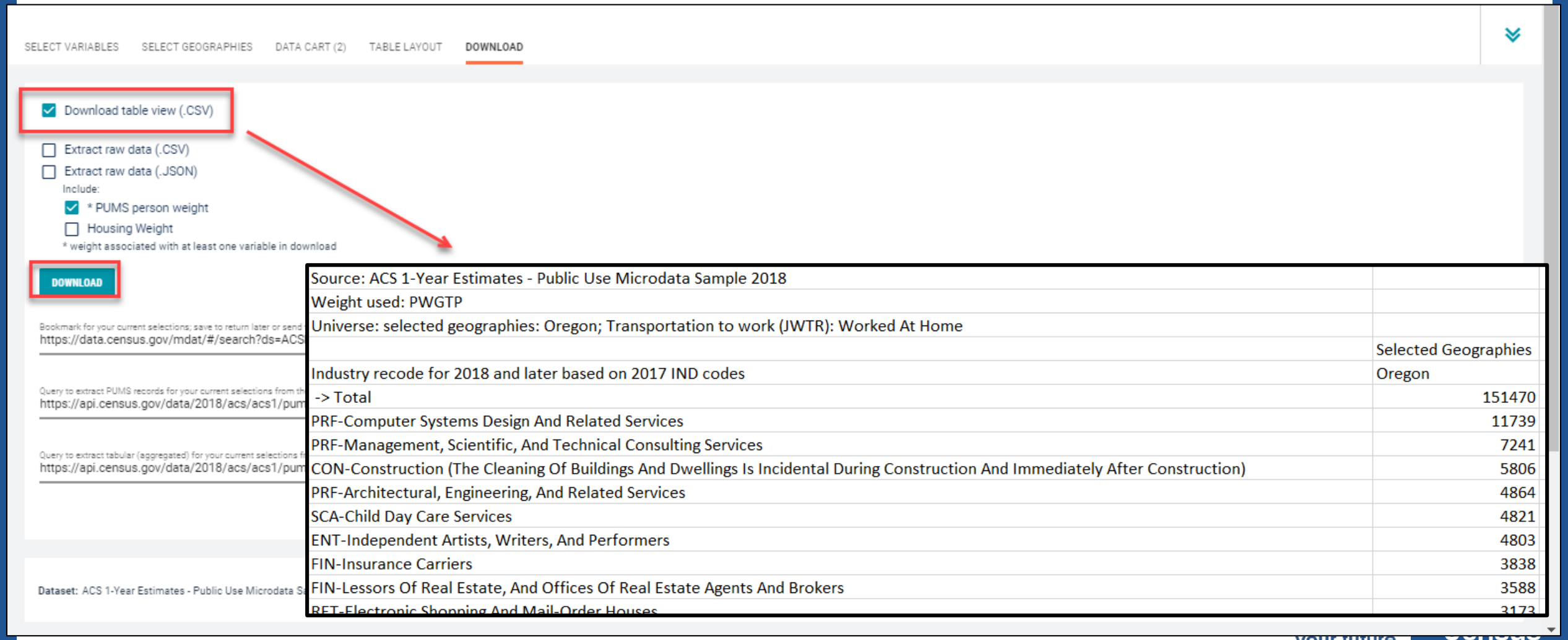
- Sort Table:
  - Click the column header to sort the column in ascending or descending order



- Download:
  - Click **Download/Share** at the top of the table



- Download:
  - Select **Download table view (.CSV),** then click **DOWNLOAD**
  - Click on **export.csv** to view your downloaded table



Source: ACS 1-Year Estimates - Public Use Microdata Sample 2018	
Weight used: PWGTP	
Universe: selected geographies: Oregon; Transportation to work (JWTR): Worked At Home	
	Selected Geographies
Industry recode for 2018 and later based on 2017 IND codes	Oregon
-> Total	151470
PRF-Computer Systems Design And Related Services	11739
PRF-Management, Scientific, And Technical Consulting Services	7241
CON-Construction (The Cleaning Of Buildings And Dwellings Is Incidental During Construction And Immediately After Construction)	5806
PRF-Architectural, Engineering, And Related Services	4864
SCA-Child Day Care Services	4821
ENT-Independent Artists, Writers, And Performers	4803
FIN-Insurance Carriers	3838
FIN-Lessors Of Real Estate, And Offices Of Real Estate Agents And Brokers	3588
RET-Electronic Shopping And Mail-Order Houses	3173

Demo

Example 3:

Uninsured People Ages 40 and Over in the United States

Table 2 – Uninsured by Age

Table 2.

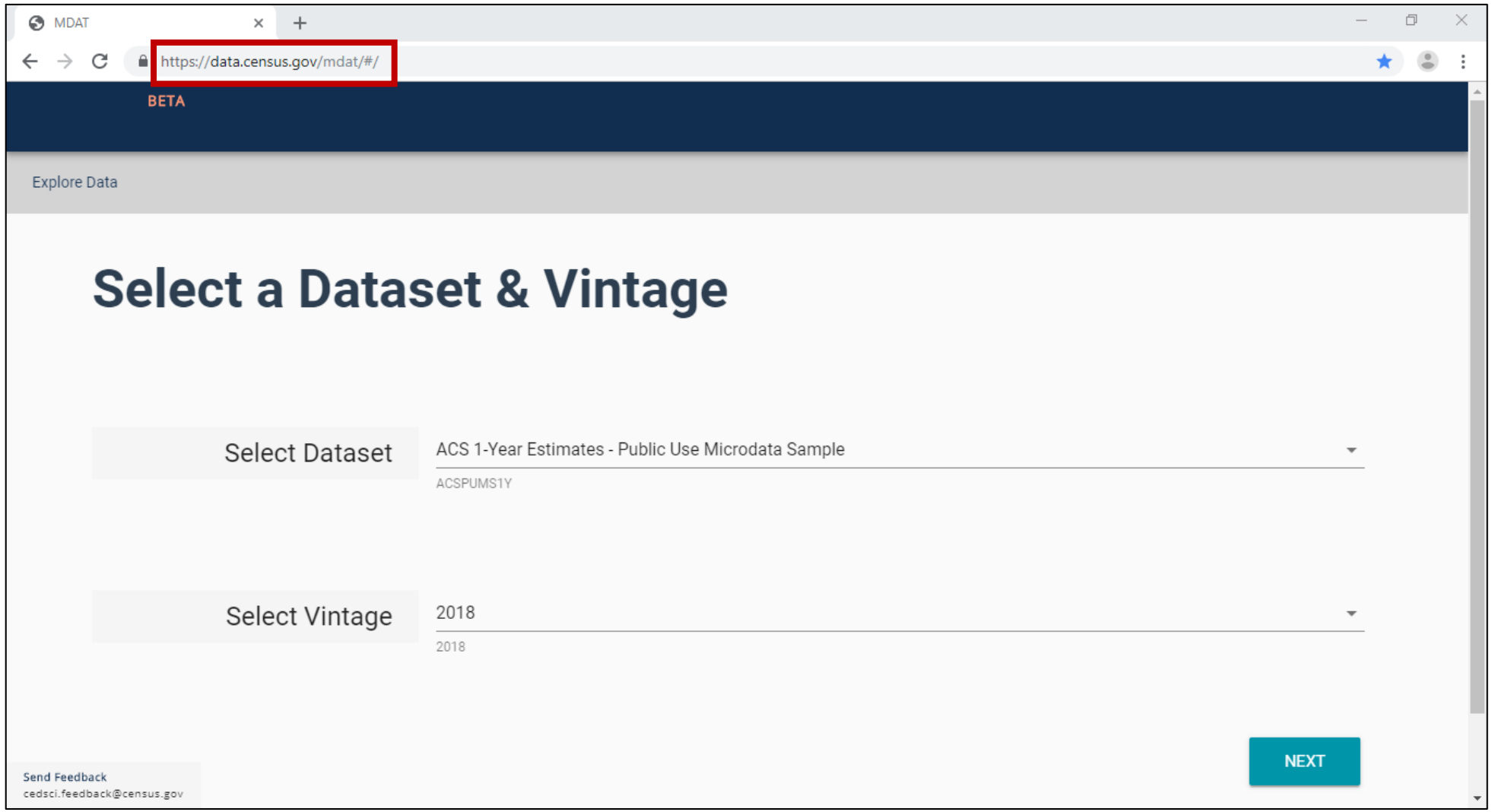
Percentage of People by Type of Health Insurance Coverage by Age: 2017 and 2018

(Numbers in thousands. Margins of error in percentage points. Population as of March of the following year. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <https://www2.census.gov/programs-surveys/cps/techdocs/cpsmar19.pdf>)

Characteristic	Total																				
			Any health insurance														Uninsured[5]				
								Private health insurance[3]					Public health insurance[4]								
			2017		2018			2017		2018			2017		2018			2017		2018		
	2017	2018	Percent	Margin of error[2] (±)	Percent	Margin of error[2] (±)	Change (2018 less 2017)[1,*]	Percent	Margin of error[2] (±)	Percent	Margin of error[2] (±)	Change (2018 less 2017)[1,*]	Percent	Margin of error[2] (±)	Percent	Margin of error[2] (±)	Change (2018 less 2017)[1,*]	Percent	Margin of error[2] (±)	Percent	Margin of error[2] (±)	Change (2018 less 2017)[1,*]
	Number	Number																			
Total	**322,490**	**323,668**	**92.1**	**0.2**	**91.5**	**0.2**	***–0.5**	**67.7**	**0.3**	**67.3**	**0.4**	**–0.4**	**34.8**	**0.3**	**34.4**	**0.3**	***–0.4**	**7.9**	**0.2**	**8.5**	**0.2**	***0.5**
Age																					
Under age 65	271,424	270,881	90.8	0.2	90.0	0.2	*–0.7	70.3	0.4	70.2	0.4	–0.1	23.6	0.3	22.8	0.3	*–0.8	9.2	0.2	10.0	0.2	*0.7
Under age 19[6]	77,487	77,333	95.0	0.3	94.5	0.3	*–0.6	61.6	0.6	61.8	0.7	0.2	37.0	0.6	35.7	0.7	*–1.3	5.0	0.3	5.5	0.3	*0.6
Aged 19 to 64	193,937	193,548	89.0	0.2	88.3	0.3	*–0.8	73.8	0.4	73.5	0.4	–0.2	18.3	0.3	17.6	0.3	*–0.6	11.0	0.2	11.7	0.3	*0.8
Aged 19 to 25[7]	29,811	29,297	86.3	0.6	85.7	0.6	–0.7	70.0	0.8	69.9	0.9	–0.1	18.8	0.7	18.3	0.7	–0.5	13.7	0.6	14.3	0.6	0.7
Aged 26 to 34	40,222	40,768	86.0	0.5	86.1	0.5	Z	70.4	0.7	71.3	0.8	1.0	18.5	0.6	17.5	0.6	*–1.0	14.0	0.5	13.9	0.5	Z
Aged 35 to 44	40,662	41,027	88.6	0.4	87.5	0.5	*–1.0	75.0	0.6	73.7	0.6	*–1.2	16.3	0.6	16.2	0.5	Z	11.4	0.4	12.5	0.5	*1.0
Aged 45 to 64	83,242	82,455	91.7	0.3	90.7	0.3	*–1.0	76.1	0.5	75.8	0.5	–0.4	18.9	0.4	18.1	0.4	*–0.8	8.3	0.3	9.3	0.3	*1.0
Aged 65 and older	51,066	52,788	99.0	0.1	99.1	0.1	Z	53.7	0.8	52.4	0.7	*–1.3	94.2	0.3	94.1	0.3	–0.1	1.0	0.1	0.9	0.1	Z

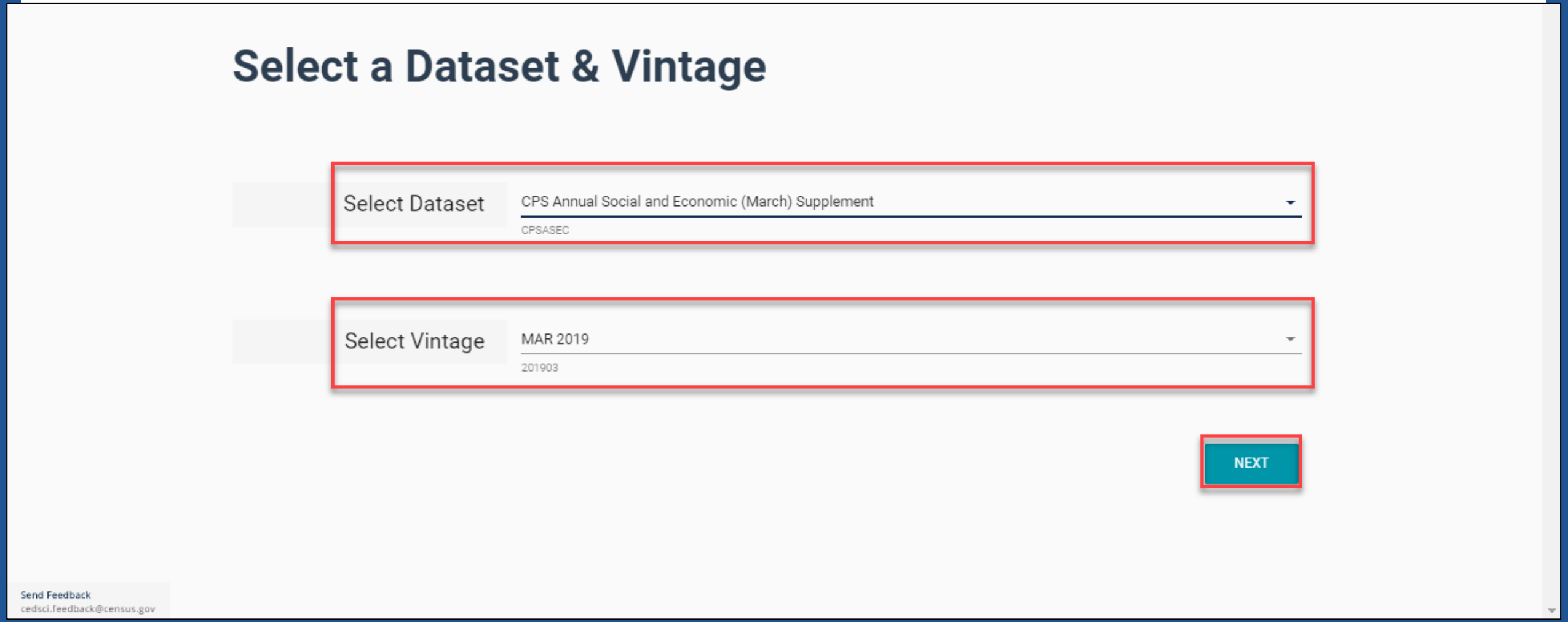
Prefabricated CPS tables provide uninsured by age, but what if we need more detailed age breakouts?

