Transition to Microdata Access

Texas Data Users Meeting
July 28, 2020

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Center for Enterprise Dissemination (CED)

U.S. Census Bureau

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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

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Microdata = PUMS Files

Public **U**se **M**icrodata

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

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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

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."

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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)

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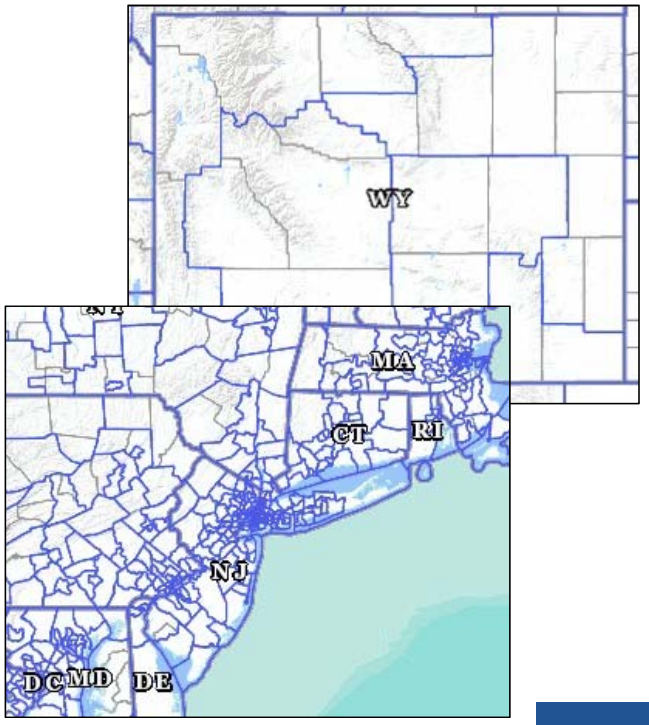
Public Use Microdata Areas (PUMA)

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.

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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

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Demo

Example 1:

Hispanic population 50 and over in Texas

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Table B01001I – Sex by Age (Hispanic or Latino)

	Texas	
	Estimate	Margin of Error
Total:	11,368,844	*****
Male:	5,719,063	+/-4,985
Under 5 years	510,343	+/-3,337
5 to 9 years	495,317	+/-11,471
10 to 14 years	558,154	+/-11,660
15 to 17 years	302,986	+/-3,198
18 and 19 years	203,571	+/-3,212
20 to 24 years	472,076	+/-5,057
25 to 29 years	461,426	+/-3,731
30 to 34 years	437,711	+/-3,616
35 to 44 years	816,741	+/-5,471
45 to 54 years	645,484	+/-4,204
55 to 64 years	448,511	+/-2,144

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.

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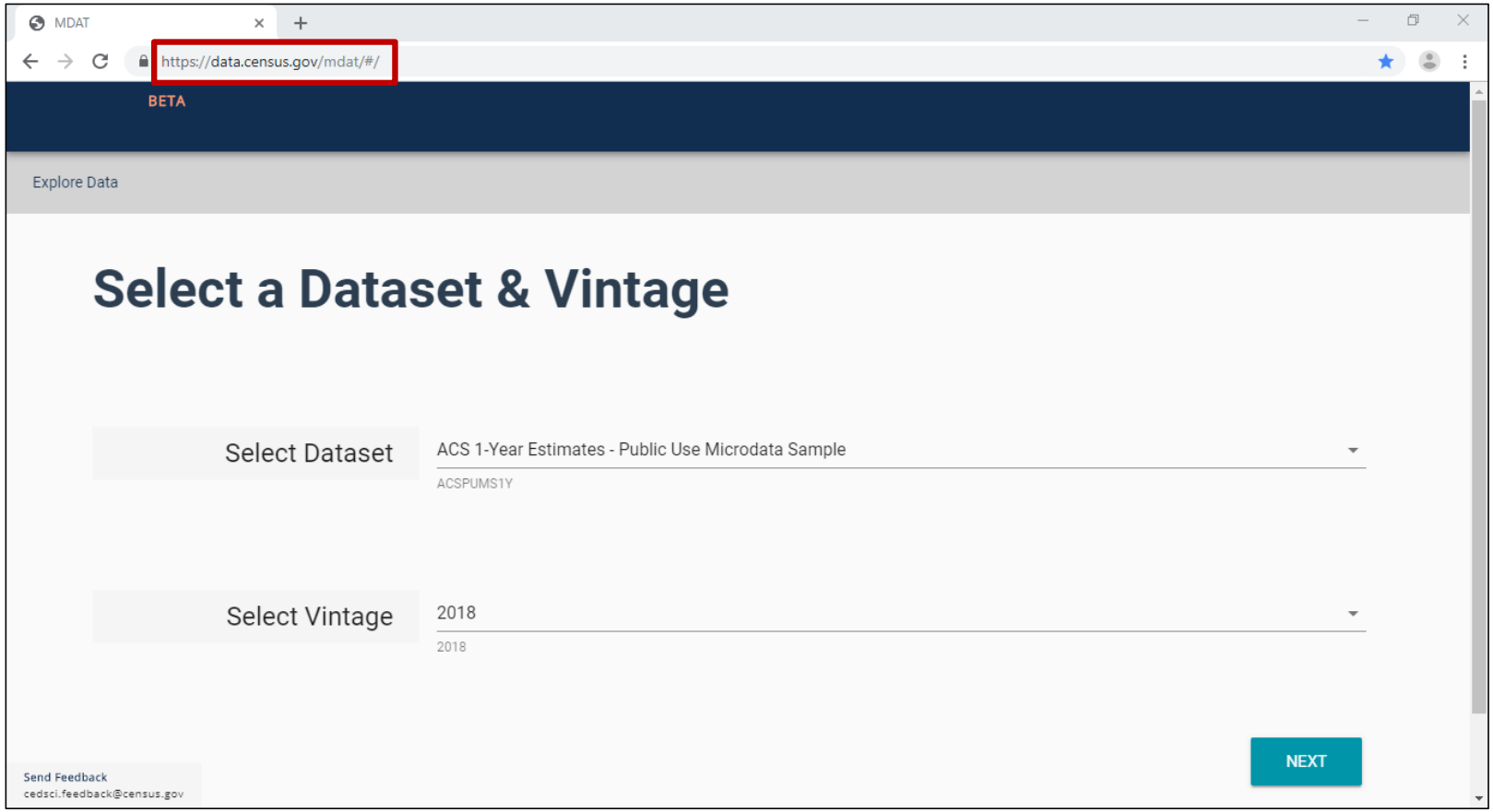
- **Visit Microdata Access at data.census.gov/mdat**