- **Visit Microdata Access at data.census.gov/mdat**

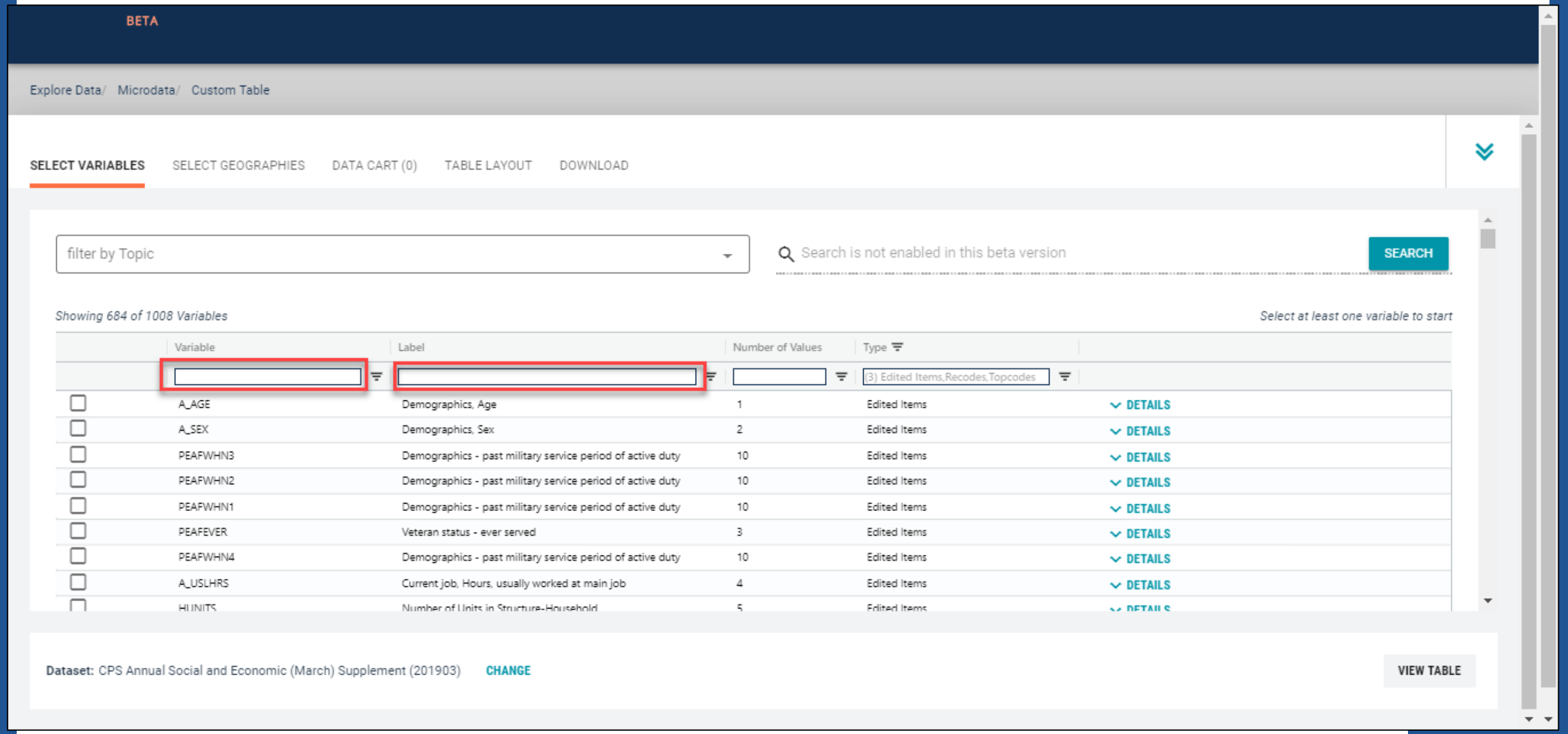


data.census.gov/mdat

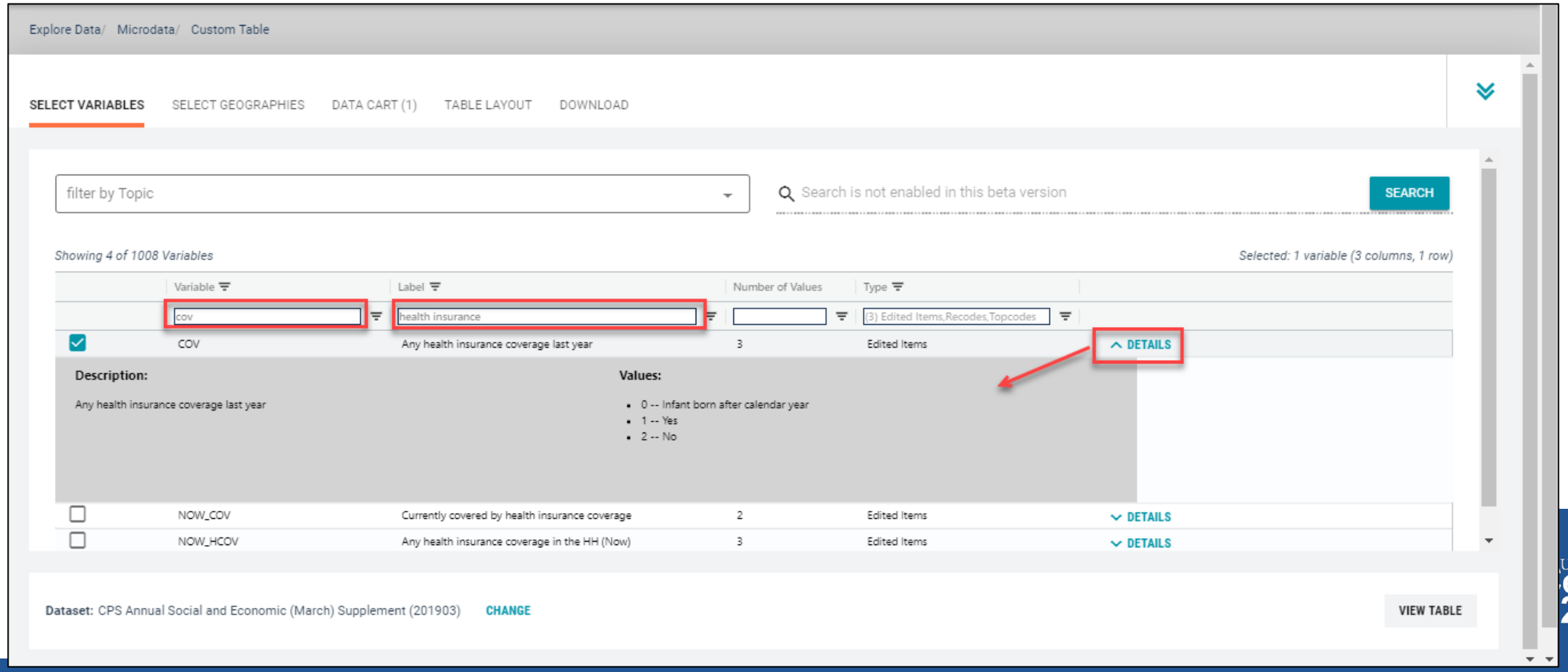
- **Choose Dataset and Vintage**:
  - Dataset – **CPS Annual Social and Economic (March) Supplement**
  - Vintage – **MAR 2019**
  - Click **Next** in the lower right



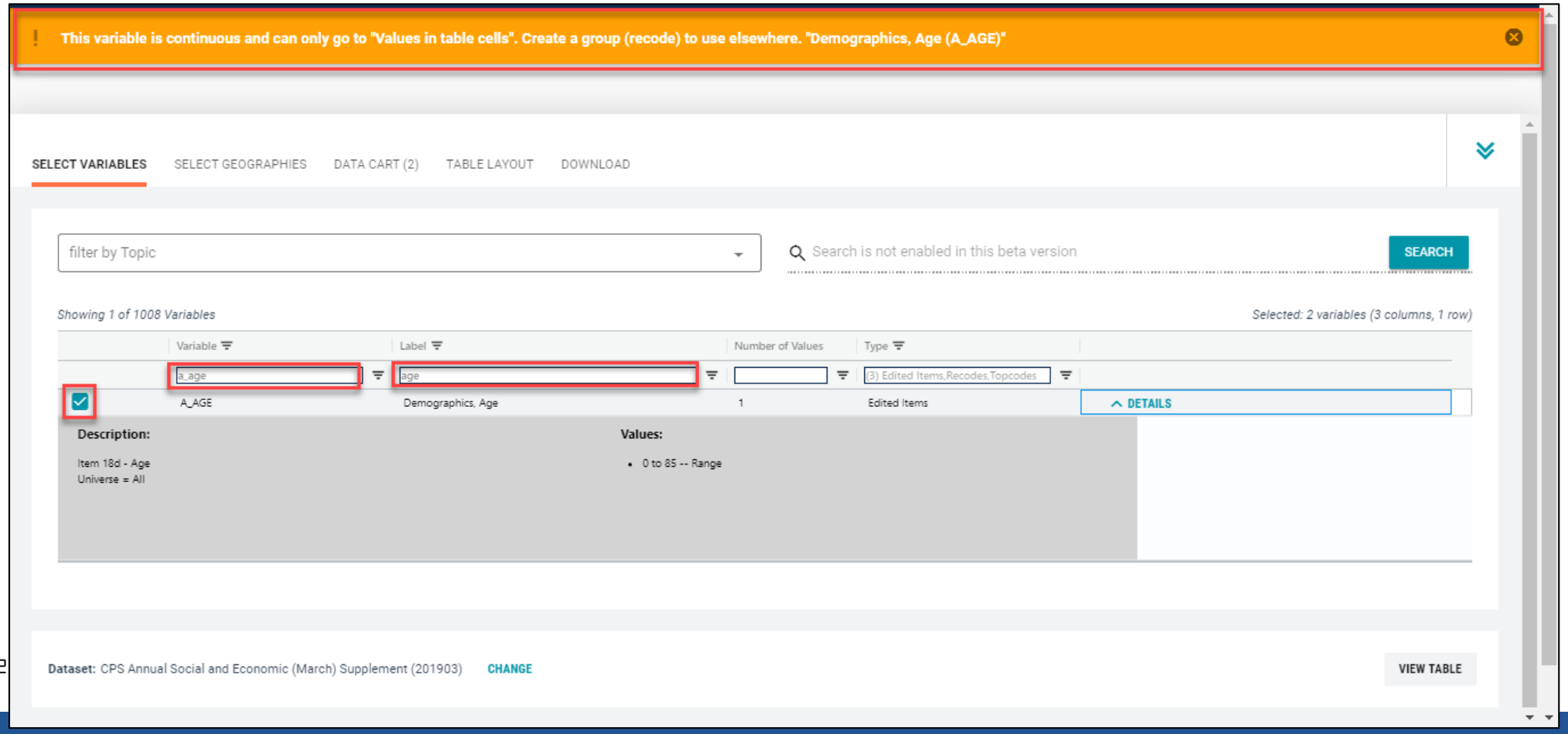
- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest



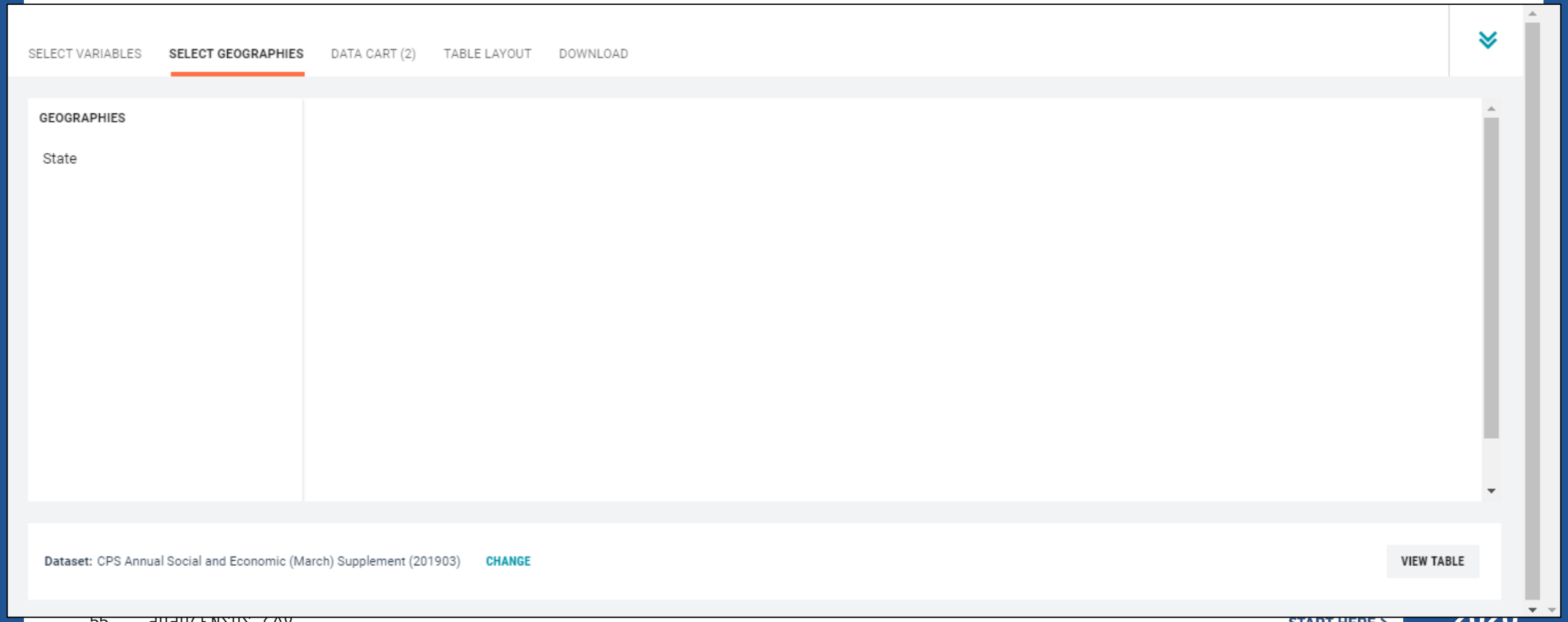
- **Select variable for Health Insurance Coverage Status**:
  - Type “COV” in the Variable search box or type “health insurance” in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of COV to add the variable to your data cart



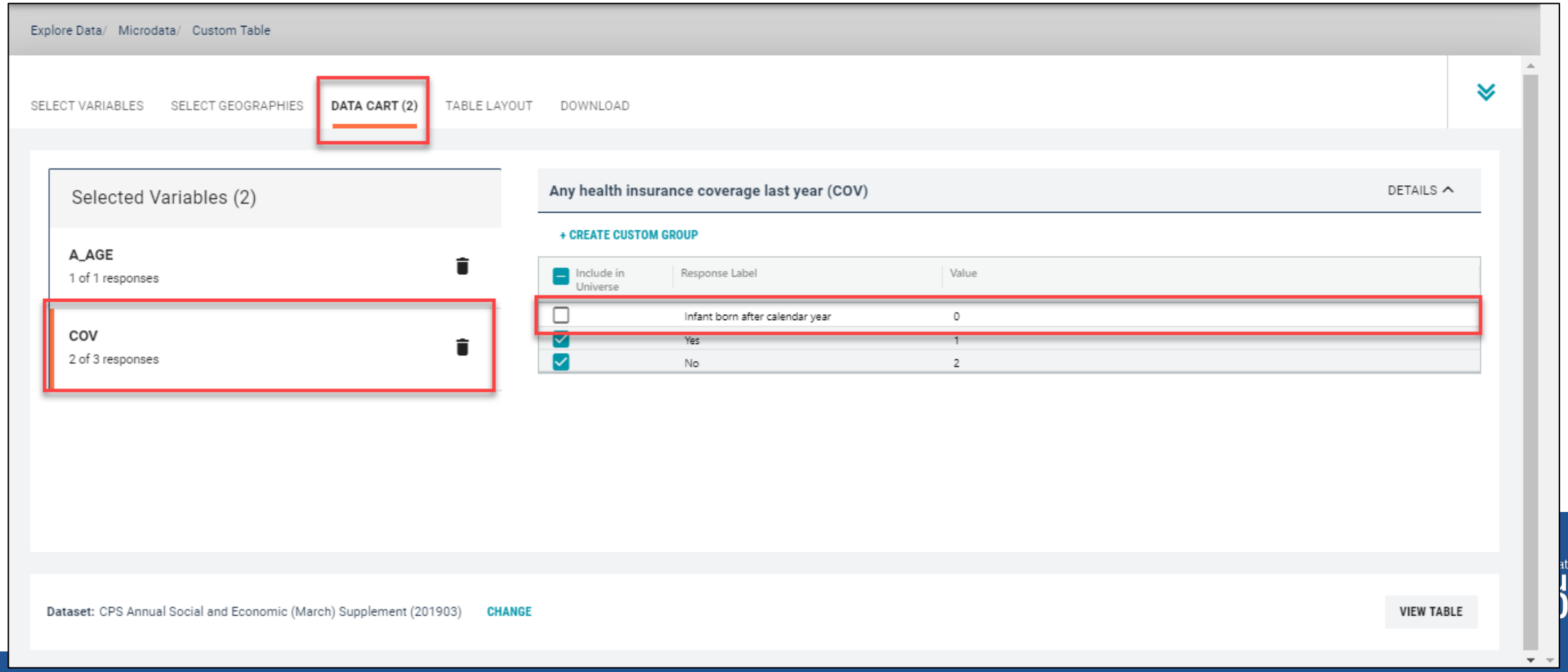
- **Select variable for Age**:
  - Type “A_AGE” in the Variable search box or type “Age” in the label search box
  - Check the box to the left of A_AGE to add the variable to your data cart
  - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (you will do this action in the Data Cart)



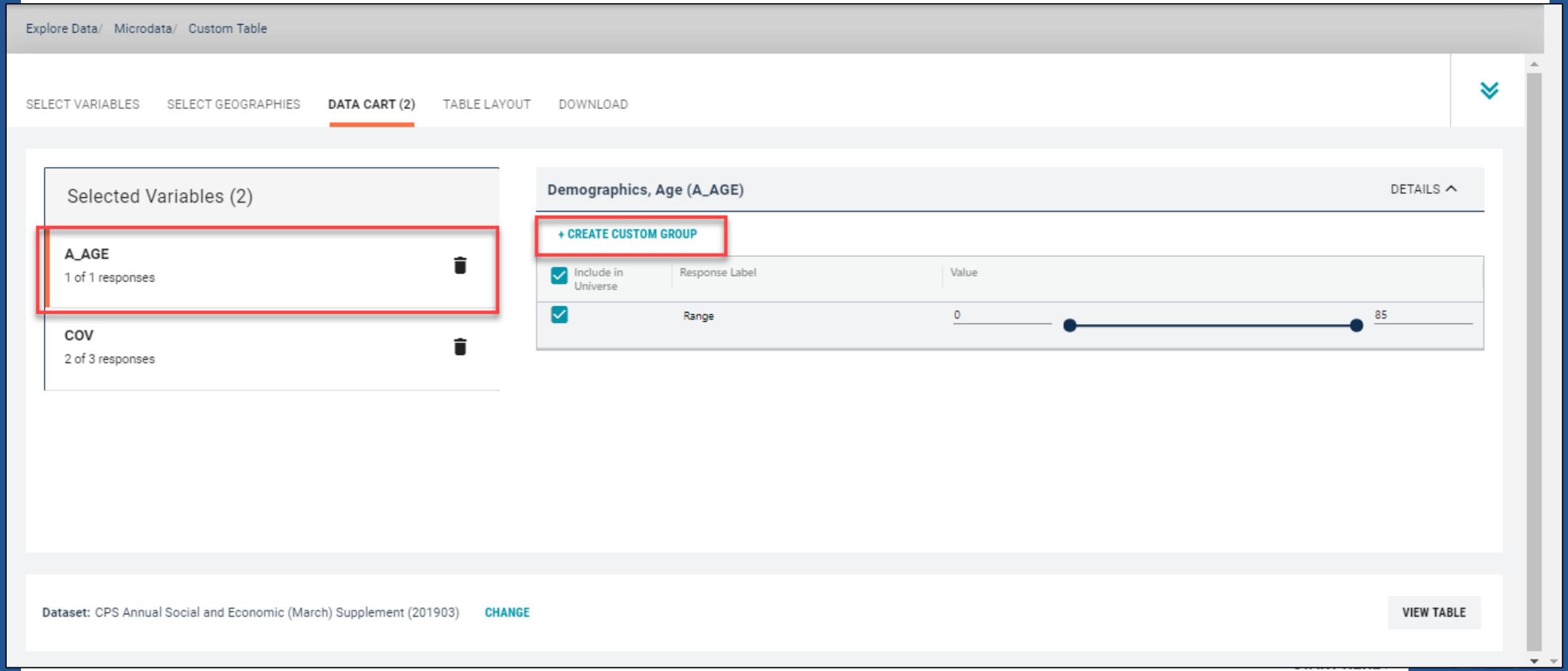
- **Select geography**:
  - Since we are getting the estimate for the United States, there is no need to make a selection. If no selection is made, the geography will automatically default to the United States



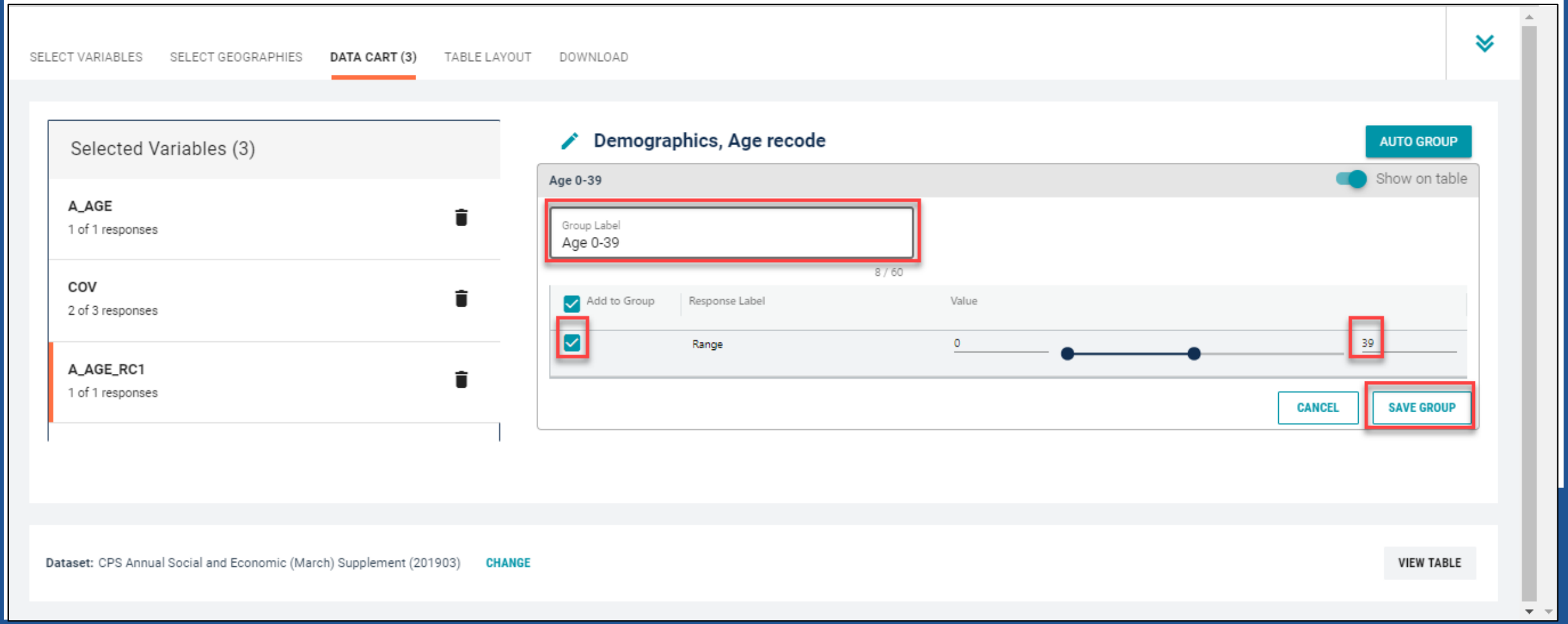
- **Limit your universe**:
  - Click the **Data Cart** tab
  - Click the **COV** variable on the left
  - Uncheck the box for **Infant born after calendar year** (This action allows you to limit the universe to individuals who were present for the full calendar year reference period)



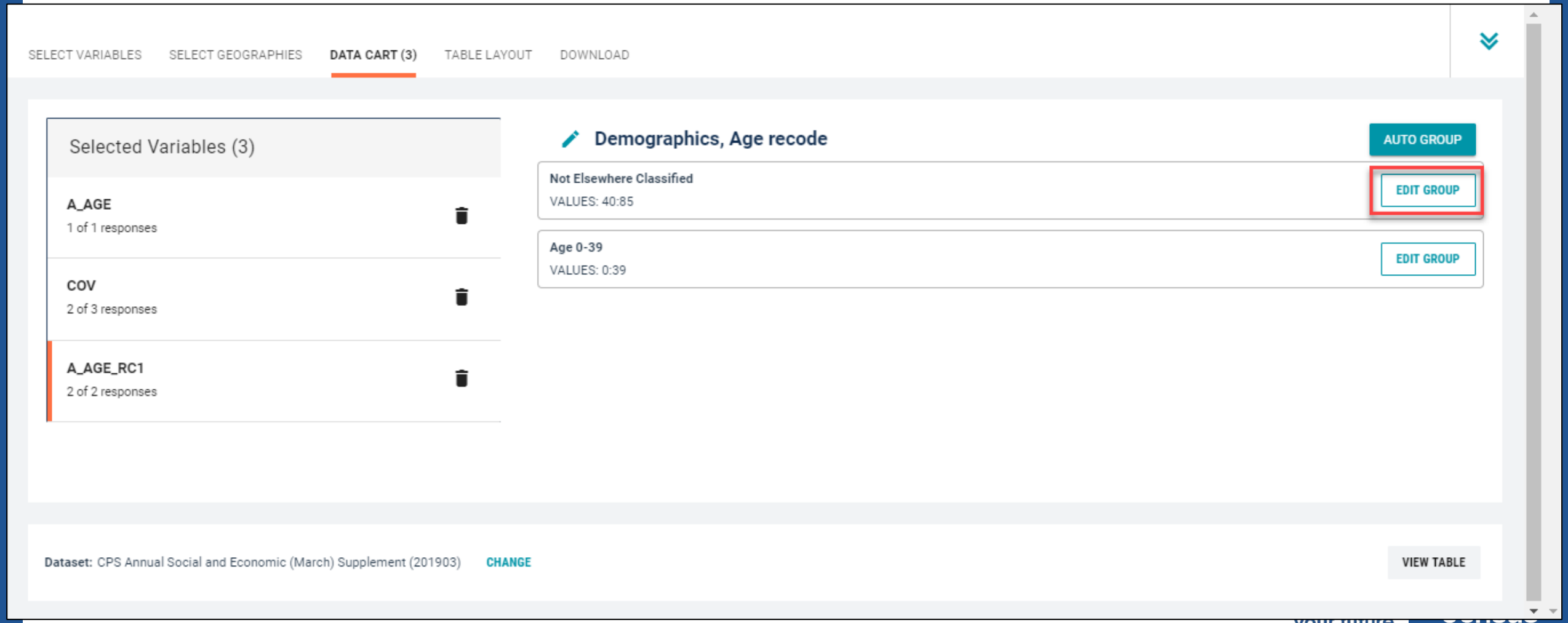
- **Categorize (recode) your variable**:
  - Click the **A_AGE** variable on the left
  - Click **Create Custom Group** to begin specifying your age categories (e.g. 0-39; 40 and over)



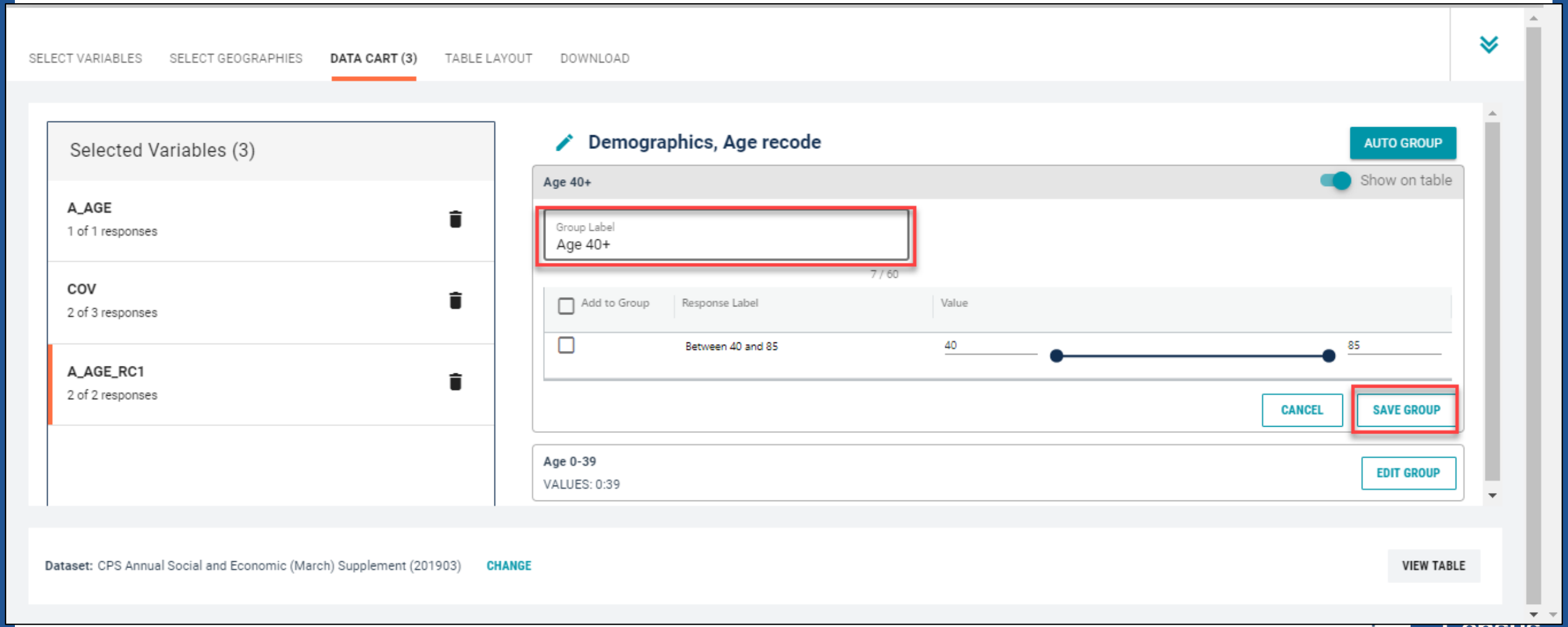
- Categorize (recode) your variable:
  - Click into **Group label** and type a label for the first category you want to create (e.g. 0-39)
  - Check the box next to the response category for this code (Range)
  - Edit the end range of age from 99 to **39**
  - Click **Save Group**



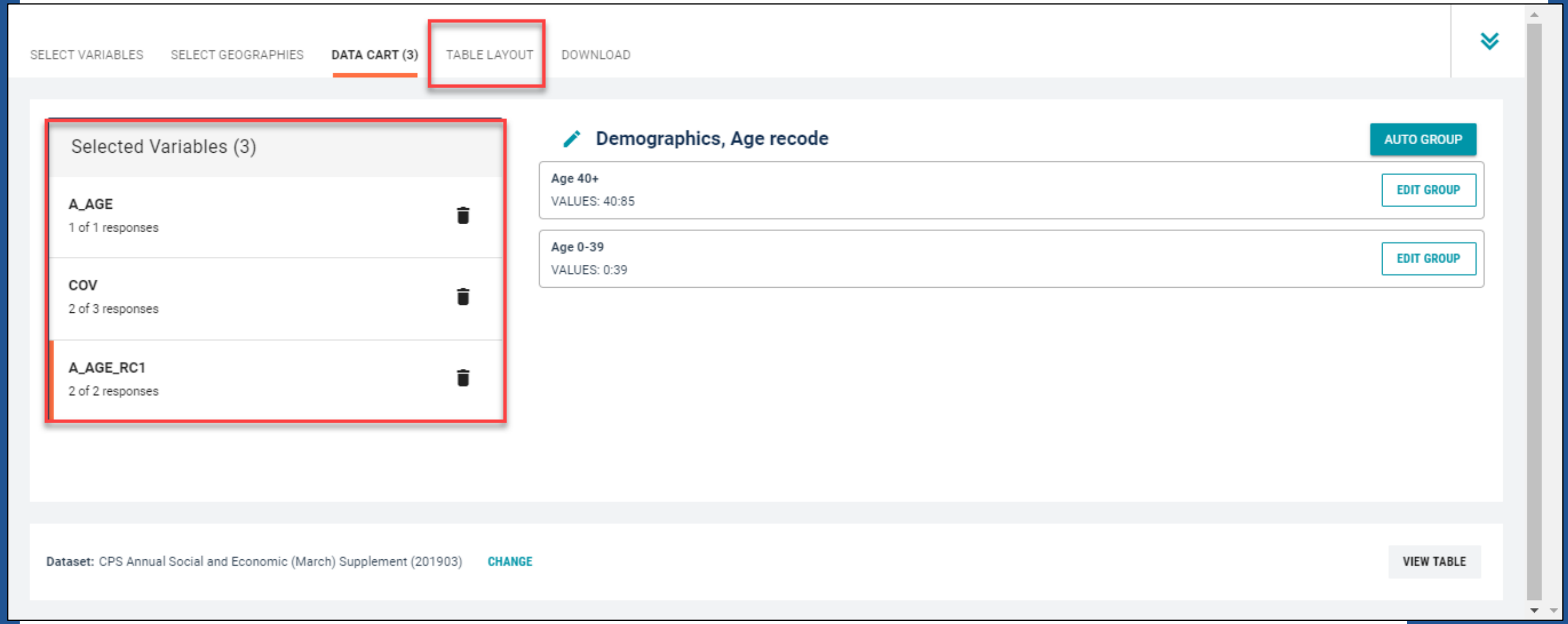
- Categorize (recode) your variable:
  - Your first category Age 0-39 appears just below “Not Elsewhere Classified”
  - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category



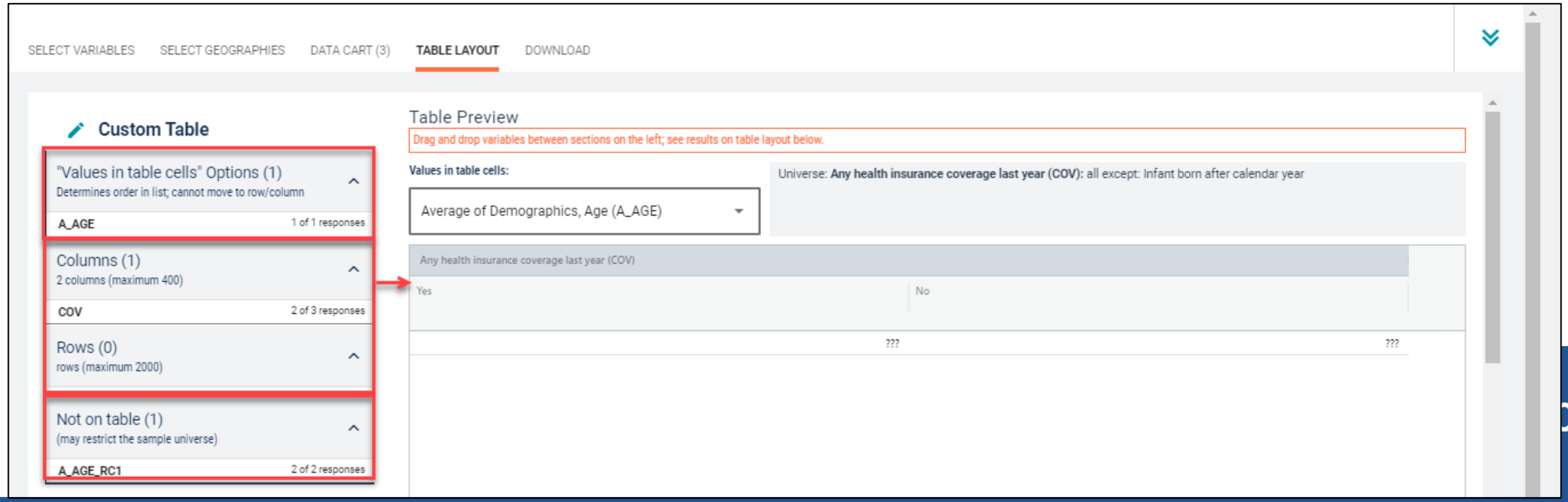
- Categorize (recode) your variable:
  - Click into **Group Label** and rename the category (e.g. Age 40+)
  - Click **Save Group** in the lower right



- Confirm variable selections
  - Confirm variable selections and click the **Table Layout** tab

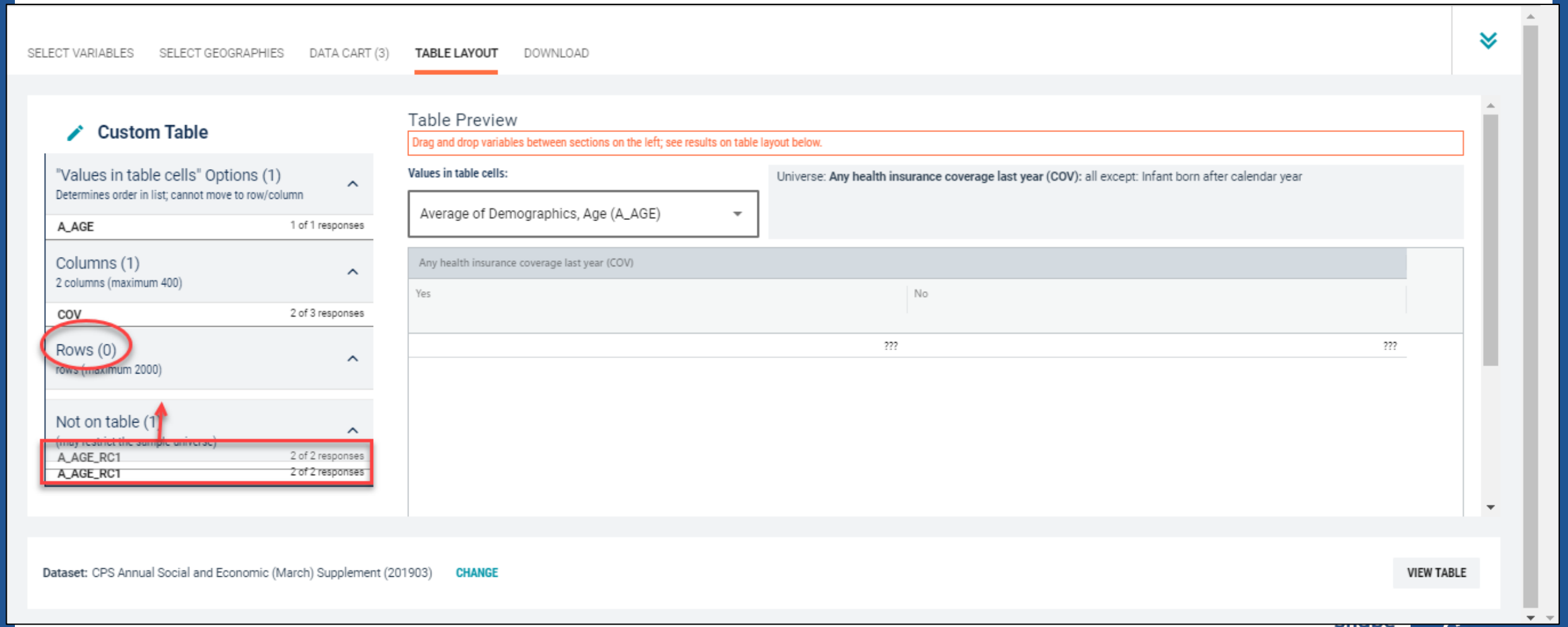


- View variable placement in the default table layout:
  - **Values in table cells Options –** When variables are shown here, you have more options to choose from in the drop down menu for “Values in table cells”
  - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing data by geography (United States) for health insurance coverage status in the rows.
  - **Not on Table – Can restrict the universe.** By default, A_AGE_RC1 is not on the table, and it does not restrict the universe because the recode includes ages for all people (0-39 and 40+)