data.census.gov/mdat

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

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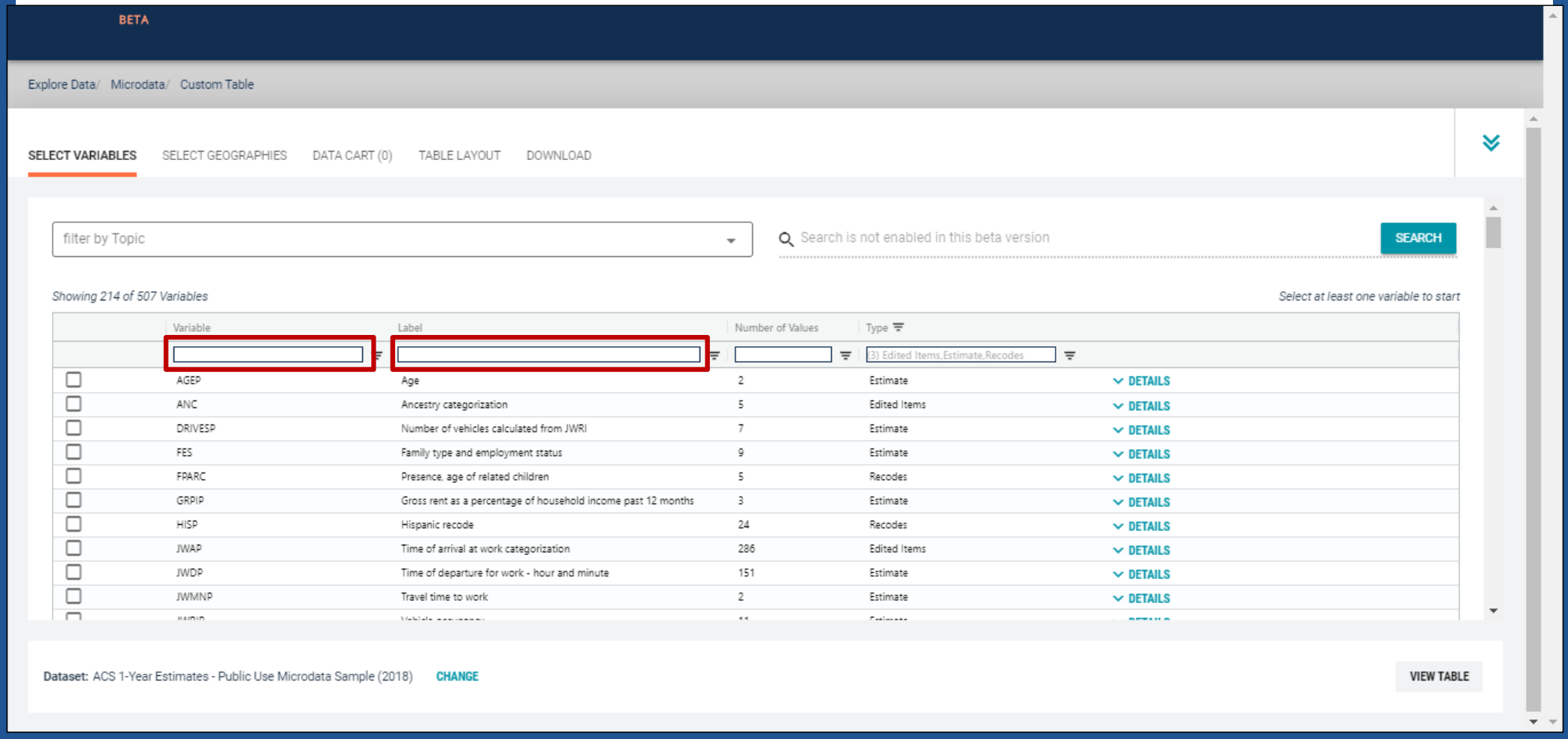
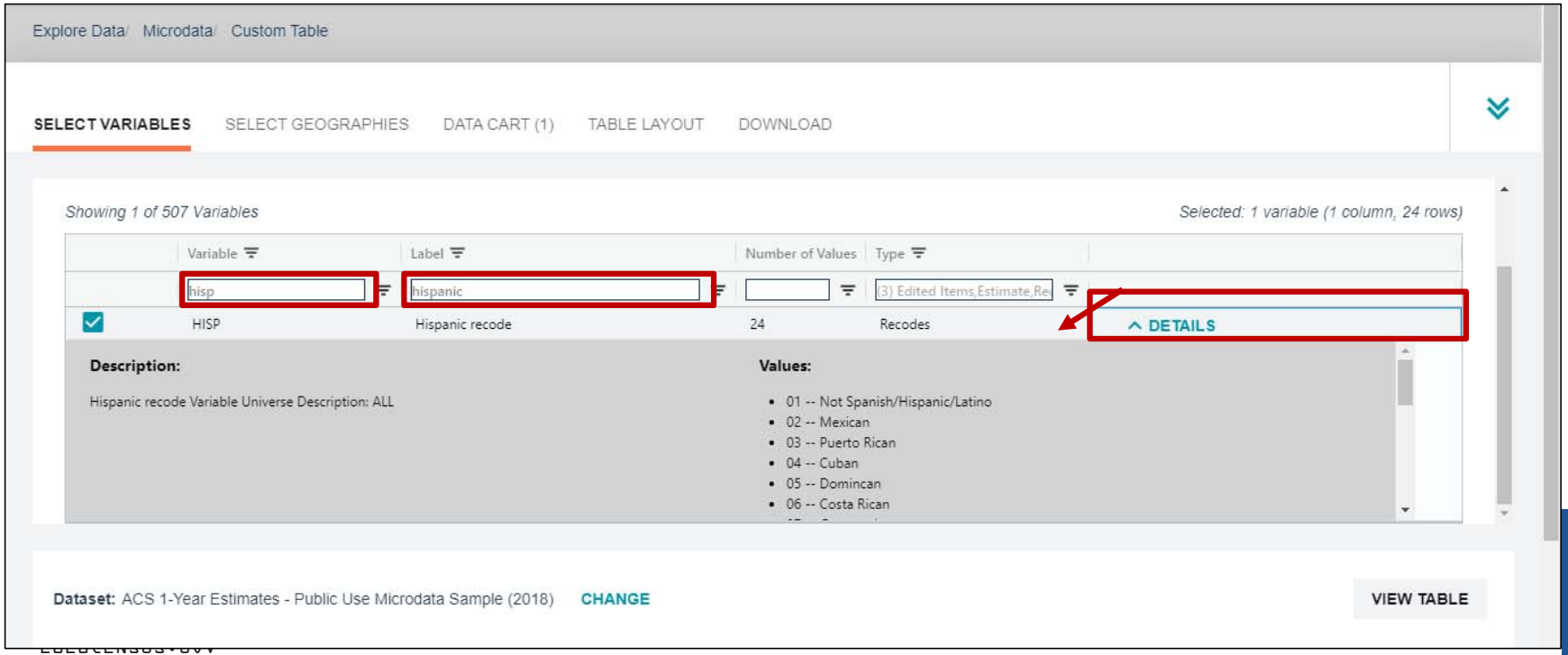
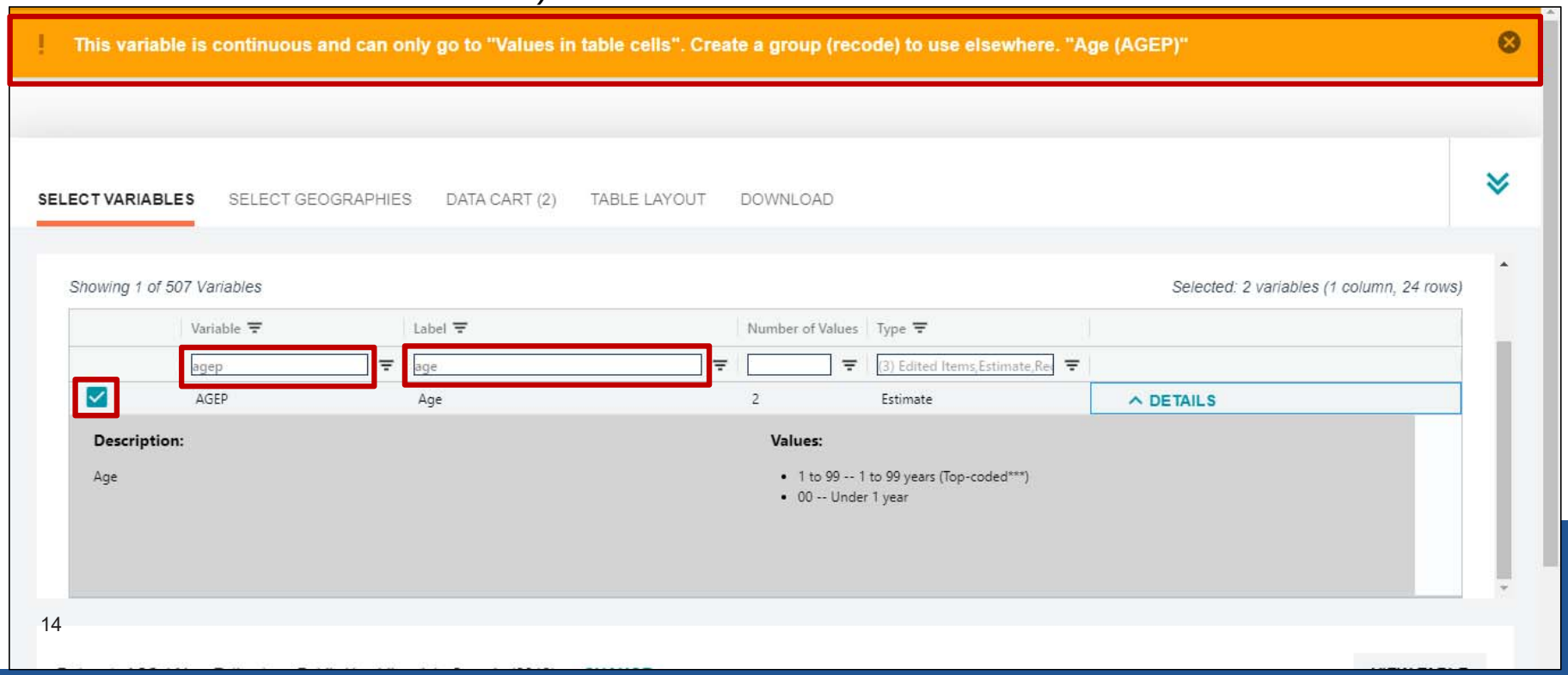
- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest



- **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 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)



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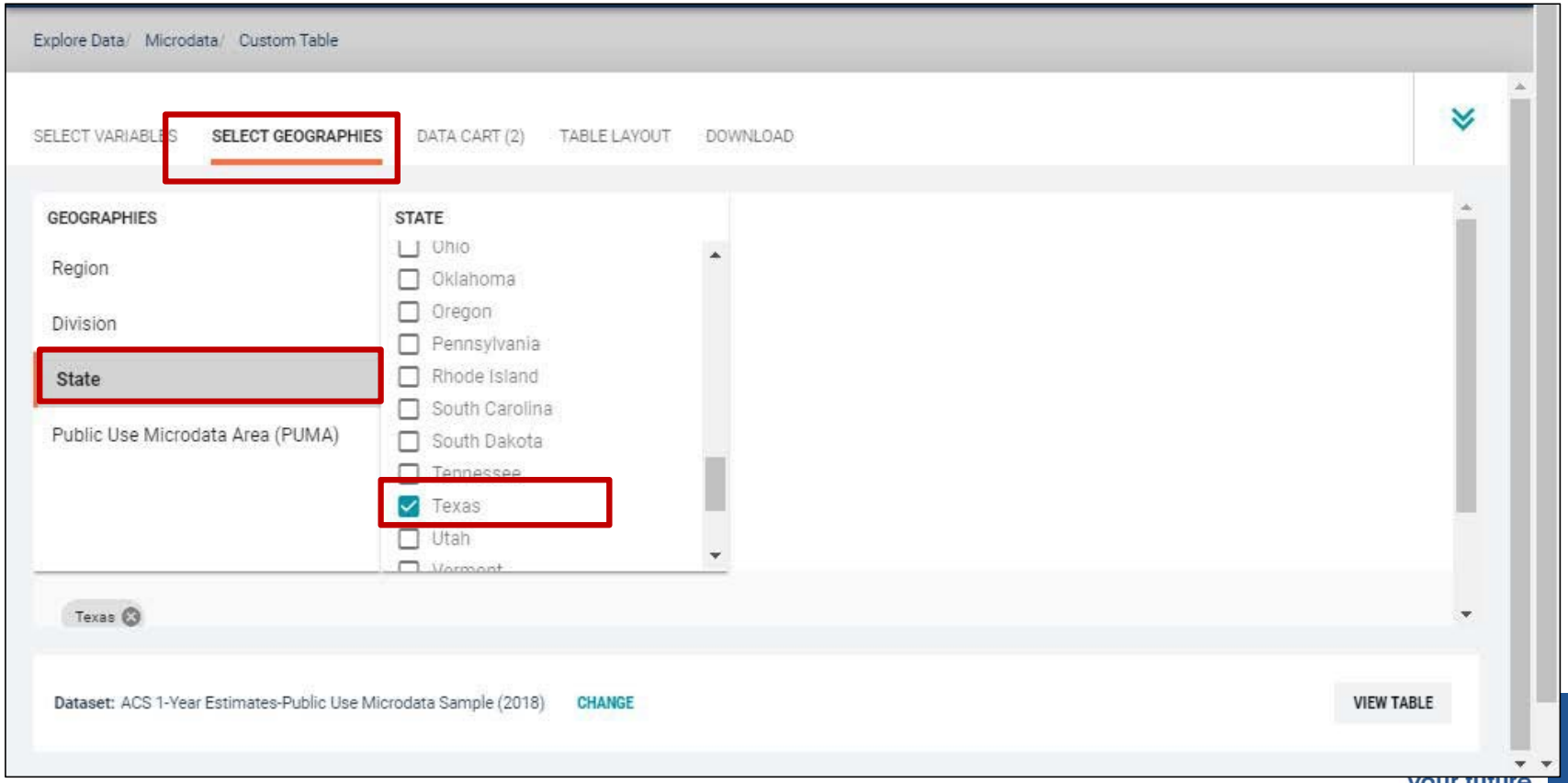
- **Select geography**:
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **State** and check the box for **Texas**