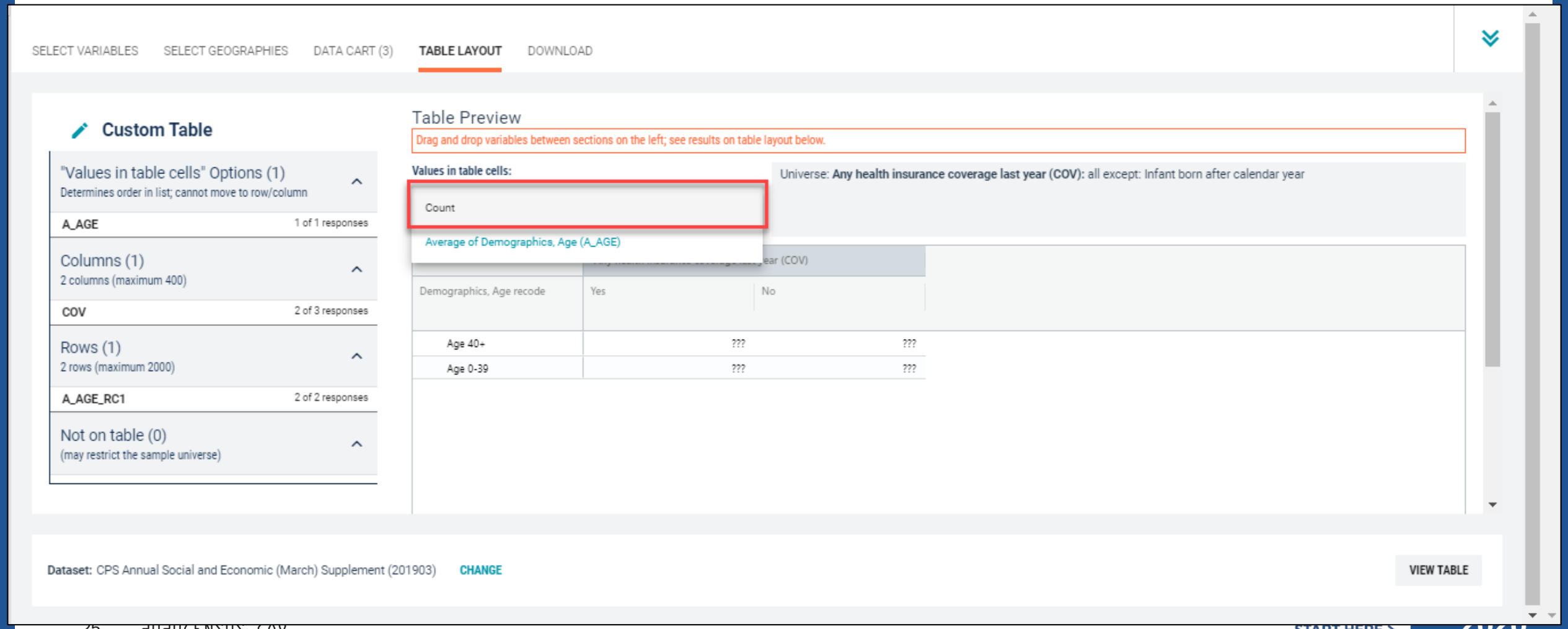


United States Census 2020

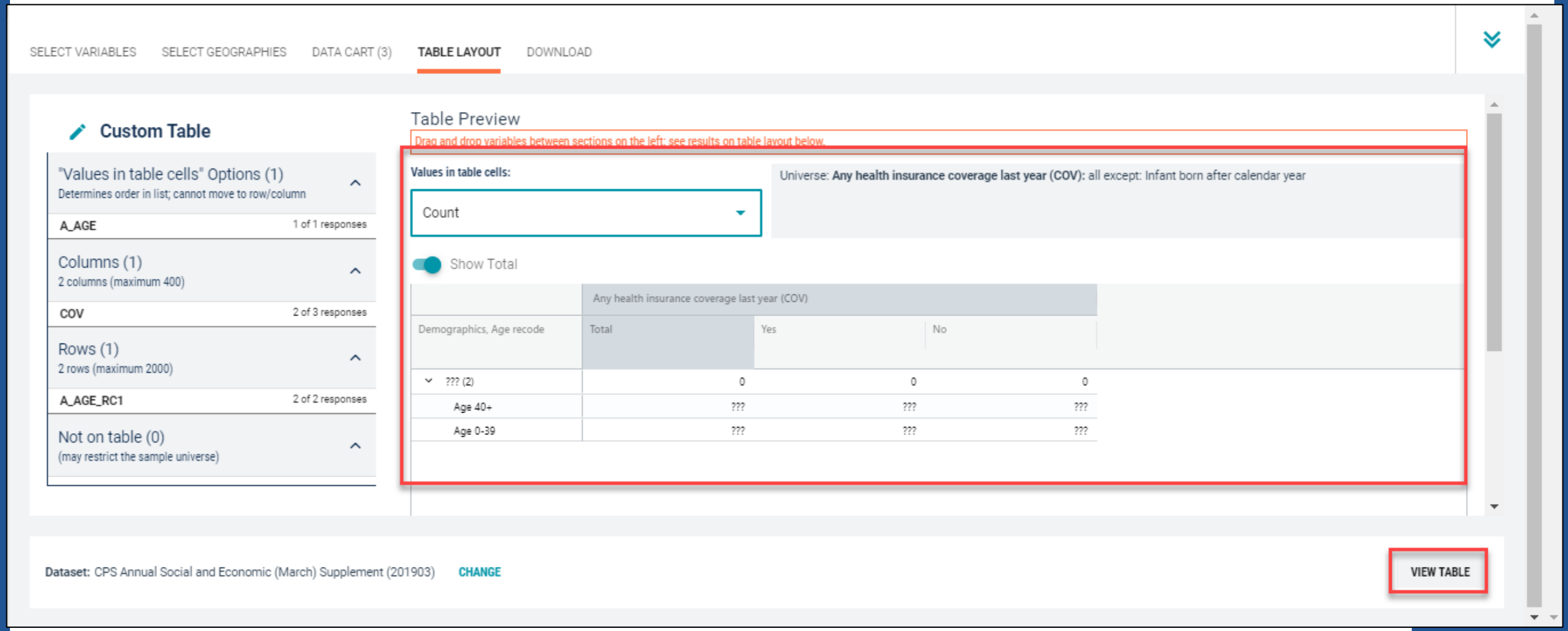
- Edit Table Layout:
  - **Move A_AGE_RC1 to Rows:** This will add categories in our table row for the population 0-39 and 40+



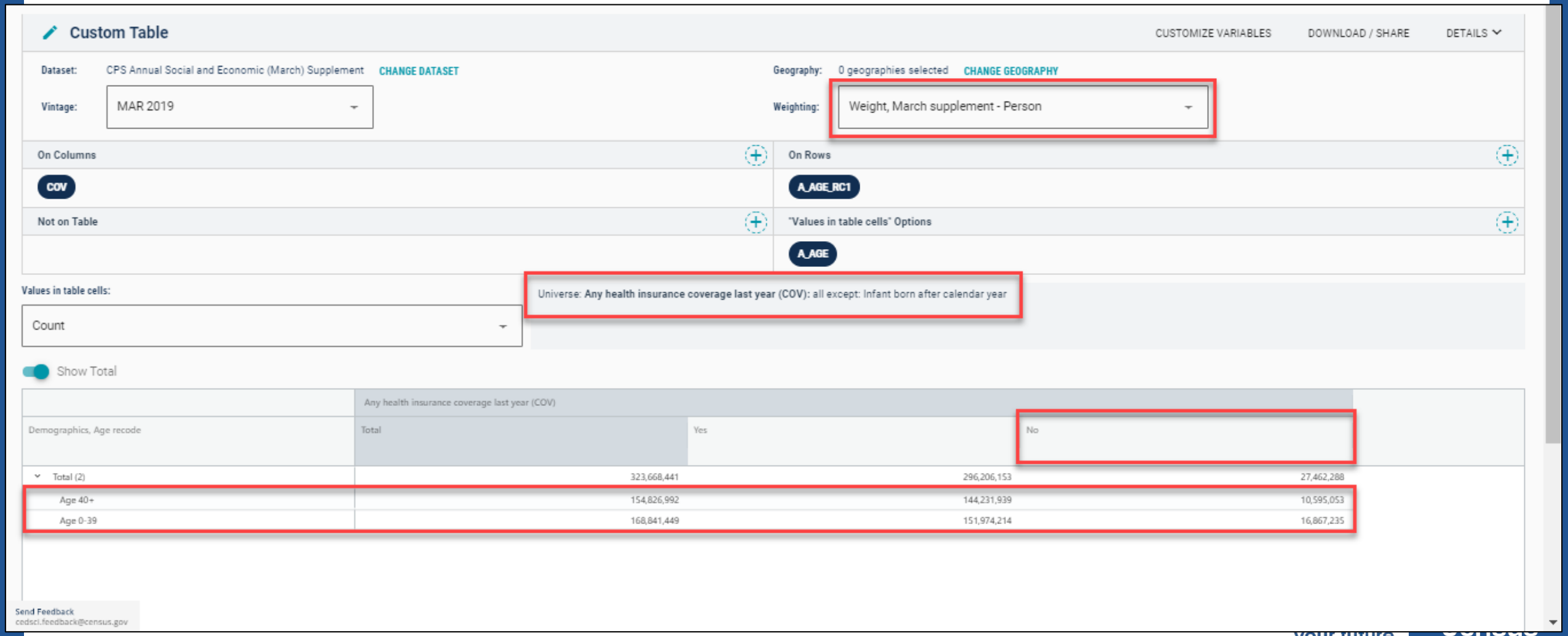
- Choose type of values in table cells
  - Change the “Value in table cells” option from Average of Demographics, Age (A_AGE) to **Count.** This will give you data for the total number of people age 0-39 and 40+ in the United States



- Confirm Table Layout:
  - Confirm table layout and click **View Table** in the lower right



- View Table:
  - There were an estimated 10,595,053 uninsured people age 40 and older in the US in 2018
  - There were an estimated 16,867,235 uninsured people between ages 0 and 39 in US in 2018



Demo

Example 4:

Poverty by Single Year of Age for Children Under 18 in Portland PUMAs

Table B17001 – Poverty By Age

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

Survey/Program: American Community Survey
TableID: B17001

Product: 2018: ACS 1-Year Estimates Detailed Tables
Universe: Population for whom poverty status is determined

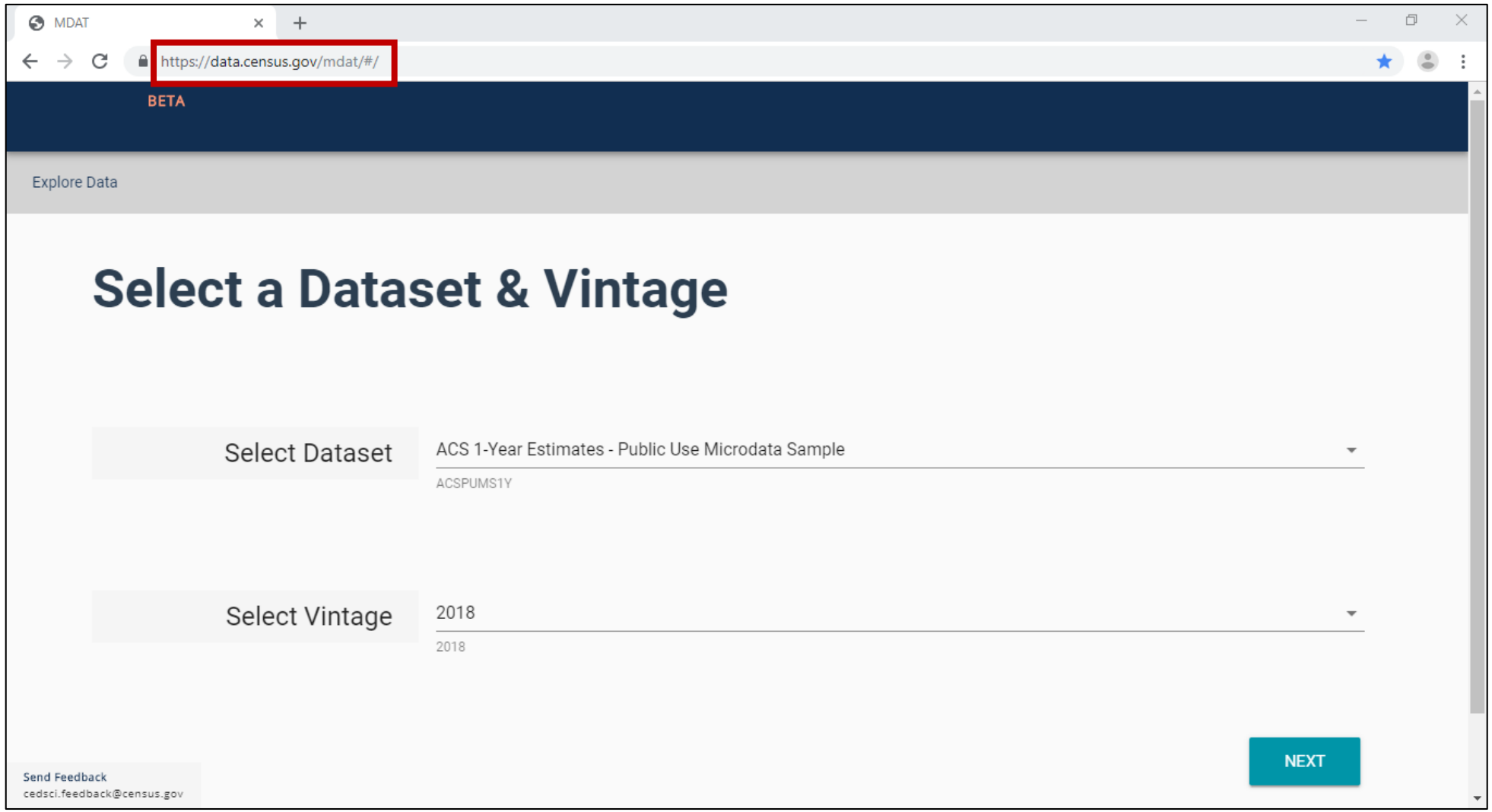
CUSTOMIZE TABLE

	Portland City (North & Northeast) PUMA, Oregon		Portland City (East) PUMA, Oregon	
Label	Estimate	Margin of Error	Estimate	Margin of Error
Total:	121,261	±7,169	125,375	±9,309
Income in the past 12 months below poverty level:	15,045	±4,100	19,926	±4,476
Male:	8,270	±2,454	8,945	±2,548
Under 5 years	557	±528	525	±570
5 years	95	±117	562	±569
6 to 11 years	933	±1,101	930	±917
12 to 14 years	555	±521	688	±627
15 years	0	±207	0	±207
16 and 17 years	37	±85	54	±92
18 to 24 years	1,451	±1,120	504	±365
25 to 34 years	1,645	±1,034	1,389	±536
35 to 44 years	994	±492	1,236	±911
45 to 54 years	580	±367	918	±577
55 to 64 years	977	±682	1,594	±863
65 to 74 years	516	±402	351	±244

Columns | Cell/Column Notes

Prefabricated ACS tables in data.census.gov provide poverty by age, but what if we need more detailed age breakouts?

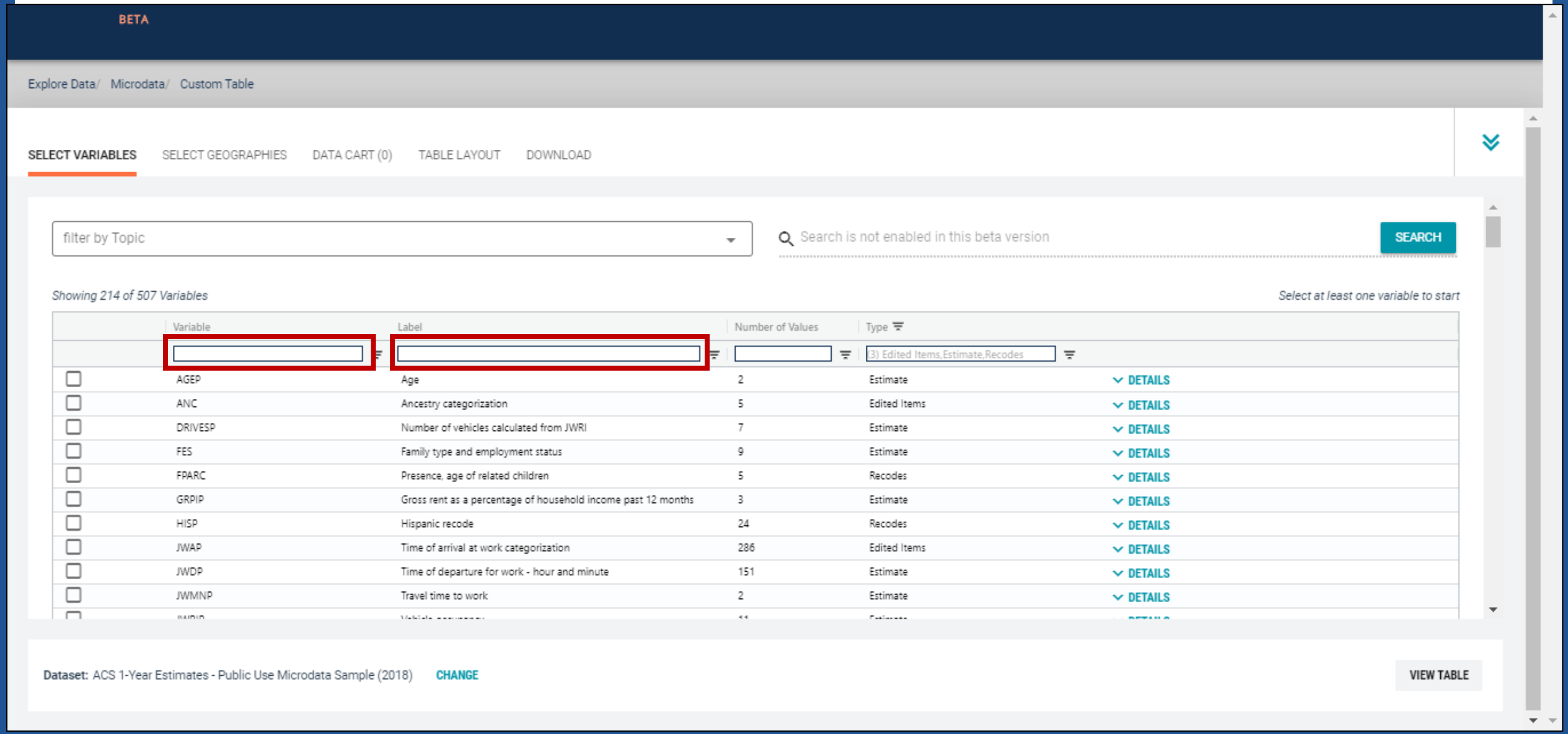
Visit Microdata Access at data.census.gov/mdat



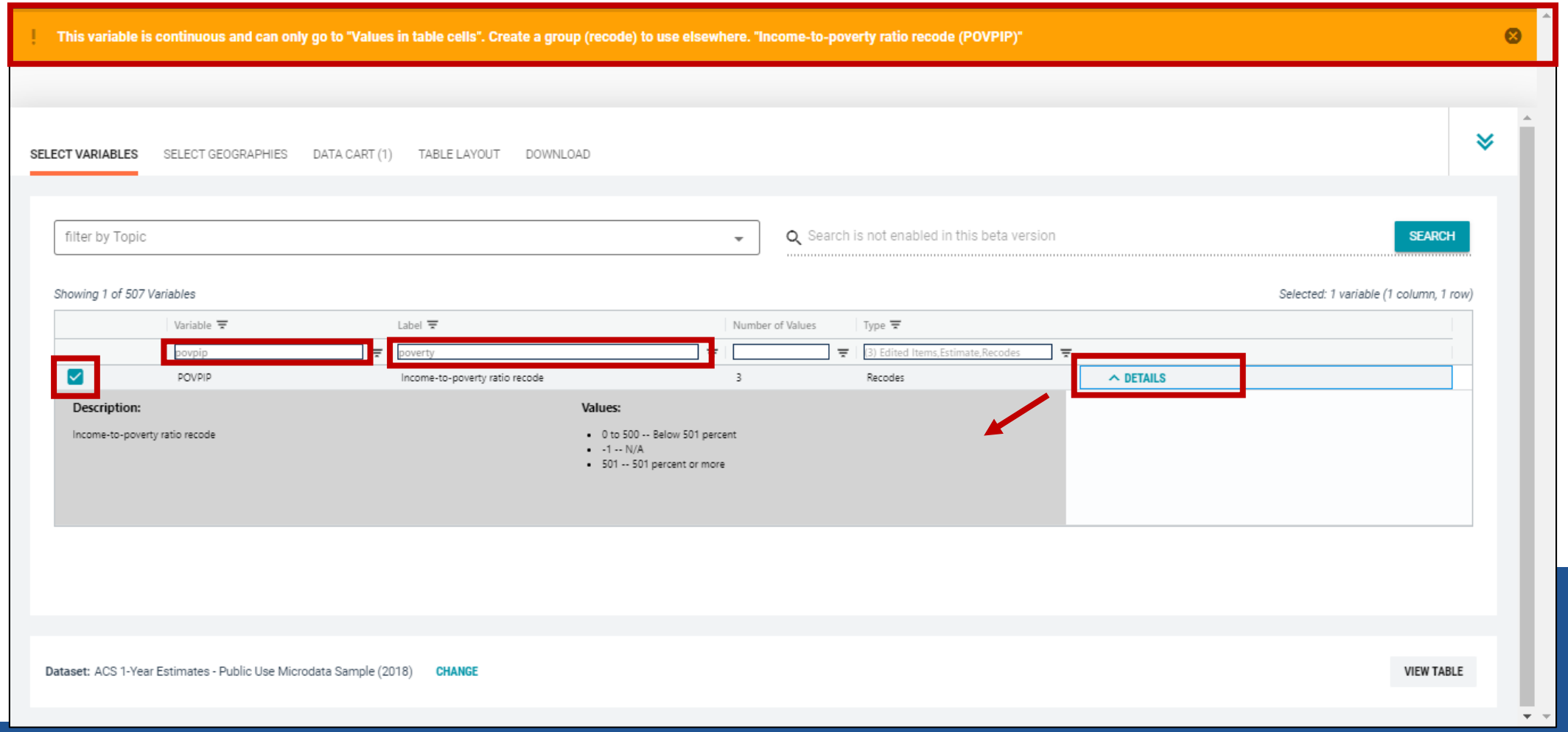
data.census.gov/mdat

- **Choose Dataset and Vintage**:
  - Dataset – **ACS 1-Year Estimates – Public Use Microdata Sample**
  - Vintage – **2018**
  - Click **Next** in the lower right

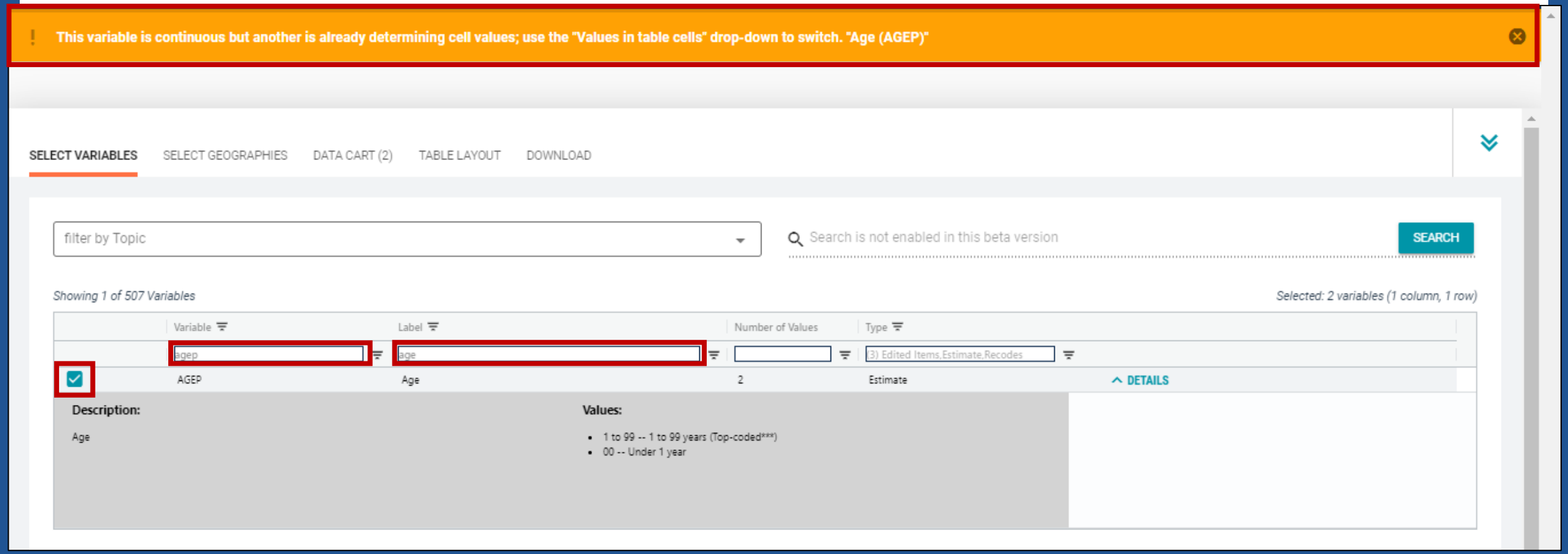
- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest



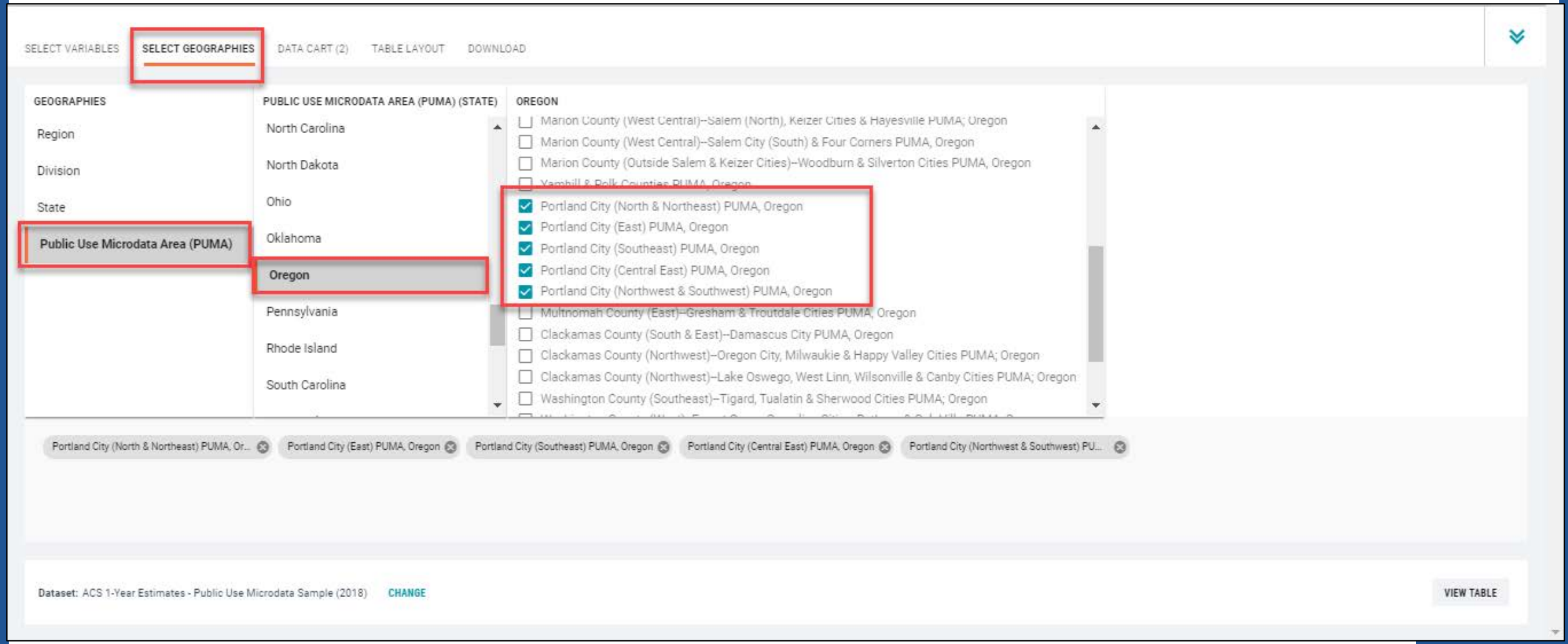
- **Select variable for Poverty**:
  - Type “POVPIP” in the Variable search box or type “Poverty” in the label search box
  - Check the box to the left of POVPIP to add the variable to your data cart
  - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table.



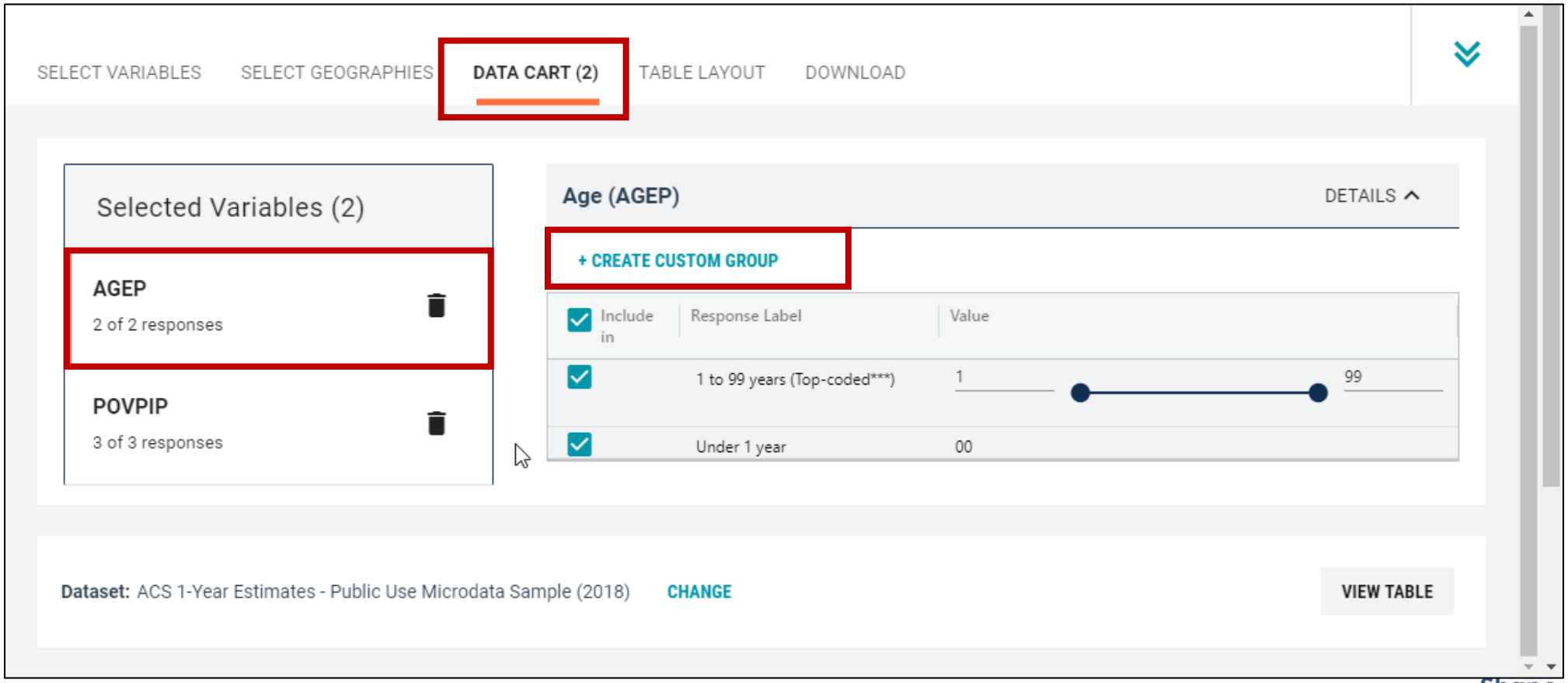
- **Select variable for Age**:
  - Type “AGEP” in the Variable search box or type “Age” in the label search box
  - Check the box to the left of AGEP to add the variable to your data cart
  - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (you will do this action in the Data Cart)



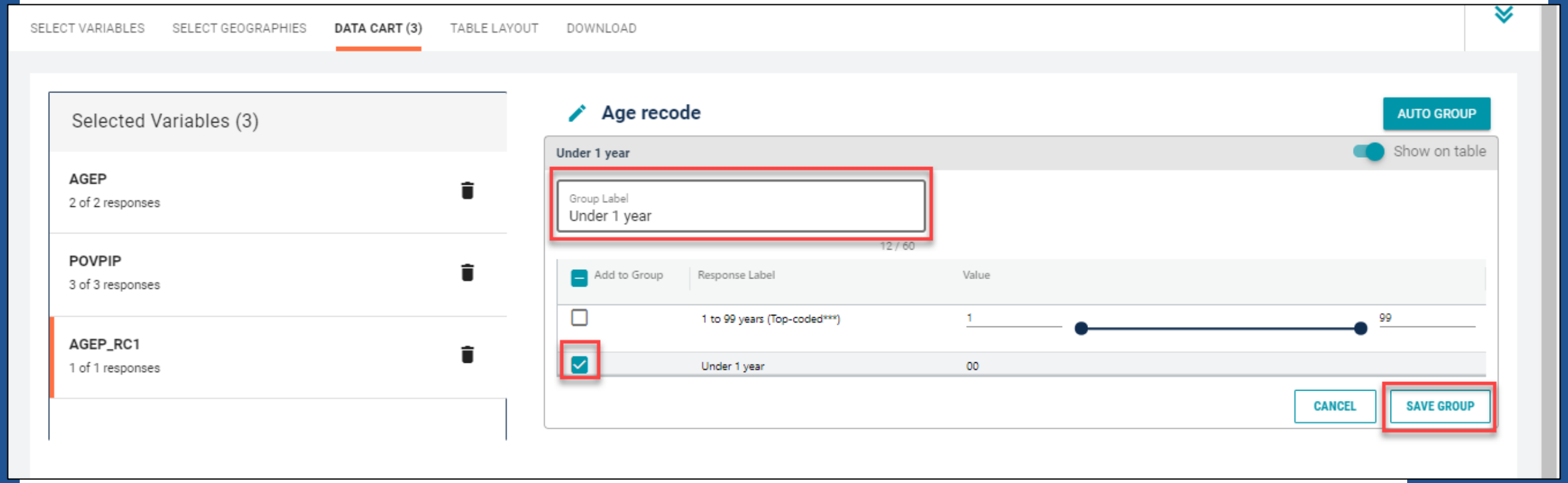
- **Select geography**:
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **Public Use Microdata Area (PUMA)** and **Oregon**
  - Check the boxes for the five **Portland City PUMAs**