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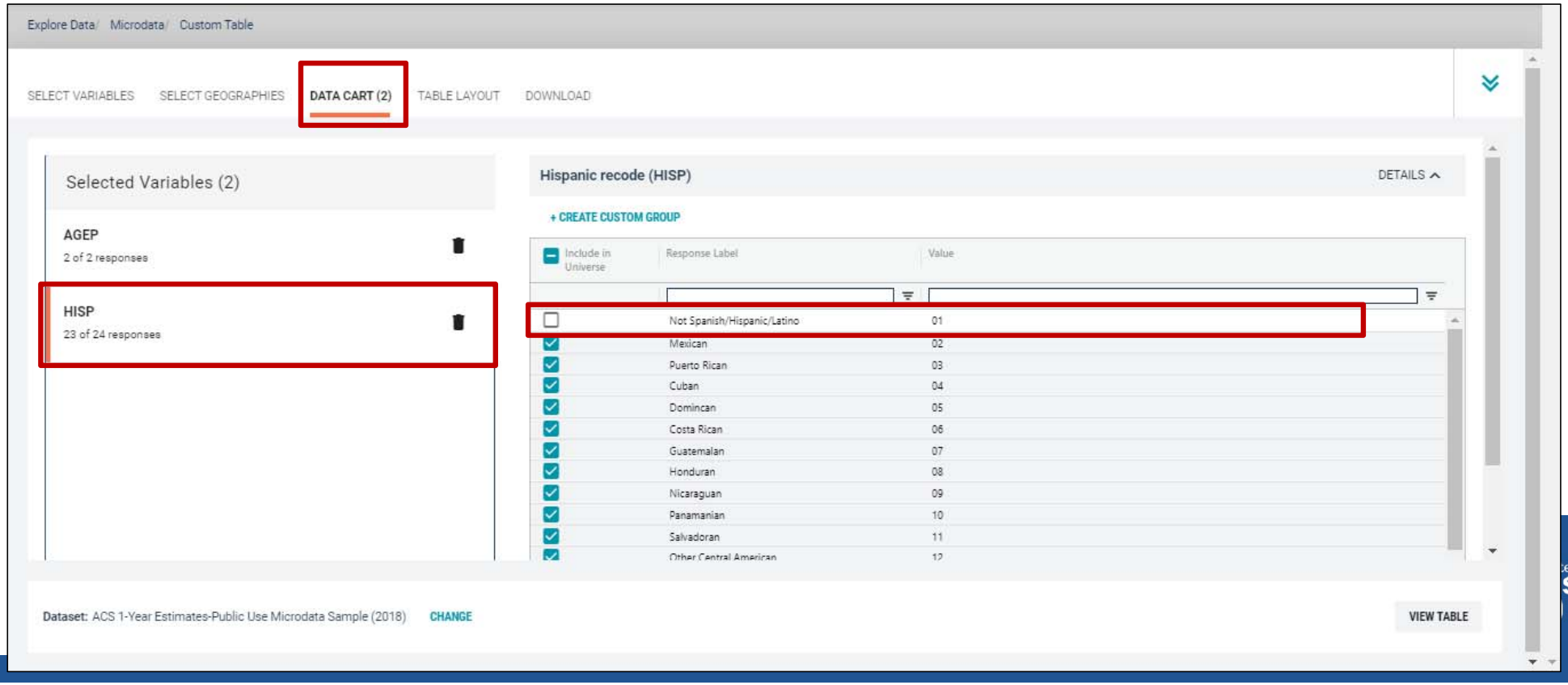
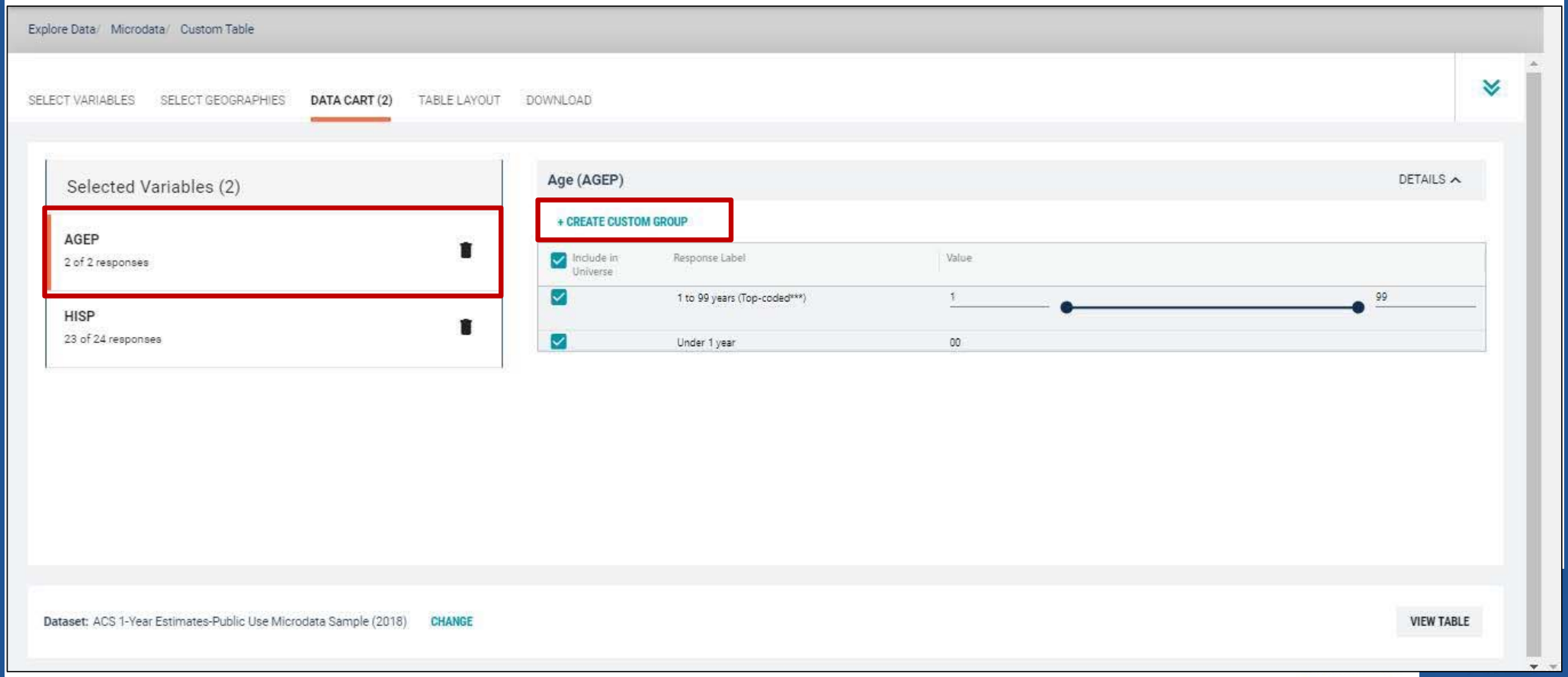
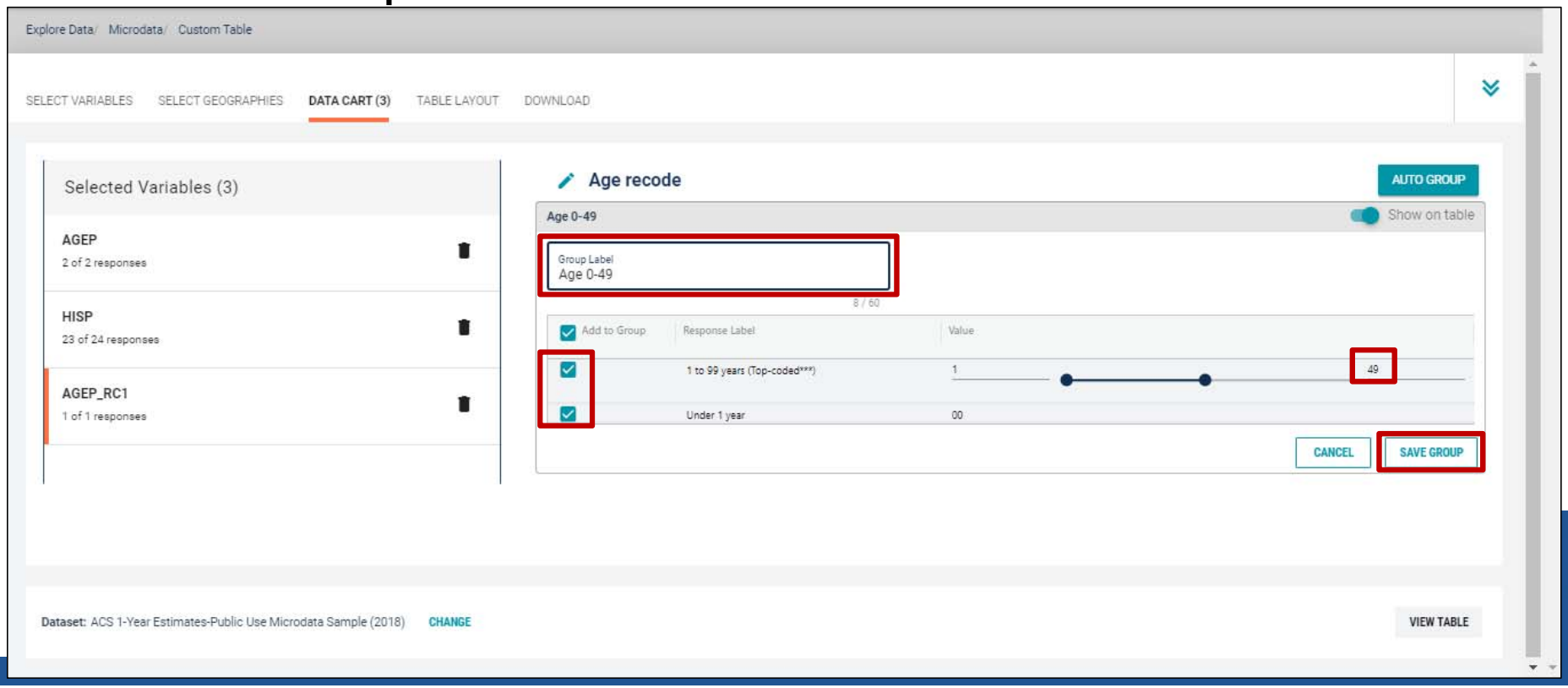
- **Limit your universe**:
  - Click the **Data Cart** tab
  - Click the **HISP** variable on the left
  - Uncheck the box for **Not Spanish/Hispanic/Latino** (This action allows you to limit the universe to Hispanics)



- **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**



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- 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

Explore Data/ Microdata/ Custom Table

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (3) | TABLE LAYOUT | DOWNLOAD

Selected Variables (3)

AGEP
2 of 2 responses

HISP
23 of 24 responses

AGEP_RC1
2 of 2 responses

Age recode

AUTO GROUP

Not Elsewhere Classified
VALUES: 50:99
EDIT GROUP

Age 0-49
VALUES: 1:49, 00
EDIT GROUP

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

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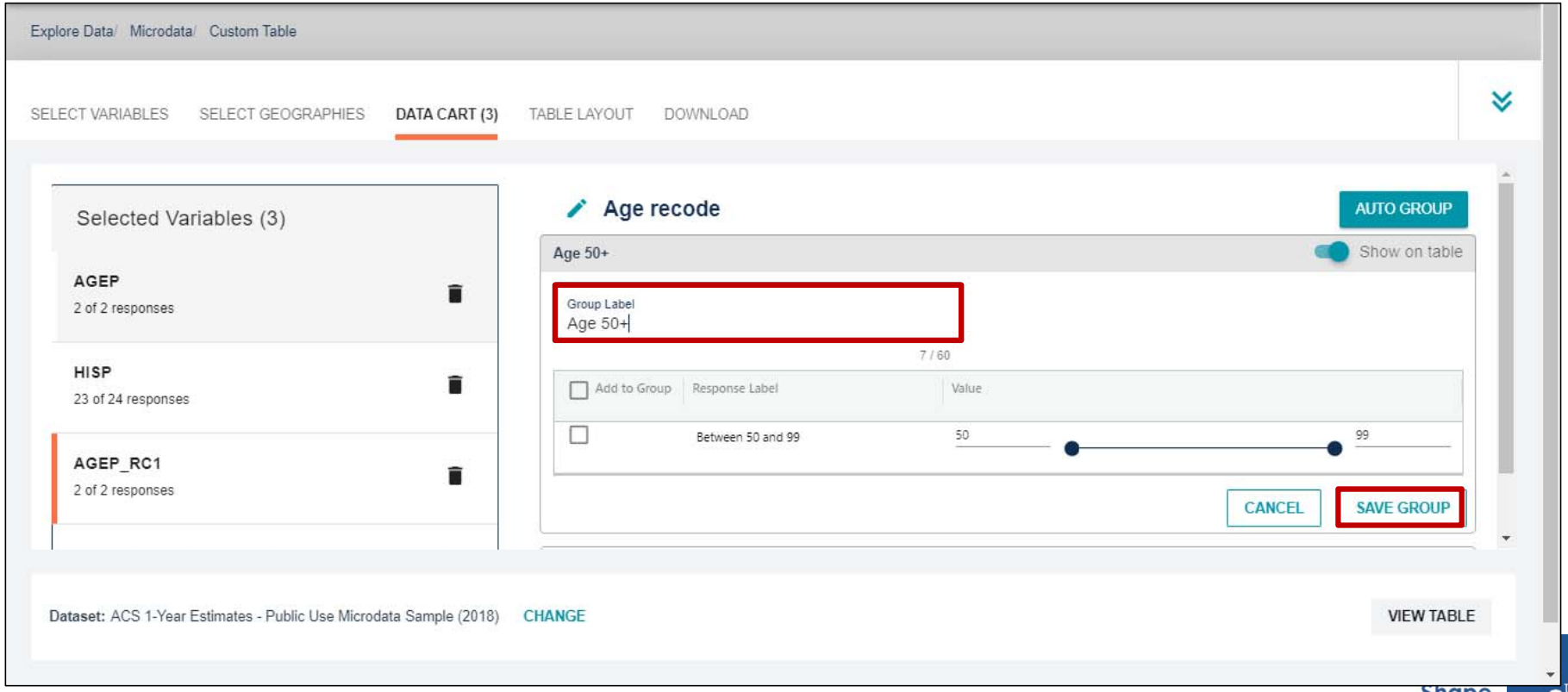
- Categorize (recode) your variable:
  - Click into **Group Label** and rename the category (e.g. Age 50+)
  - Click **Save Group** in the lowerright