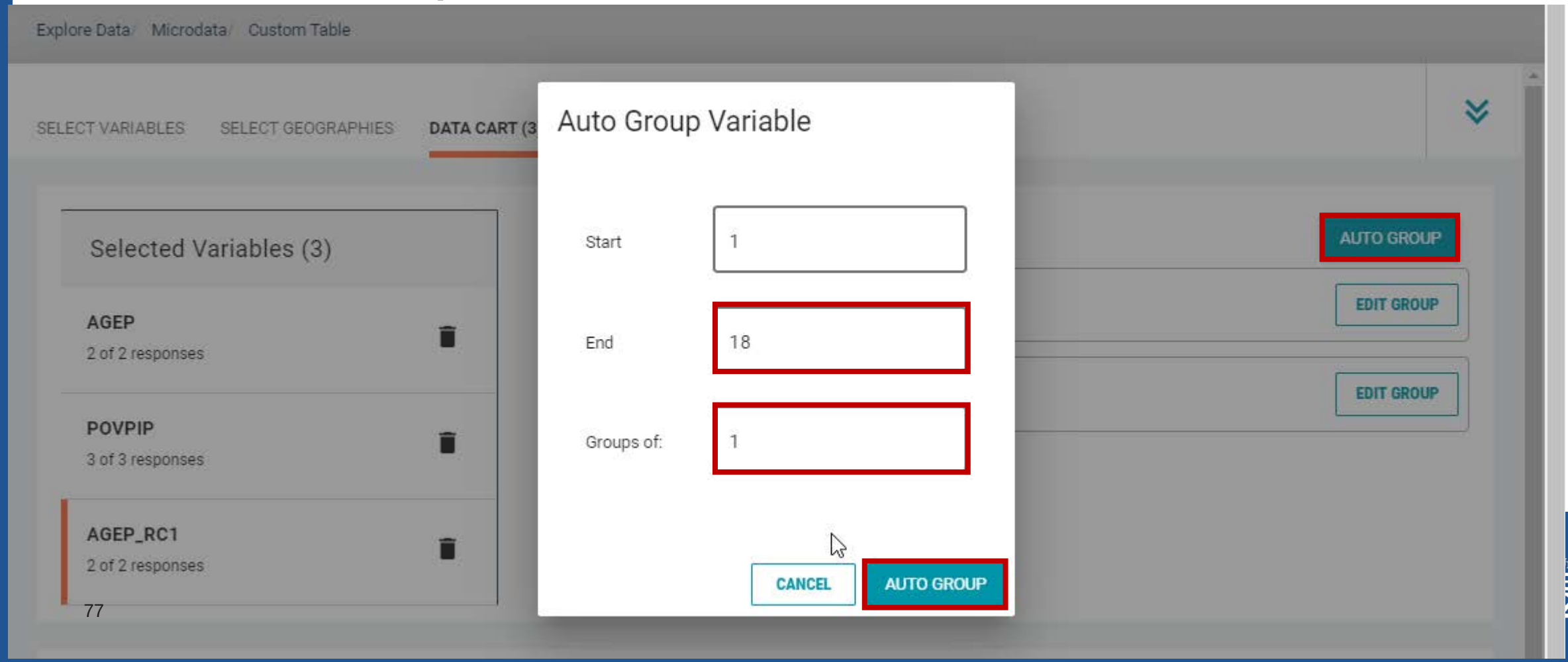
- **Categorize (recode) your age variable**:
  - Click the **Data Cart** tab
  - Click the **AGEP** variable on the left
  - Click **Create Custom Group** to begin specifying your age categories (e.g. 0, 1, 2,..18)



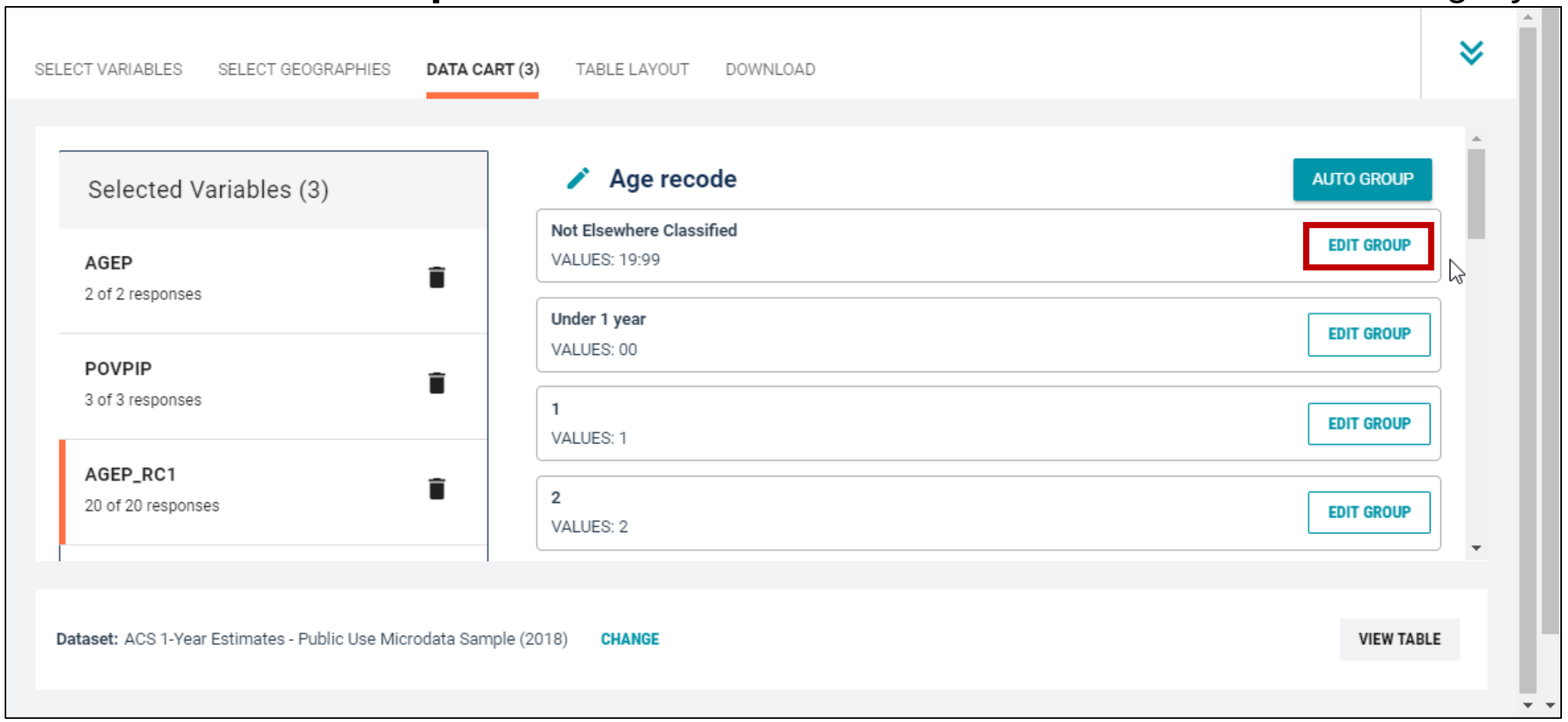
- Categorize (recode) your age variable:
  - Click into **Group label** and type a label for the first category you want to create (e.g. Under 1 year)
  - Check the box next to **Under 1 Year**
  - Click **Save Group**



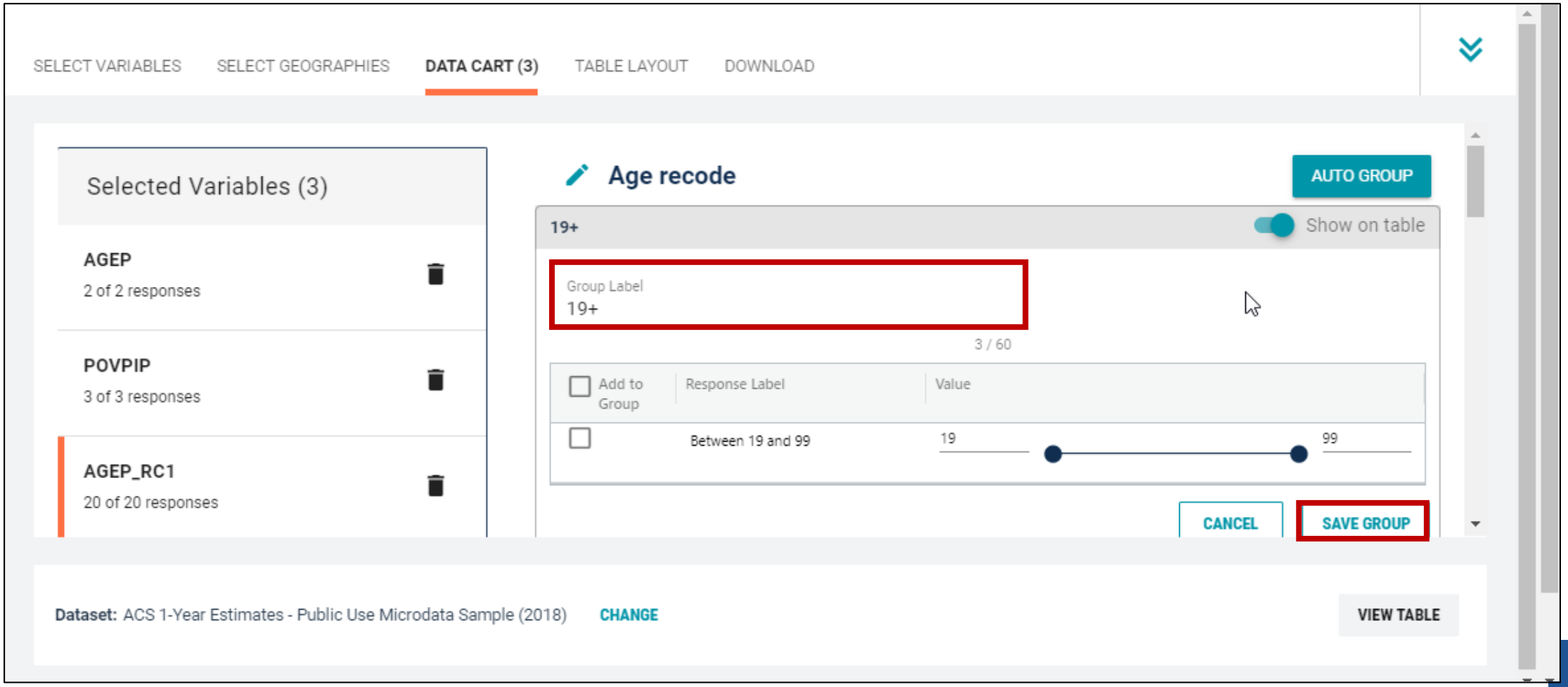
- Categorize (recode) your age variable:
  - Click into **Auto Group** in the upper right
  - In the pop-up box, edit the “End” range to **18** and confirm that Groups of” is set to **1** to get single year of age
  - Click **Auto Group**



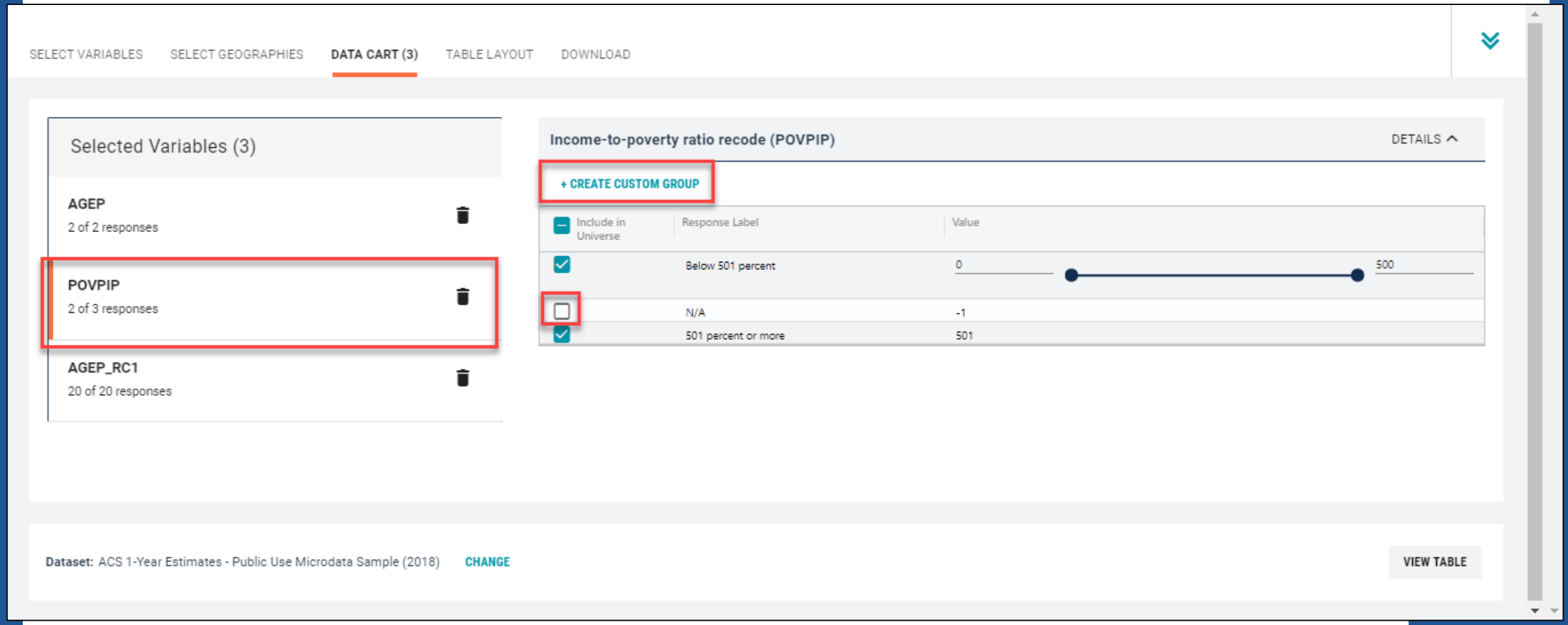
- Categorize (recode) your age variable:
  - You have now created categories for age 0, 1, 2, ….18. Ages 19-99 are in the group “Not elsewhere classified”
  - Click **Edit Group** for “Not Elsewhere Classified” to rename the category



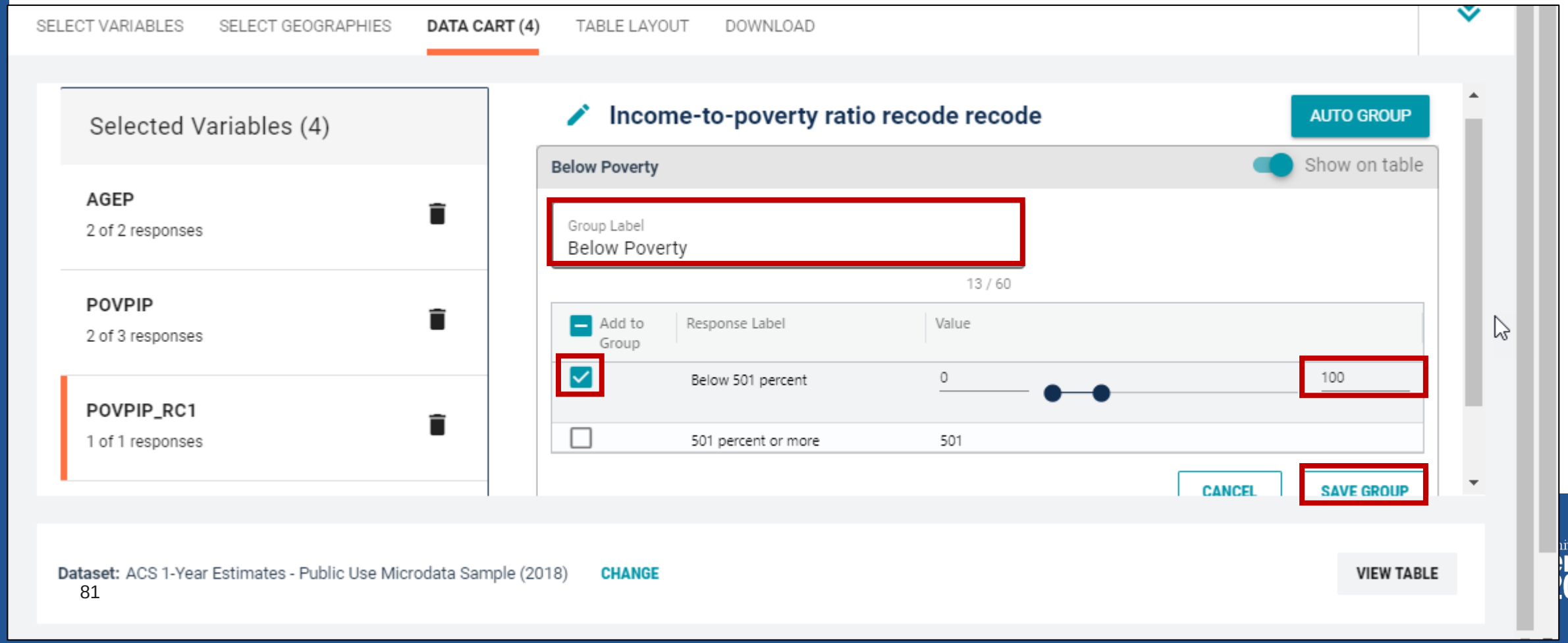
- Categorize (recode) your age variable:
  - Click into **Group Label** and rename the category (e.g. 19+)
  - Click **Save Group** in the lower right



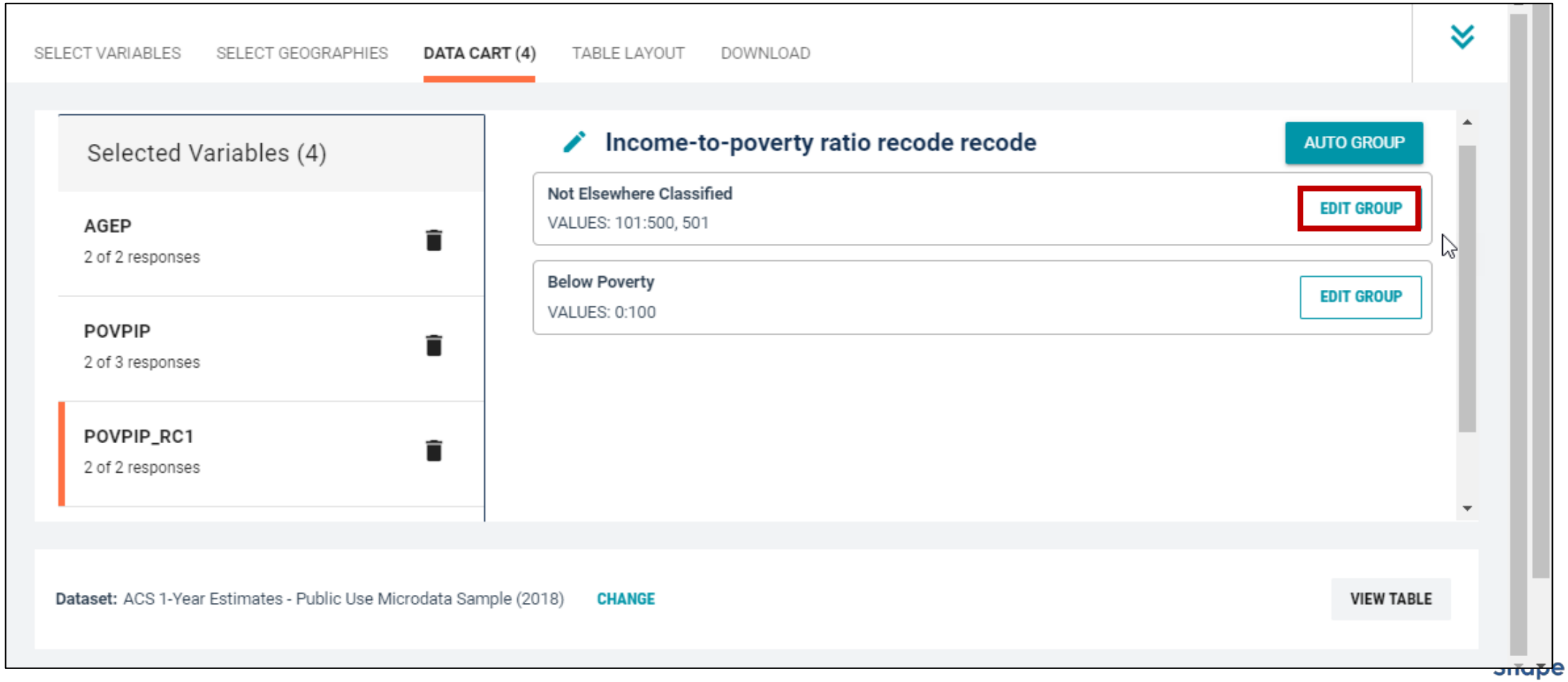
- **Categorize (recode) your poverty variable**:
  - Click the **POVPIP** variable on the left
  - Uncheck the box for **NA** (people not in the poverty universe)
  - Click **Create Custom Group** to begin specifying income-to-poverty ratios