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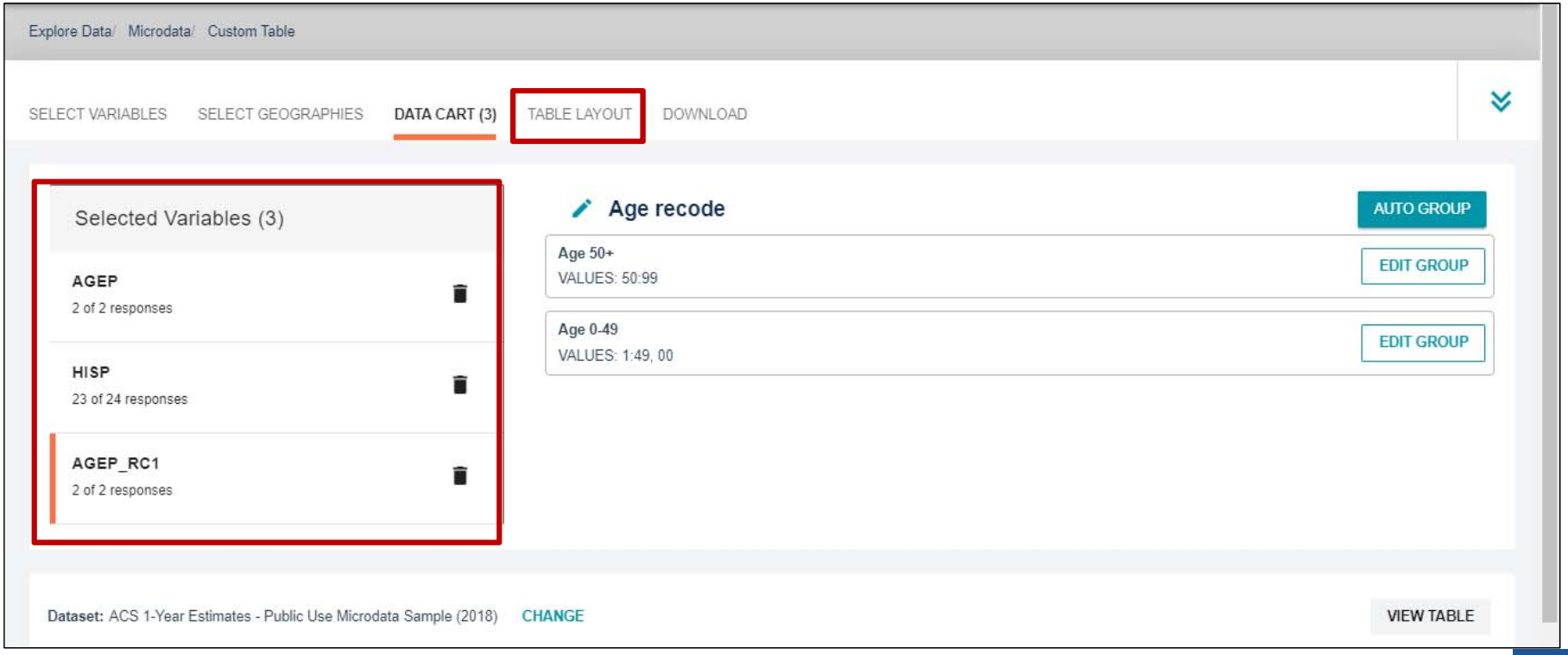
- Confirm variable selections
  - Confirm variable selections and click the **Table Layout** tab



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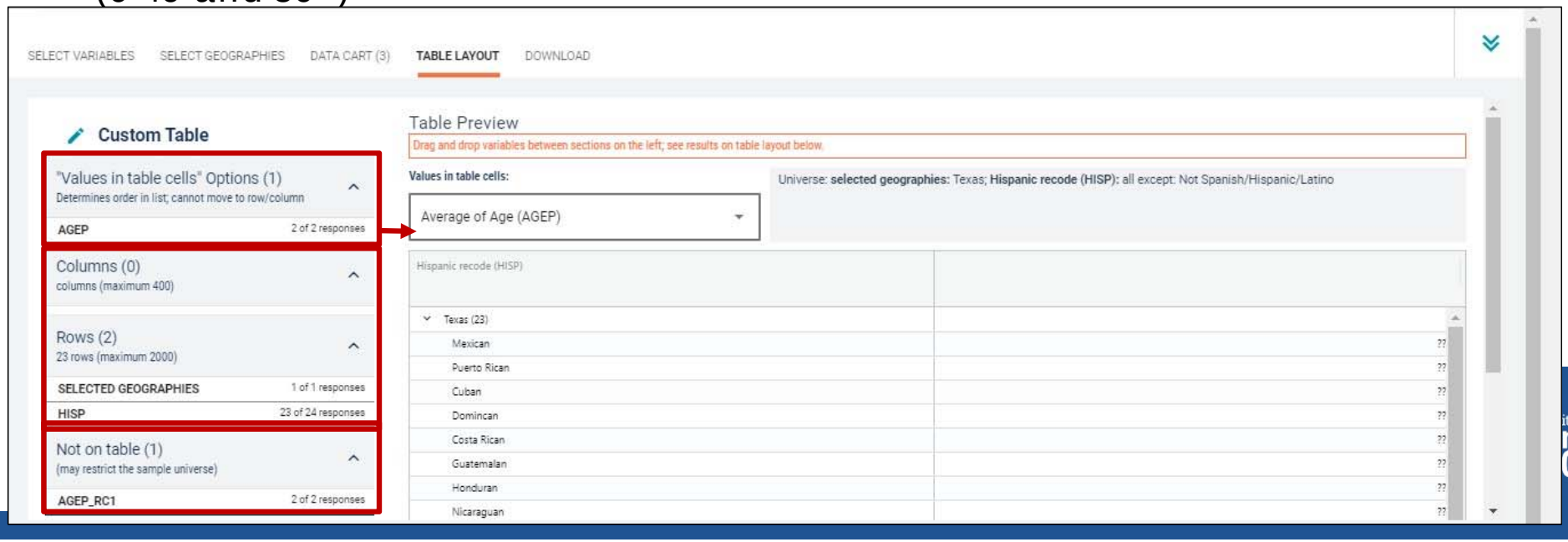
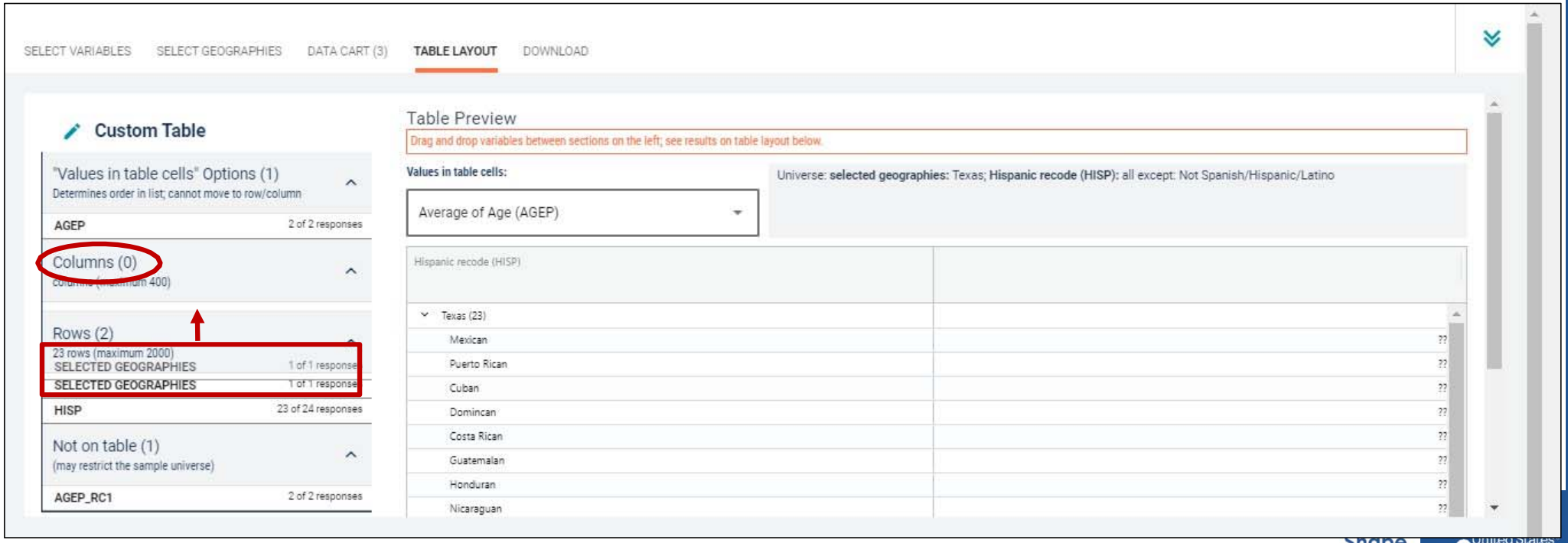
- View variable placement in the default table layout:
  - **Values in table cells Options –** When variables are shown here, you have more options to choose from in the drop down menu for “Values in table cells”
  - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing data by geography (Texas) for each detailed Hispanic group (Mexican, Puerto Rican, etc.) in the rows
  - **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