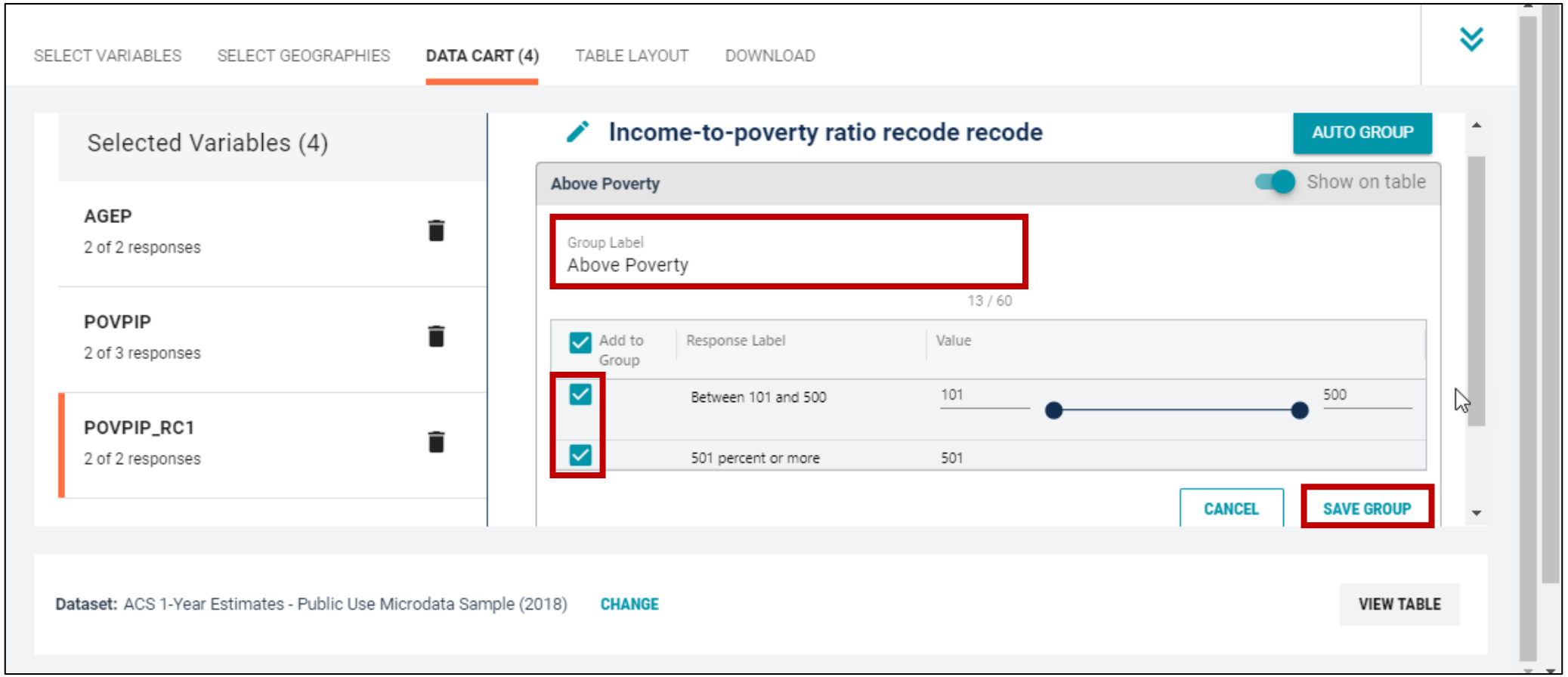
- Categorize (recode) your poverty variable:
  - Click into **Group label** and type a label for the first category you want to create (e.g. Below Poverty)
  - Check the box next **Below 501 Percent**
  - Edit the end range of age from 500 to **100** and Click **Save Group**



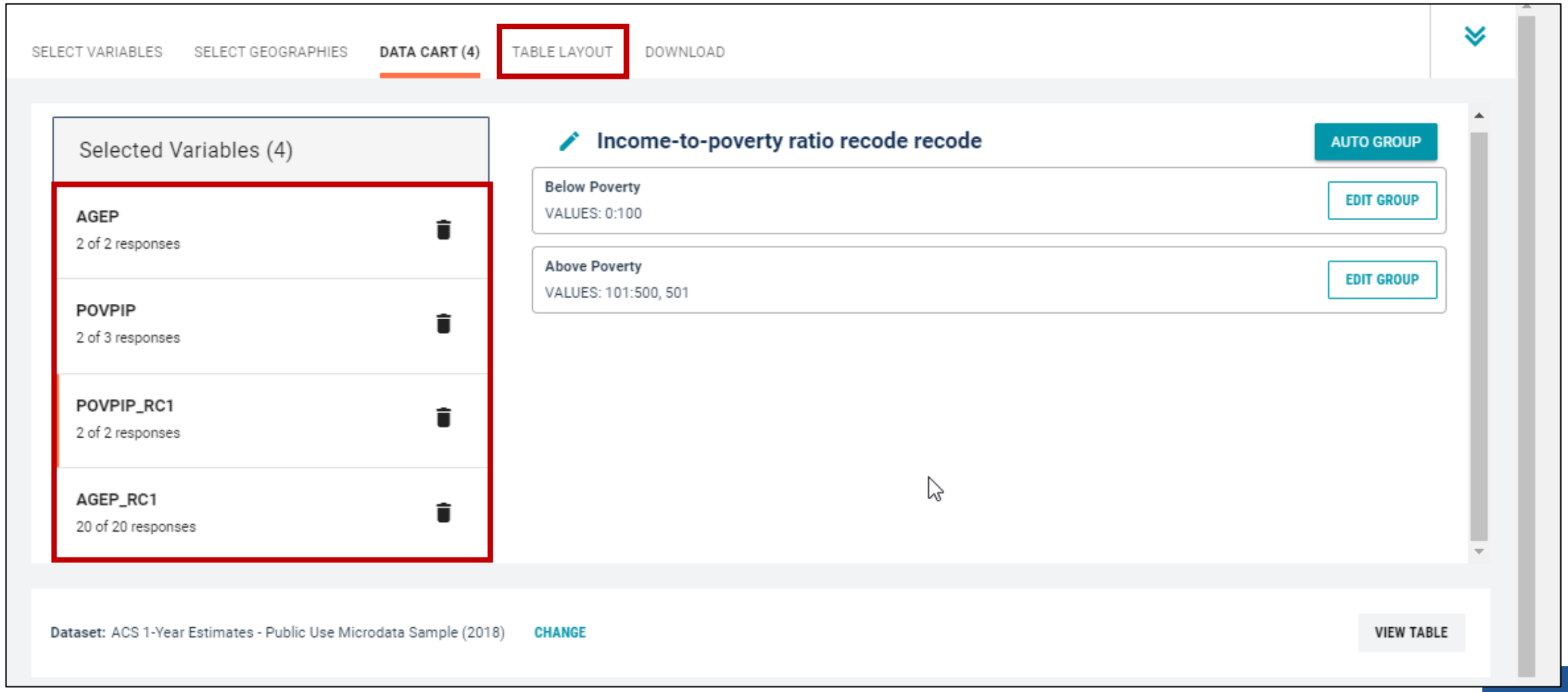
- Categorize (recode) your poverty variable:
  - You have now created categories for below poverty. People above poverty are in the group “Not elsewhere classified”
  - Click **Edit Group** for “Not Elsewhere Classified” to rename the category



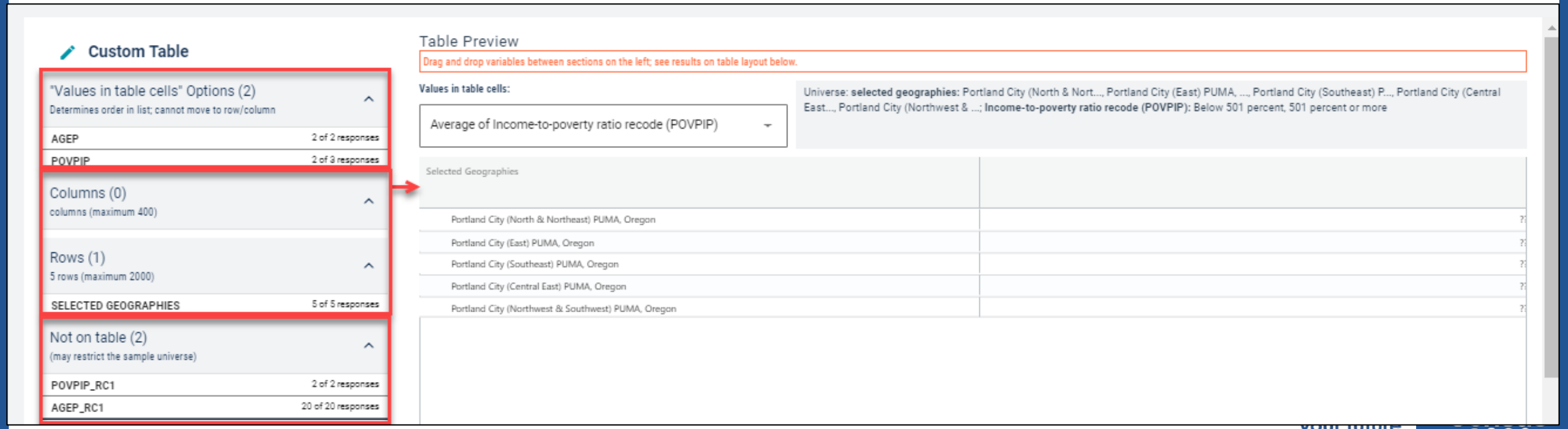
- Categorize (recode) your poverty variable:
  - Click into **Group Label** and rename the category (e.g. Above Poverty)
  - Check the boxes for **Between 101 and 500** and **501 percent or more**
  - Click **Save Group** in the lower right



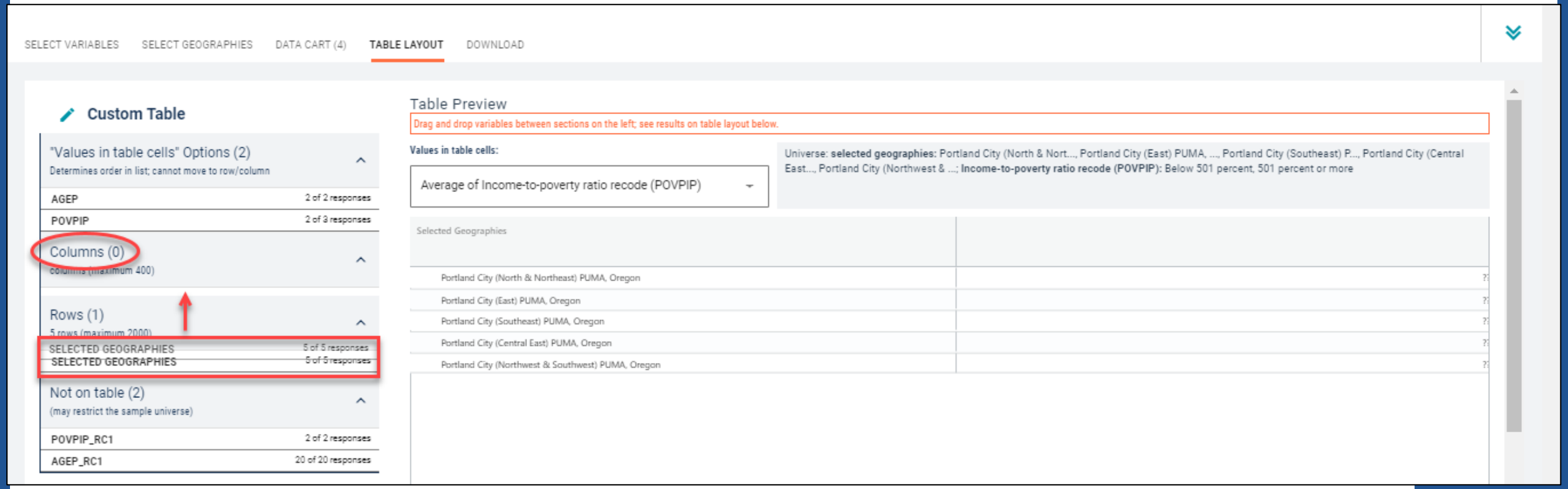
- Confirm variable selections
  - Confirm variable selections and click the **Table Layout** tab



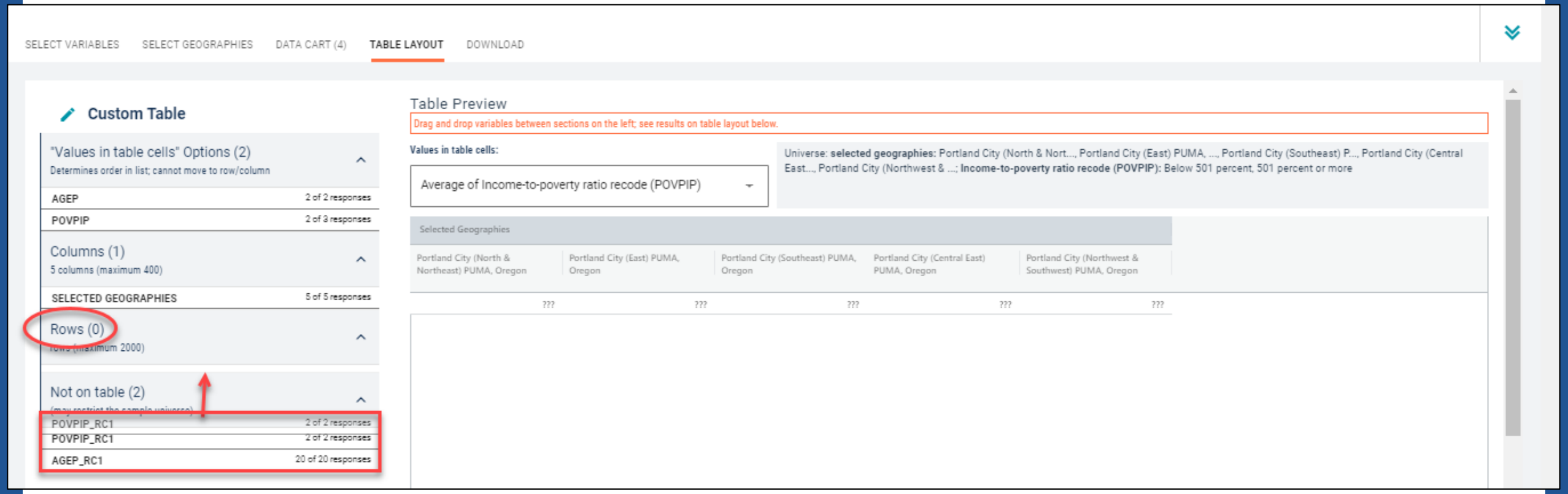
- View variable placement in the default table layout:
  - **Values in table cells Options –** When variables are shown here, you have more options to choose from in the drop down menu for “Values in table cells”
  - **Columns/Rows – Variables will be shown in the table.**
  - **Not on Table – Can restrict the universe.** By default, AGEP_RC1 is not on the table, and it does not restrict the universe because the recode includes ages for all people. The table is restricted to people in the poverty universe because we unchecked the box for “NA”



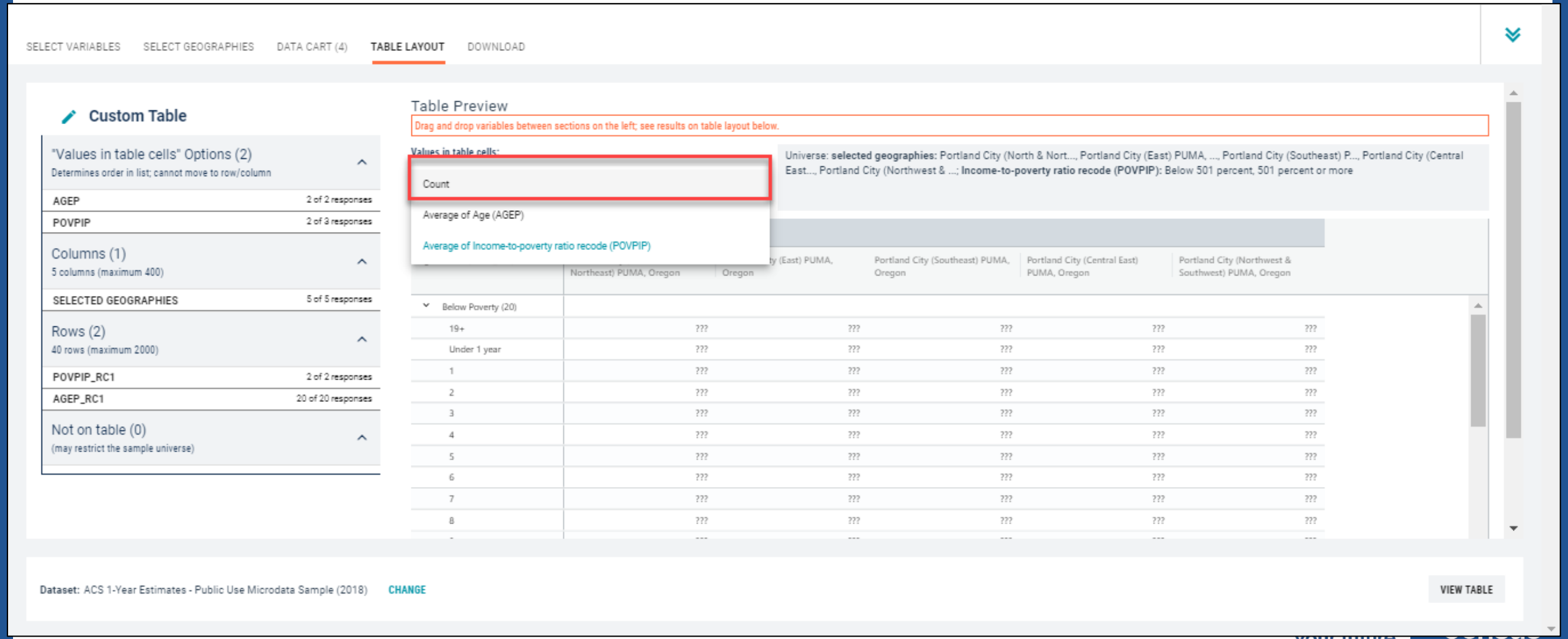
- Edit Table Layout:
  - **Move Selected Geography to Columns:**
    - **Click, hold and drag Selected Geographies on the left side of the page up to the columns heading.** This will give you a table layout similar to prefabricated ACS tables on data.census.gov, where each geography has its own column