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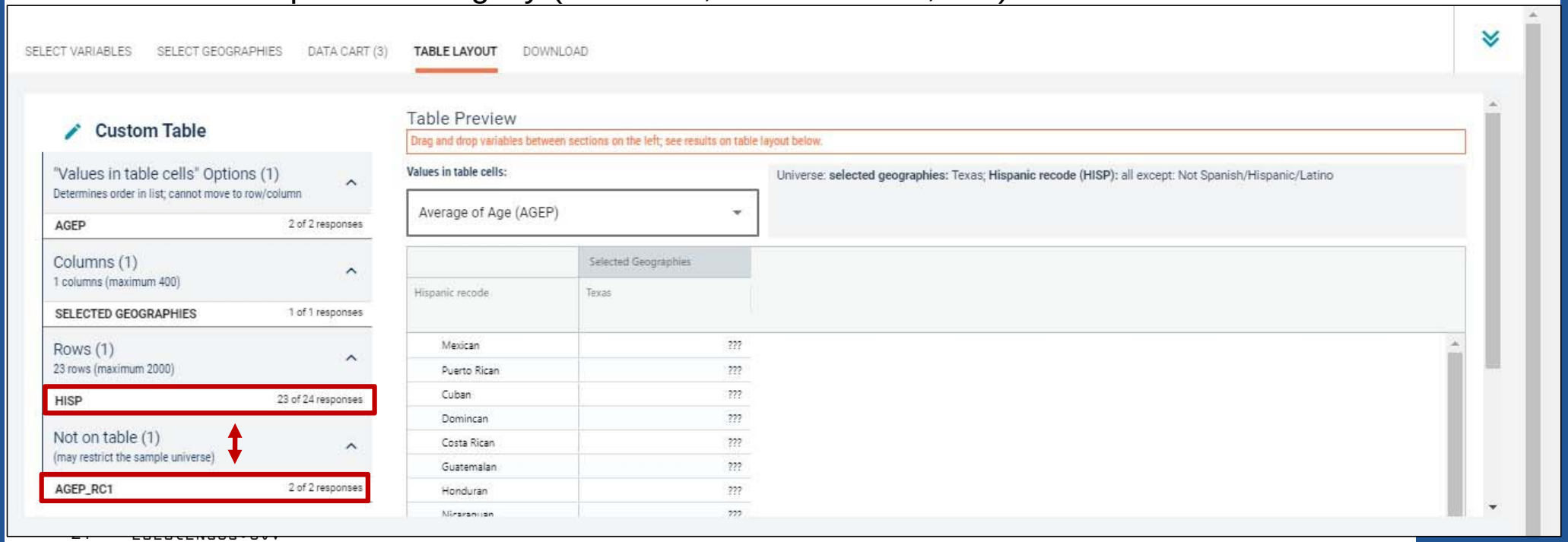
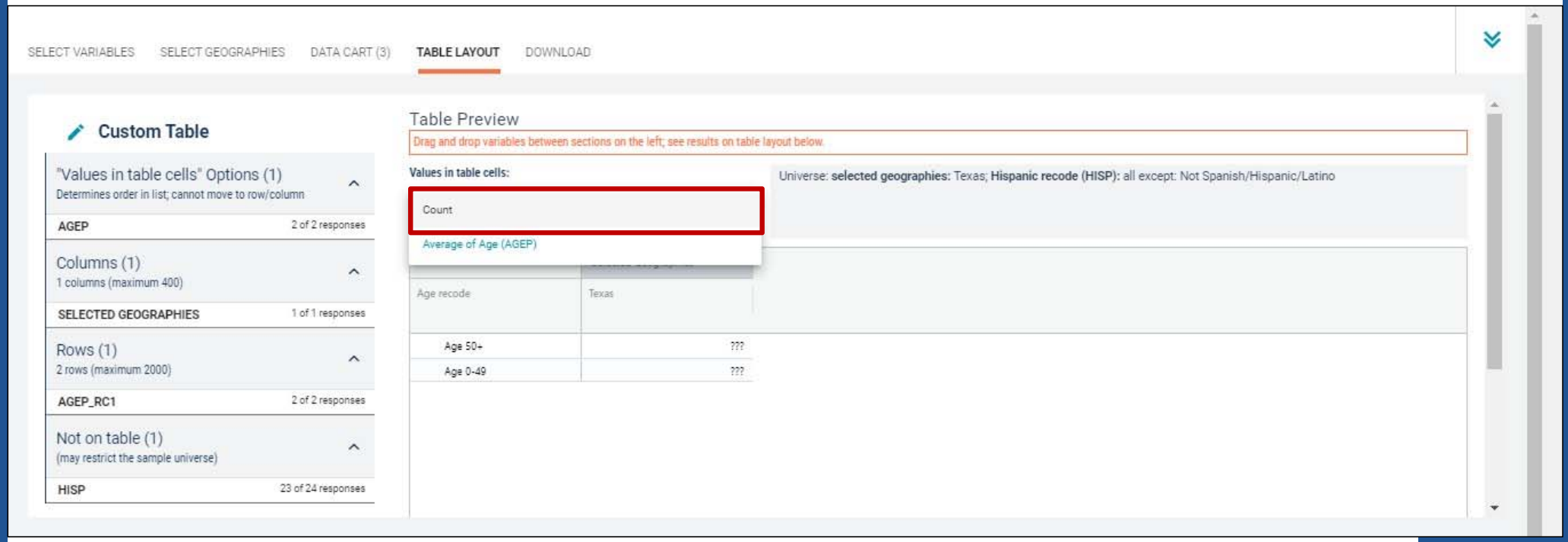
- Edit Table Layout:
  - **Move AGEP_RC1 to Rows:** This will add categories in our table row for the population 0-49 and 50+
  - **Move HISP to Not on Table:** This will limit our universe to the Hispanic population (since we unchecked the box in the data cart for value 01 – Not Hispanic or Latino). 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 Hispanics age 0-49 and 50+ in Texas



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

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (3) | TABLE LAYOUT | DOWNLOAD

Custom Table

"Values in table cells" Options (1)
Determines order in list; cannot move to row/column
AGEP — 2 of 2 responses

Columns (1)
1 columns (maximum 400)
SELECTED GEOGRAPHIES — 1 of 1 responses

Rows (1)
2 rows (maximum 2000)
AGEP_RC1 — 2 of 2 responses

Not on table (1)
(may restrict the sample universe)
HISP — 23 of 24 responses

Table Preview
Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:
Count

Universe: **selected geographies:** Texas; **Hispanic recode (HISP):** all except: Not Spanish/Hispanic/Latino

Show Total

Age recode	Selected Geographies Texas
??? (2)	0
Age 50+	???
Age 0-49	???

Dataset: ACS 1-Year Estimates-Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

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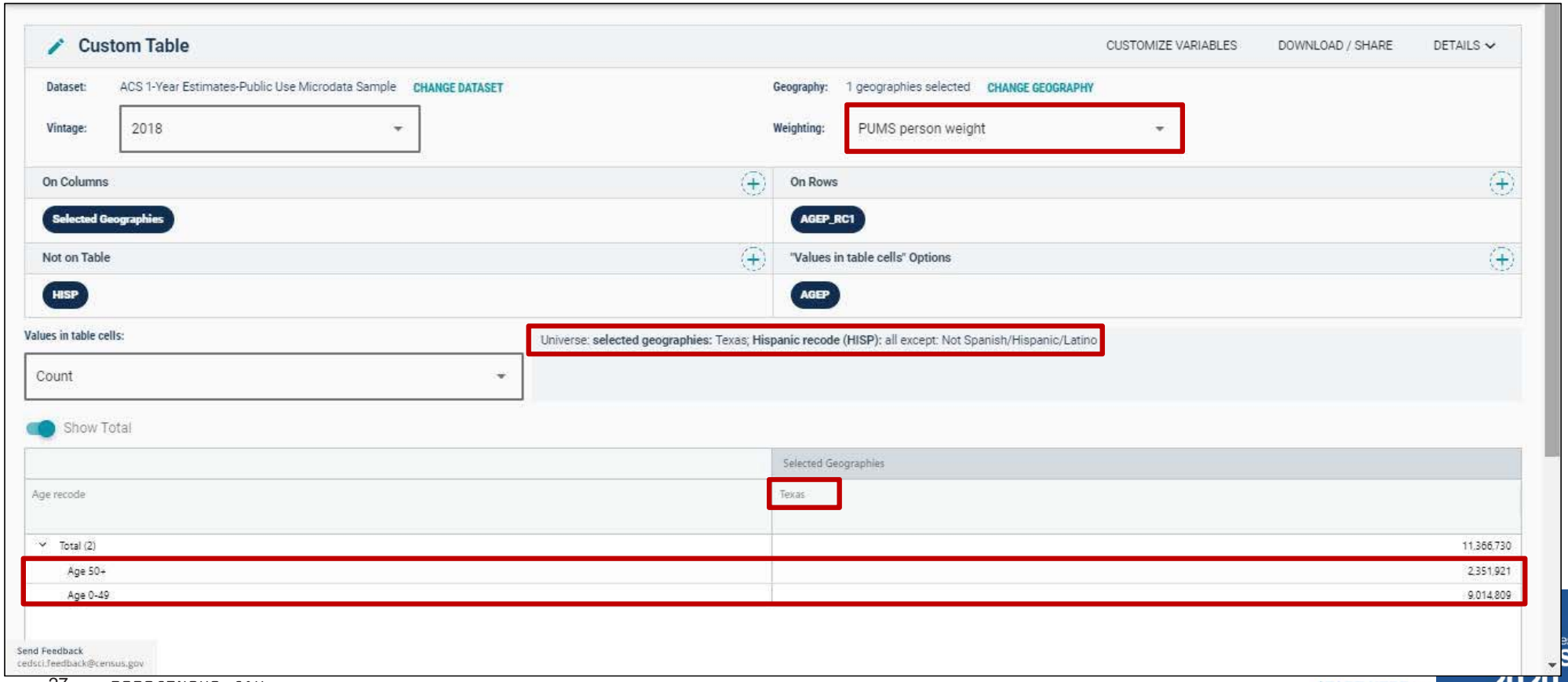
- View Table:
  - There were an estimated 2,351,921 Hispanic people age 50 and older in Texas in 2018
  - There were an estimated 9,014,809 Hispanic people age between 0 and 49 in TX in 2018



Demo

Example 2:

Took Car/truck/van to work by Detailed Industry in San Antonio PUMAs

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Table B08126 – Commuting by Industry

MEANS OF TRANSPORTATION TO WORK BY INDUSTRY

Survey/Program: American Community Survey
TableID: B08126

Product: 2018: ACS 5-Year Estimates Detailed Tables
Universe: Workers 16 years and over

CUSTOMIZE TABLE

	San Antonio City (Northeast)--Inside Loop I-410 PUMA, Texas		San Antonio City (Southeast)--Inside Loop I-4
	Estimate	Margin of Error	Estimate
Armed forces	2,423	+/-549	68
Car, truck, or van - drove alone:	42,888	+/-1,623	37,292
Agriculture, forestry, fishing and hunting, and mining	678	+/-220	583
Construction	2,519	+/-515	3,757
Manufacturing	2,308	+/-377	2,483
Wholesale trade	1,158	+/-314	956
Retail trade	4,431	+/-548	4,423
Transportation and warehousing, and utilities	1,666	+/-445	2,175
Information	804	+/-257	507
Finance and insurance, and real estate and rental and leasing	3,343	+/-450	2,561
Professional, scientific, and management, and administrative and waste ...	5,461	+/-579	3,815
Educational services, and health care and social assistance	10,256	+/-807	8,477
Arts, entertainment, and recreation, and accommodation and food services	4,785	+/-623	3,680
Other services (except public administration)	2,191	+/-387	2,043
Public administration	1,979	+/-314	1,784
Armed forces	1,309	+/-272	48
Car, truck, or van - carpooled:	4,473	+/-639	8,302
Agriculture, forestry, fishing and hunting, and mining	56	+/-58	151
Construction	491	+/-207	1,773
Manufacturing	217	+/-124	690

Annually released prefabricated ACS tables provide data about individuals who took a car, truck, or van to work for 14 industries, but what if we want this data for more detailed industries?

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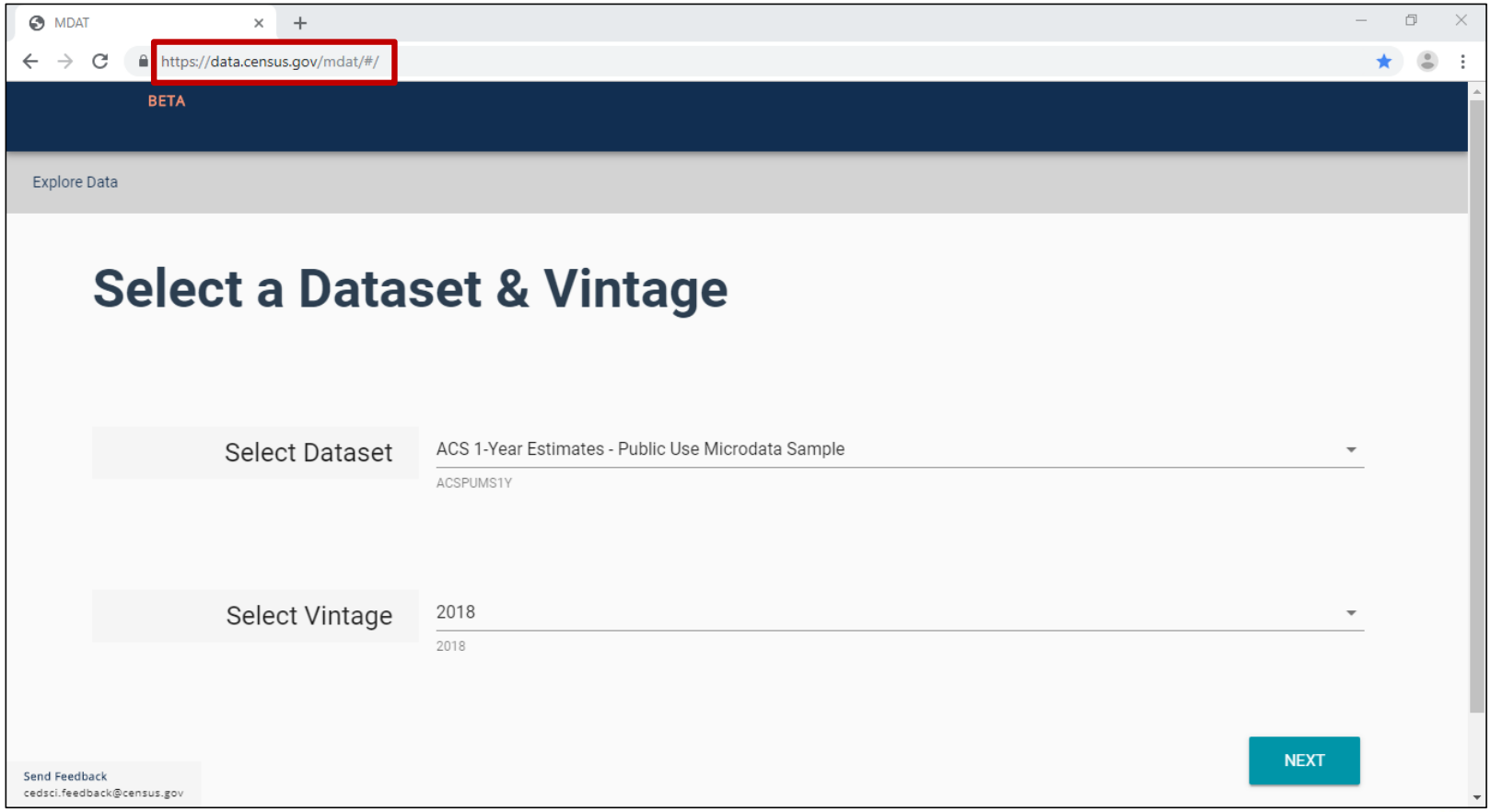
- **Visit Microdata Access at data.census.gov/mdat**



data.census.gov/mdat

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

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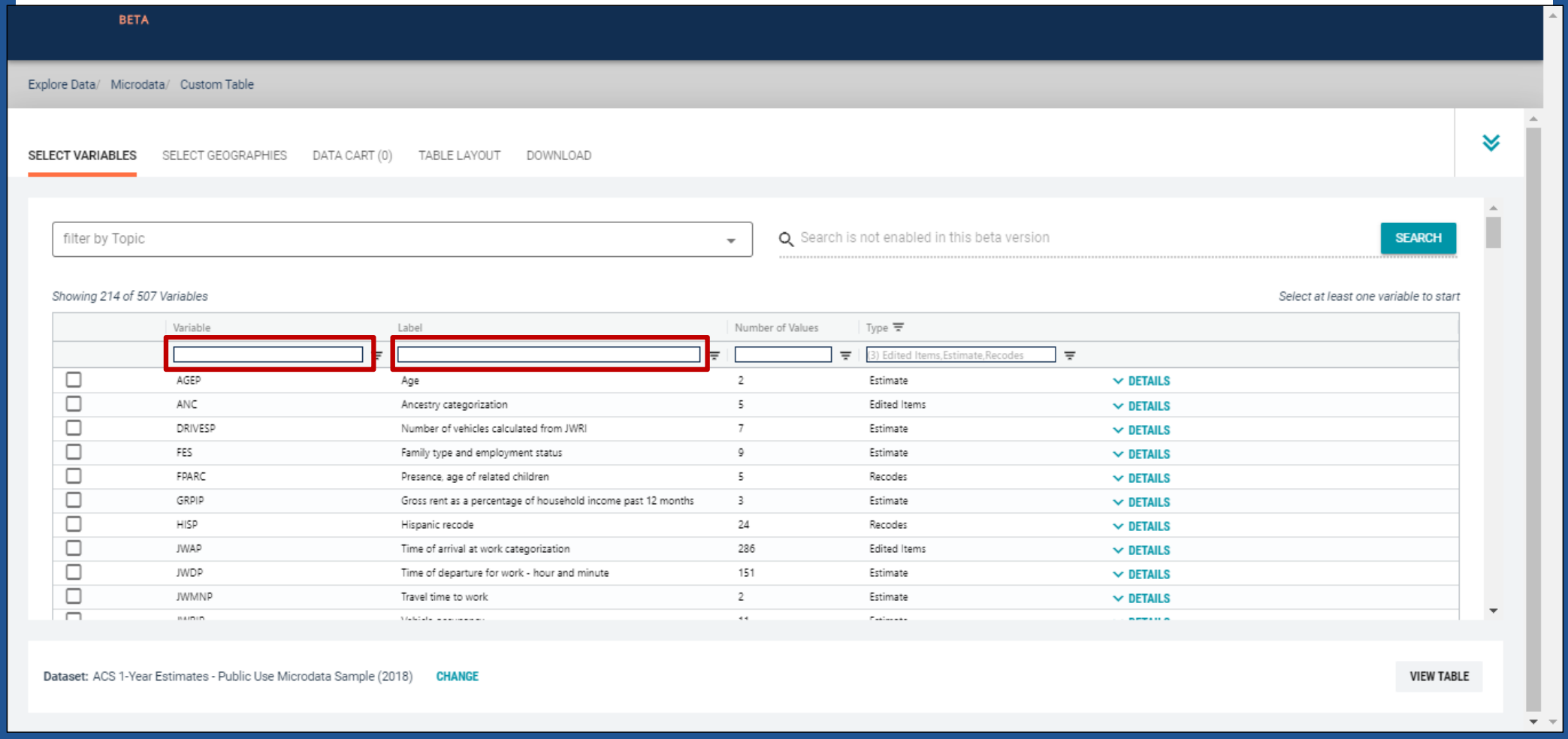
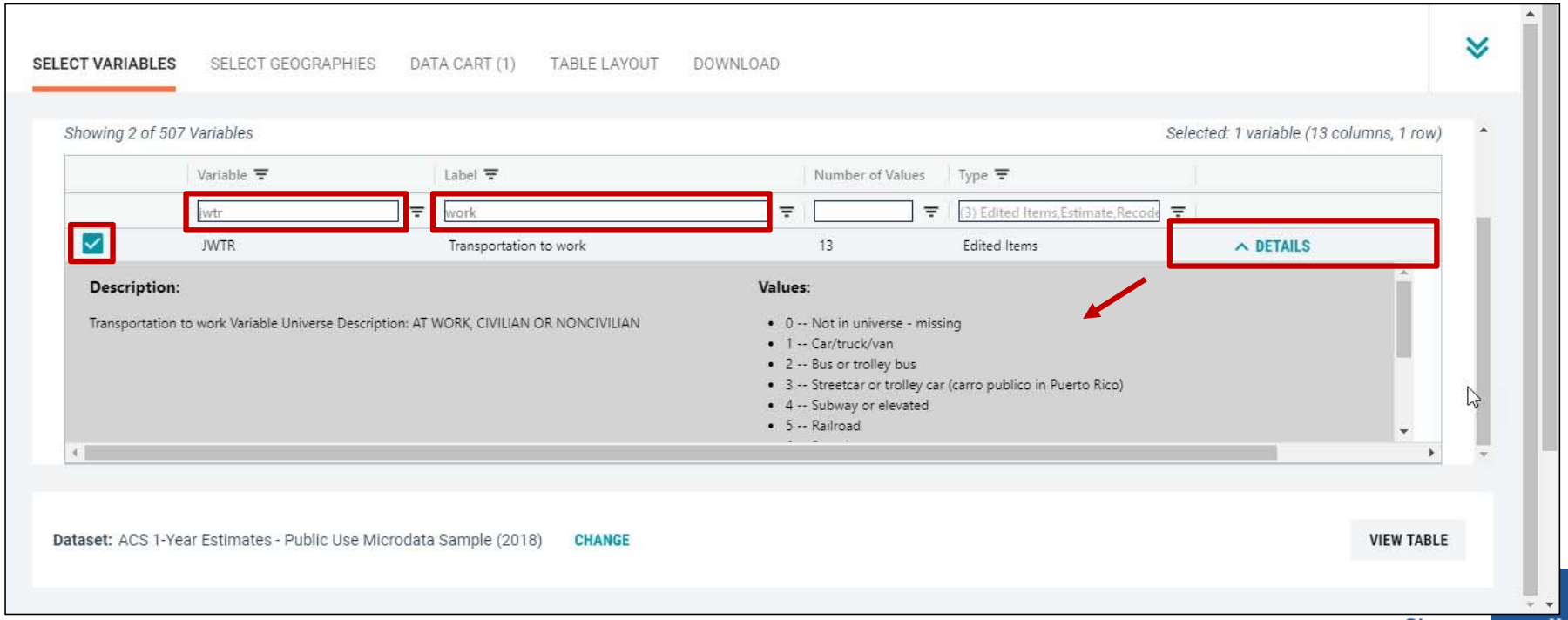
- **Search for Variables**: Use the search box below “Variable” or “Label” to find your variables of interest