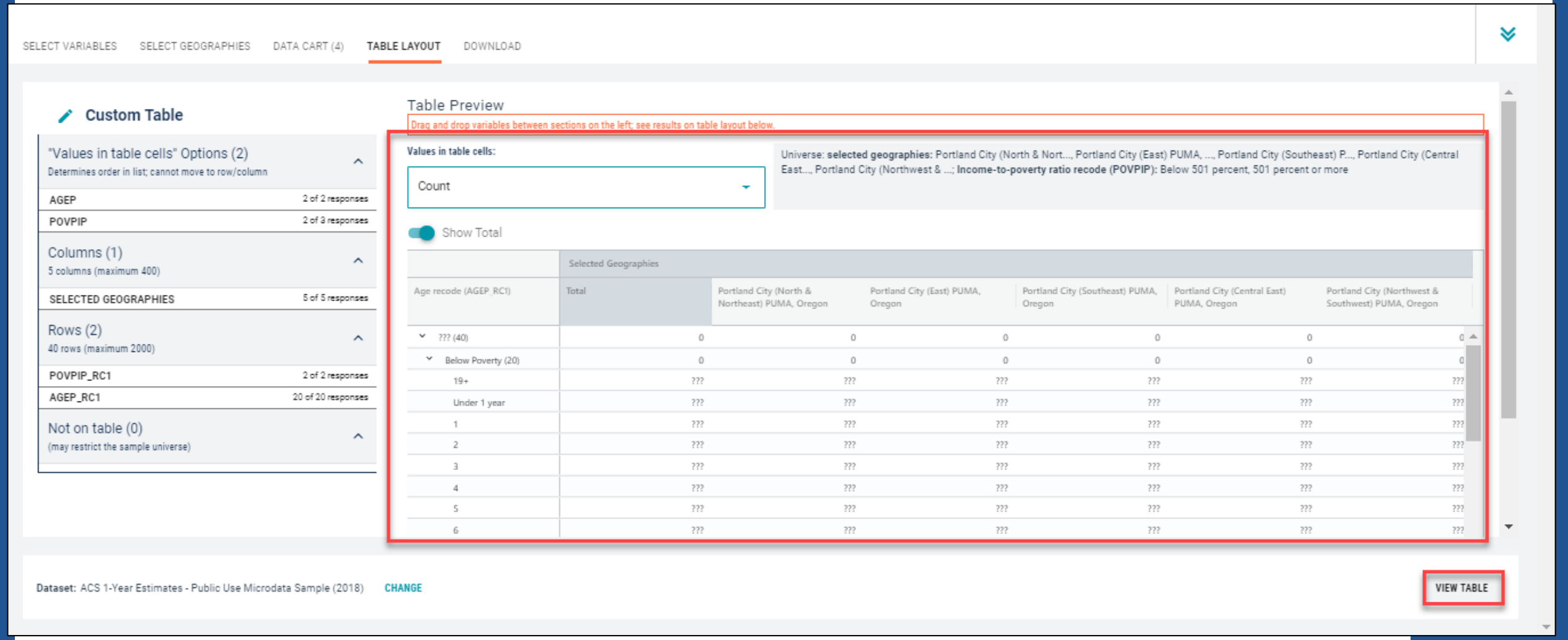
- Edit Table Layout:
  - **Move POVPIP_RC1 to Rows:**
    - **Click, hold and drag POVPIP_RC1 on the left side of the page up to the rows heading. Repeat this for AGEP_RC1.**



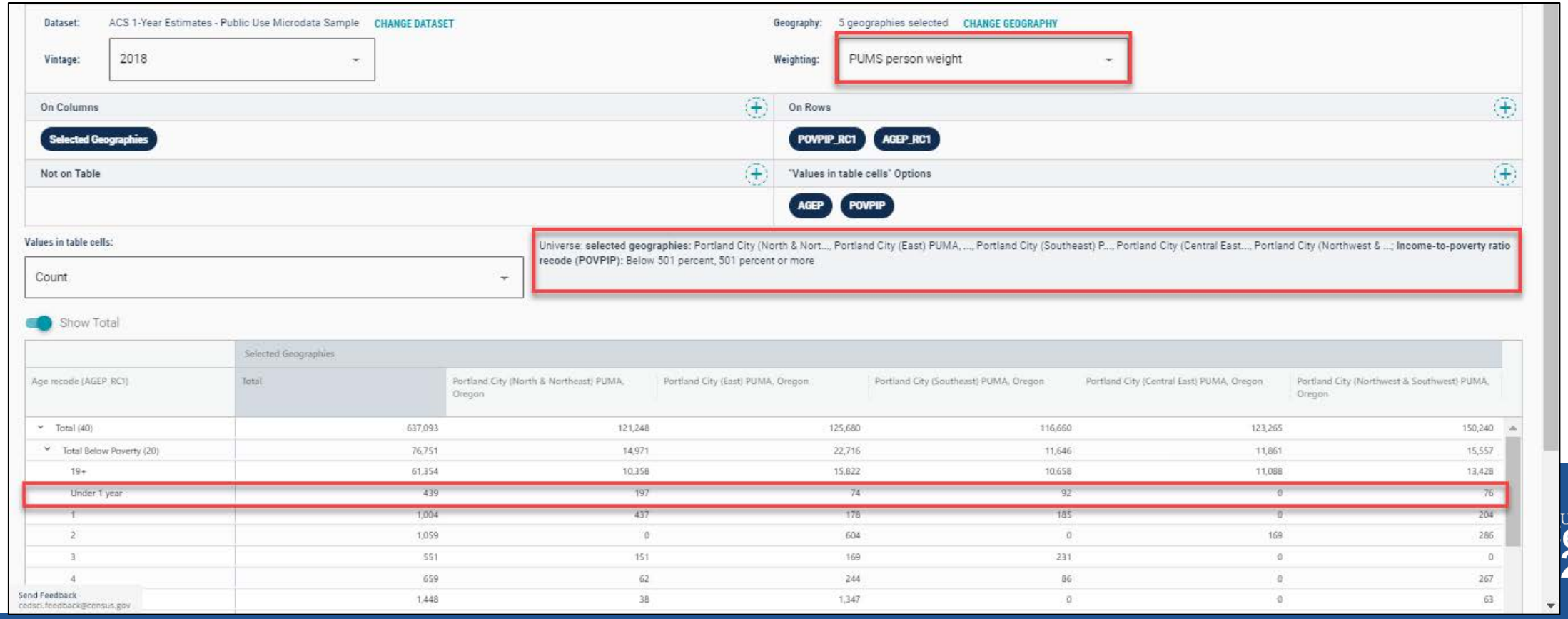
- Choose type of values in table cells
  - Change the “Value in table cells” option from Average of Income-to-poverty ratio recode (POVPIP) to **Count** for data for the total number people in poverty by age.



- Confirm Table Layout:
  - Confirm table layout and click **View Table** in the lower right



- View Table:
  - The estimated number of people under the age of 1 in poverty in 2018 is:
    - Portland City (North & Northeast) PUMA, Oregon: 197
    - Portland City (East) PUMA, Oregon: 74
    - Portland City (Southeast) PUMA, Oregon: 92
    - Portland City (Northwest & Southwest) PUMA, Oregon: 76



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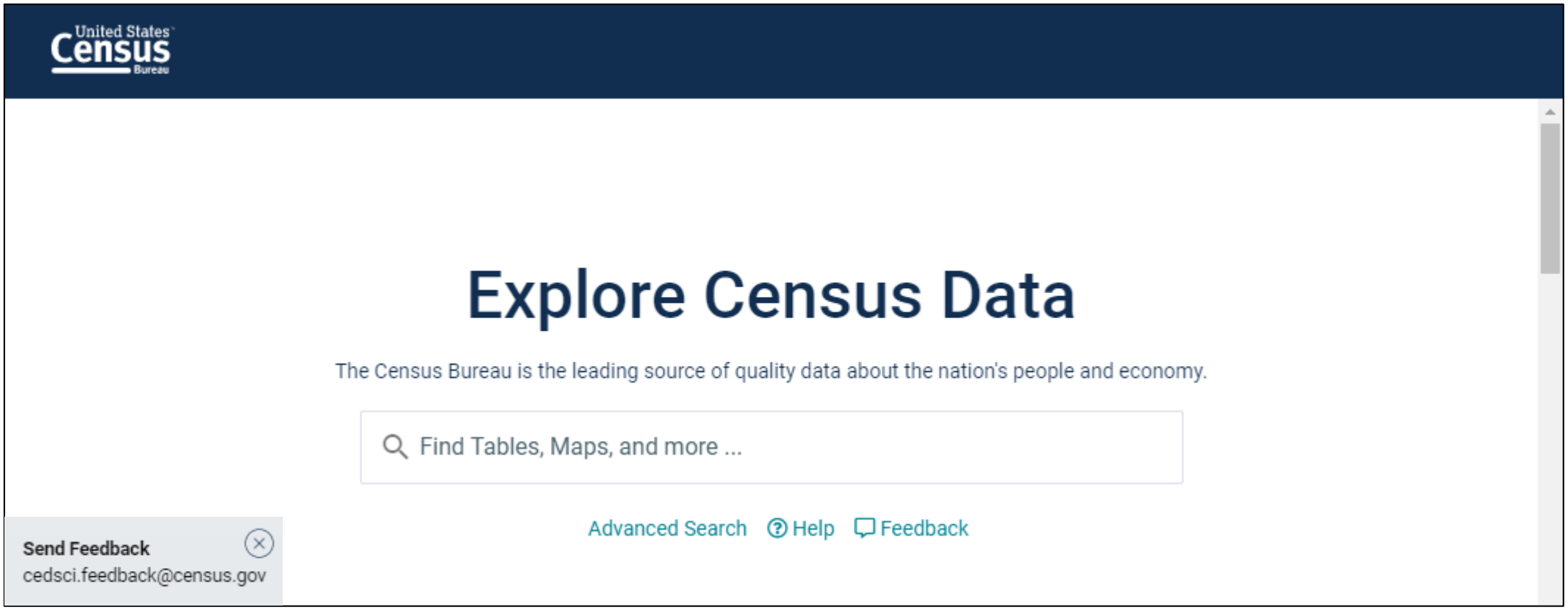

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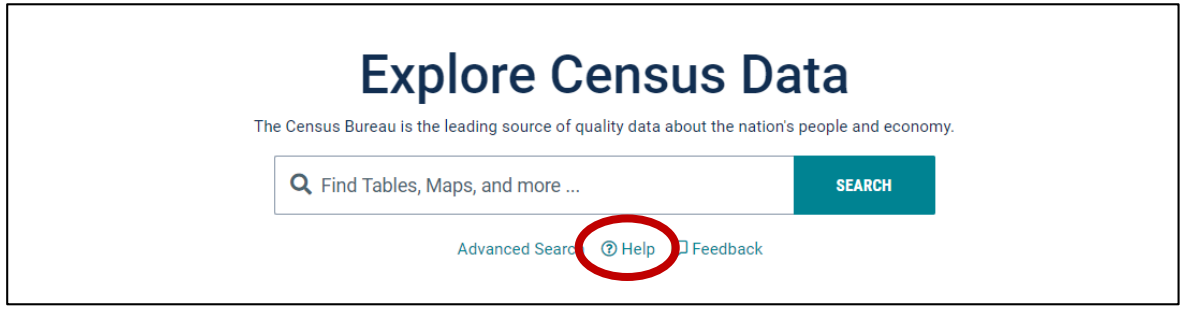

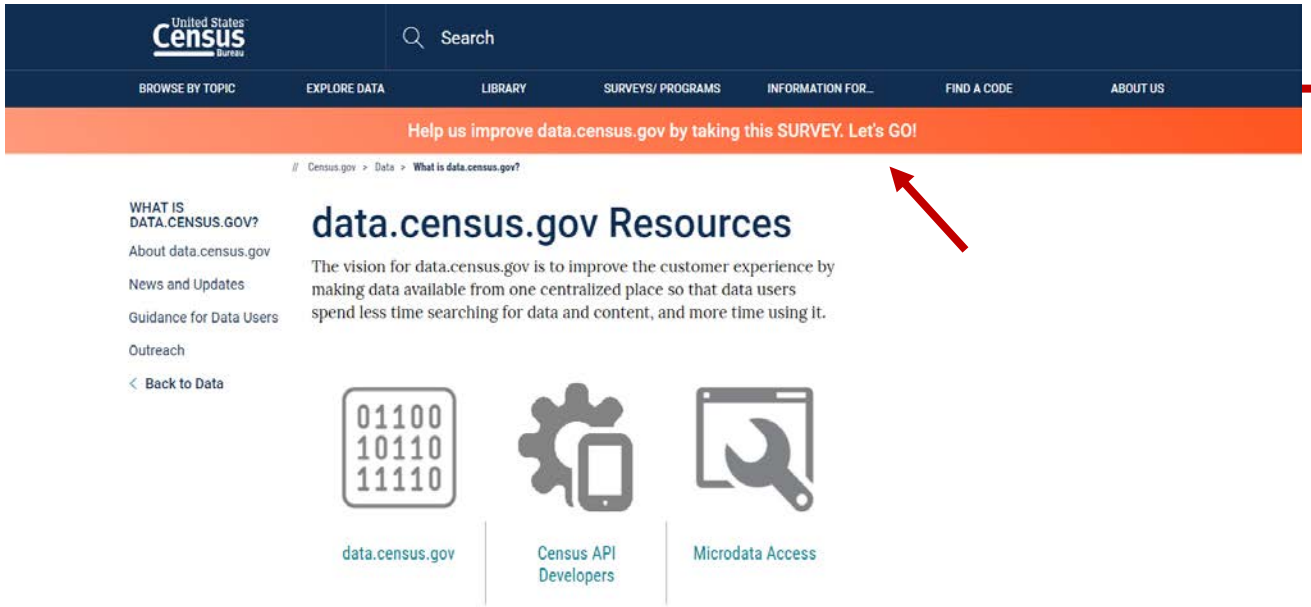

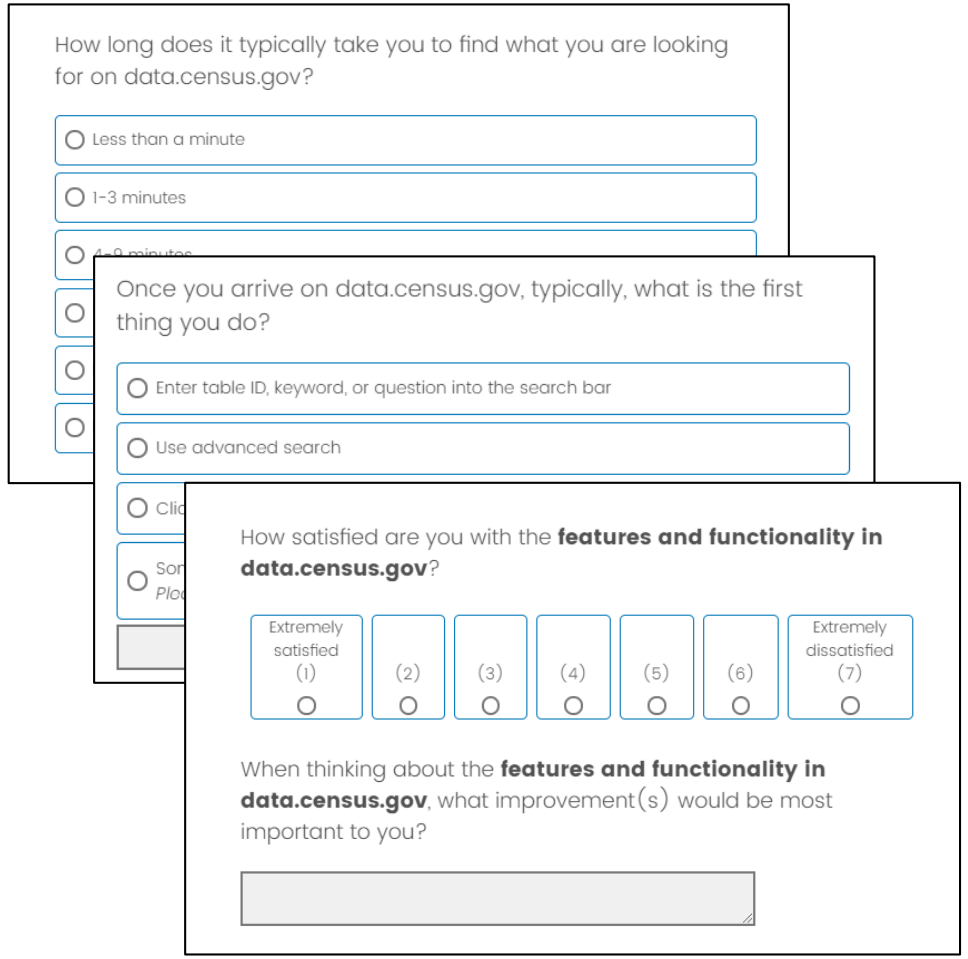

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How-to Materials for Using the Microdata Access

Do you have questions on how to use Microdata Access? Check out our step-by-step guidance to learn how to use Microdata Access to create your own tabulations.

- Using Microdata Access: With ACS 1-Year Estimates – Public Use Microdata Sample [1.5 MB]
- Using Microdata Access: How To Create Poverty Estimates From The CPS ASEC [2.4 MB]

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