- **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



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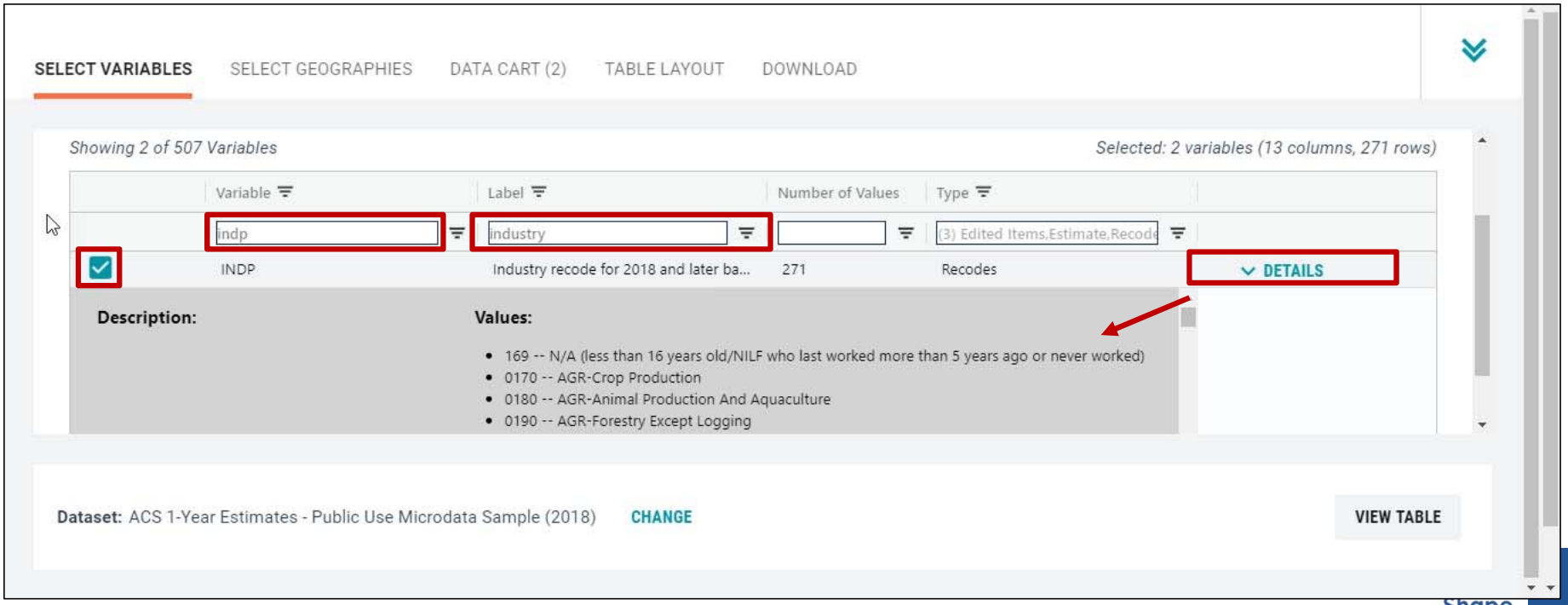
- **Select variable for Industry**:
  - Type “INDP” in the Variable search box or type “Industry” in the label search box
  - Check the box to the left of INDP to add the variable to your data cart



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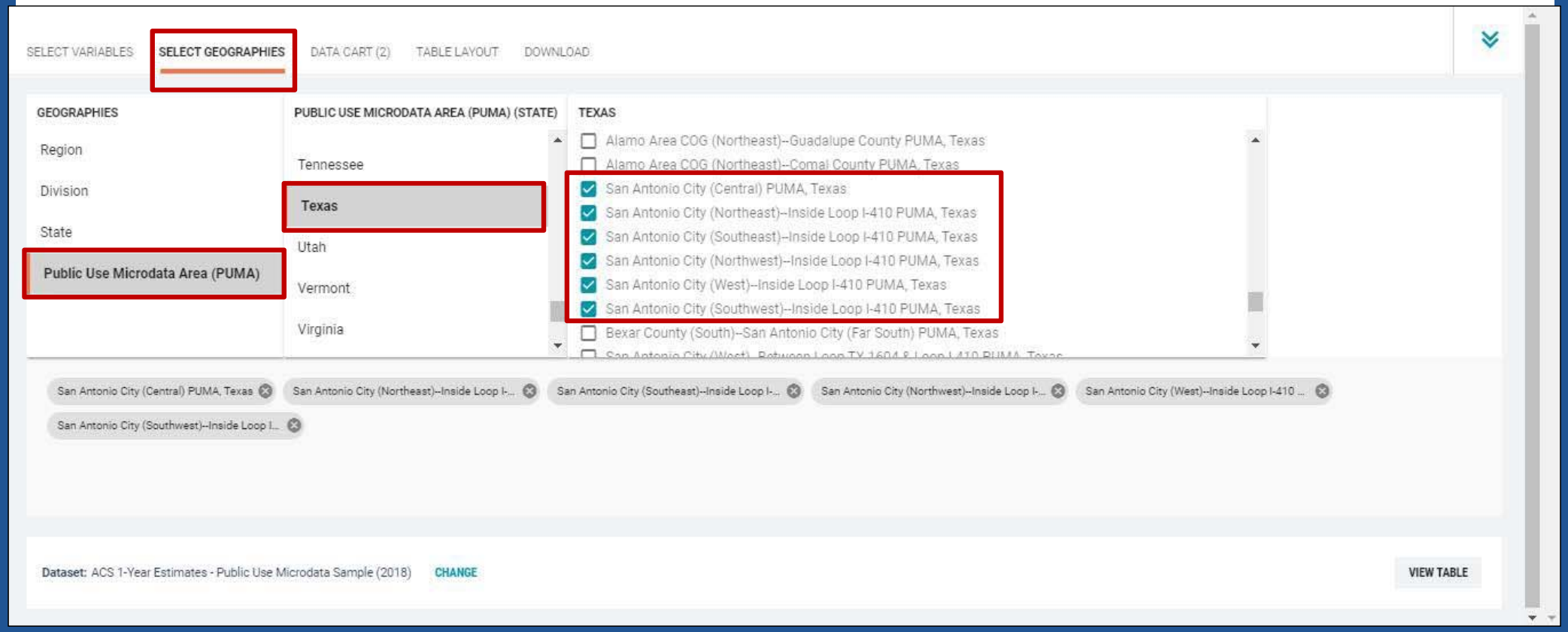
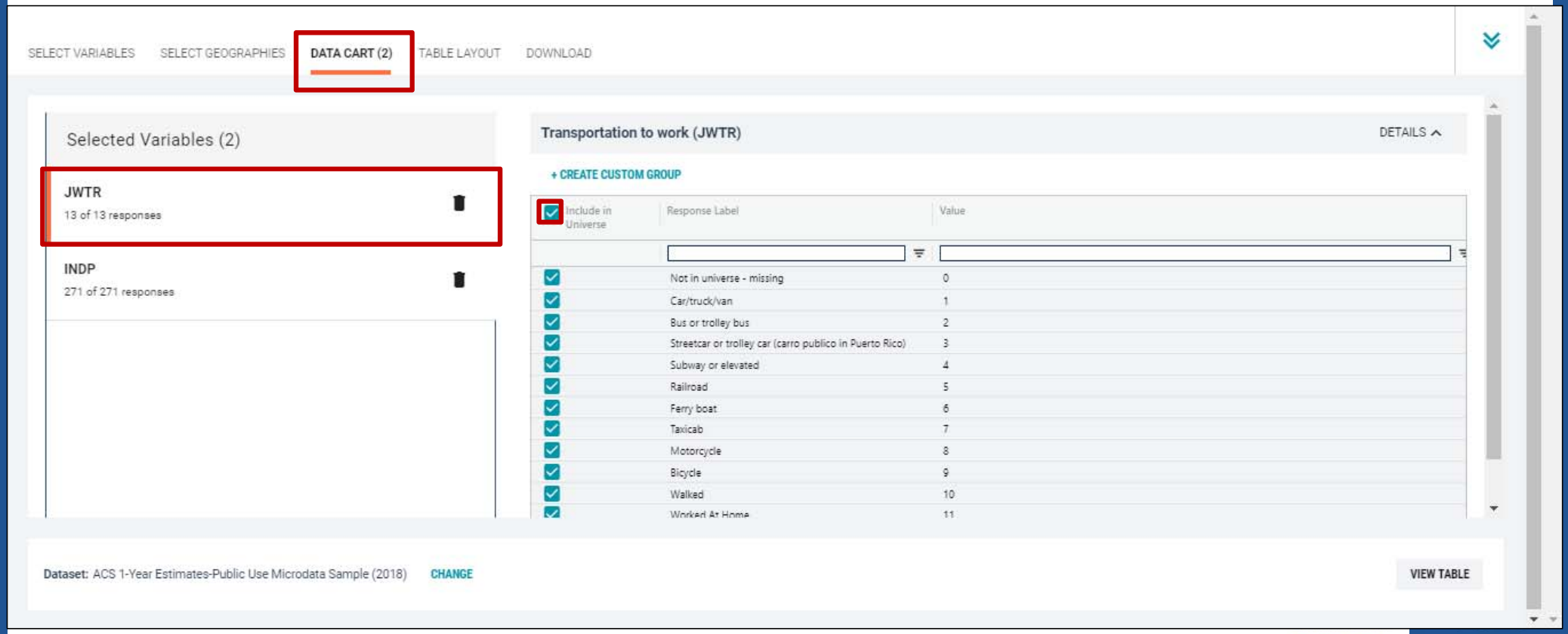
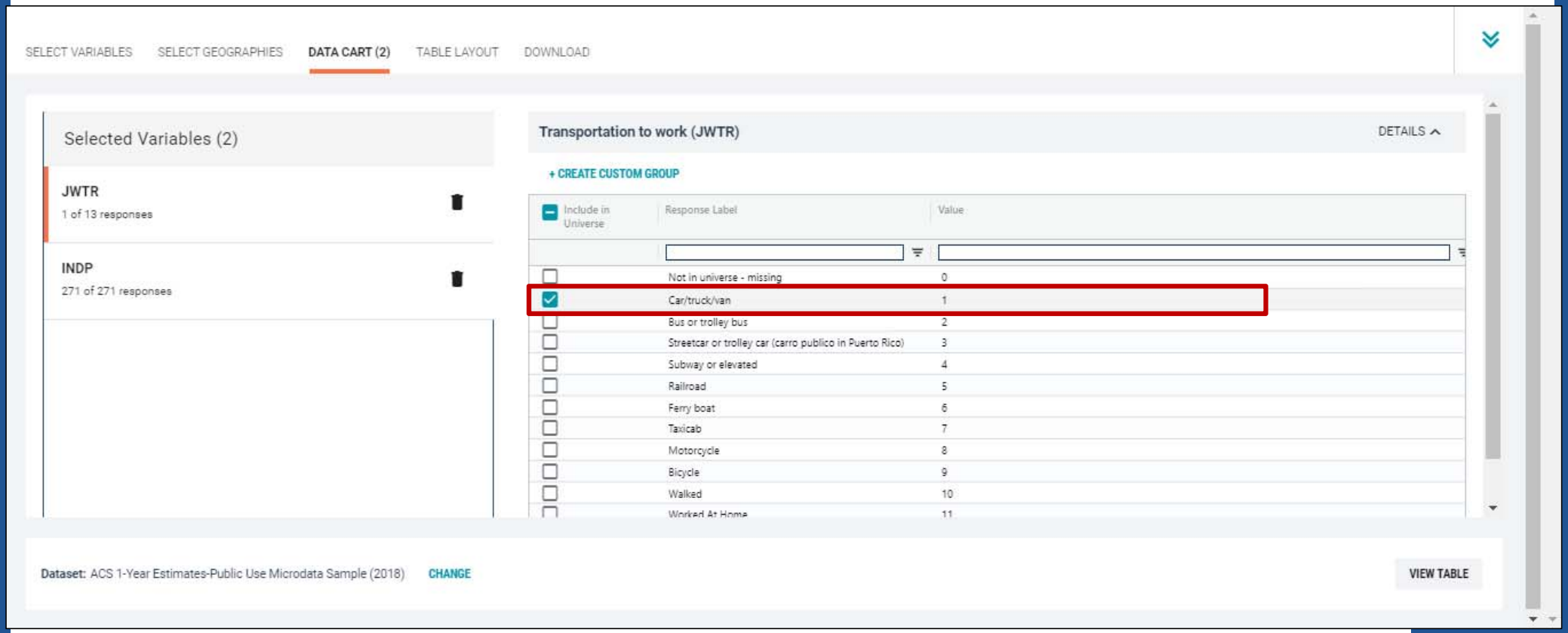
- **Select geography**:
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **Public Use Microdata Area (PUMA)** and **Texas**
  - Check the boxes next to the **first 6 San Antonio PUMAs**



- **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 **Car/truck/van**



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

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (2) | TABLE LAYOUT | DOWNLOAD

Selected Variables (2)

JWTR
1 of 13 responses

INDP
271 of 271 responses

Transportation to work (JWTR) DETAILS

+ CREATE CUSTOM GROUP

Include in Universe	Response Label	Value
☐	Not in universe - missing	0
☑	Car/truck/van	1
☐	Bus or trolley bus	2
☐	Streetcar or trolley car (carro publico in Puerto Rico)	3
☐	Subway or elevated	4
☐	Railroad	5
☐	Ferry boat	6
☐	Taxicab	7
☐	Motorcycle	8
☐	Bicycle	9
☐	Walked	10
☐	Worked At Home	11

Dataset: ACS 1-Year Estimates-Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

Shape your future START HERE >
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- 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 took a car/truck/van to workin the columns, with the geographies (six PUMAs) and detailed industries in the rows

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (2) | TABLE LAYOUT | DOWNLOAD

Custom Table

"Values in table cells" Options (0)
Determines order in list; cannot move to row/column

Columns (1)
1 columns (maximum 400)
JWTR — 1 of 13 responses

Rows (2)
1626 rows (maximum 2000)
SELECTED GEOGRAPHIES — 6 of 6 responses
INDP — 271 of 271 responses

Not on table (0)
(may restrict the sample universe)

Table Preview
Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:
Count

Universe: **selected geographies:** San Antonio City (Central) ..., San Antonio City (Northeast..., San Antonio City (Southeast..., San Antonio City (Northwest..., San Antonio City (West)--In..., San Antonio City (Southwest...; **Transportation to work (JWTR):** Car/truck/van

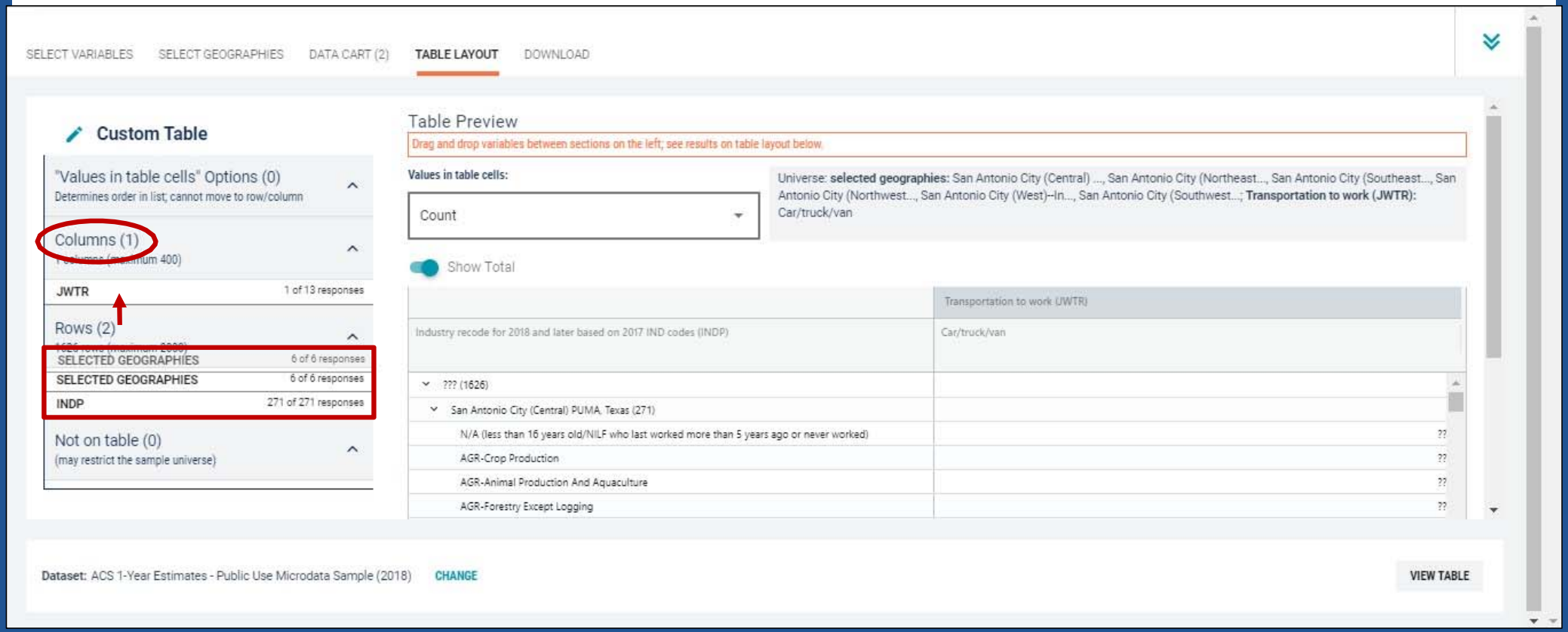
Show Total

	Transportation to work (JWTR)
Industry recode for 2018 and later based on 2017 IND codes (INDP)	Car/truck/van
??? (1626)	
San Antonio City (Central) PUMA, Texas (271)	
N/A (less than 16 years old/NILF who last worked more than 5 years ago or never worked)	??
AGR-Crop Production	??
AGR-Animal Production And Aquaculture	??
AGR-Forestry Except Logging	??

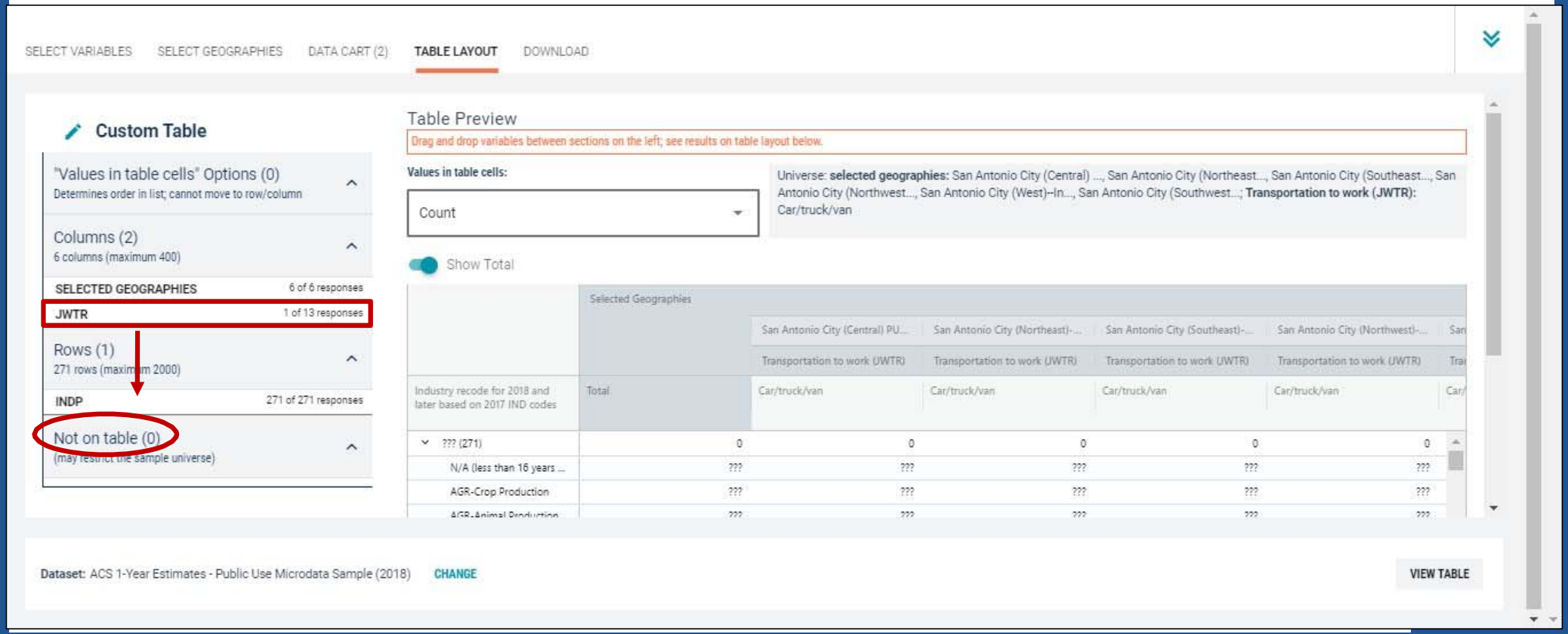
Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

- 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 took a car/truck/van to work. Putting this in “Not in table” restricts our universe without cluttering up our table with a repeating label for “Car/truck/van.”



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

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (2) | TABLE LAYOUT | DOWNLOAD

Custom Table

"Values in table cells" Options (0)
Determines order in list; cannot move to row/column

Columns (1)
6 columns (maximum 400)

SELECTED GEOGRAPHIES — 6 of 6 responses

Rows (1)
271 rows (maximum 2000)

INDP — 271 of 271 responses

Not on table (1)
(may restrict the sample universe)

JWTR — 1 of 13 responses

Table Preview

Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells: Count

Universe: **selected geographies:** San Antonio City (Central) ..., San Antonio City (Northeast..., San Antonio City (Southeast..., San Antonio City (Northwest..., San Antonio City (West)--In..., San Antonio City (Southwest...; **Transportation to work (JWTR):** Car/truck/van

Show Total

Industry recode for 2018 and later based on 2017 IND codes	Selected Geographies: Total	San Antonio City (Central) PUMA, Texas	San Antonio City (Northeast)--Inside Loop I-410 PUMA, Texas	San Antonio City (Southeast)--Inside Loop I-410 PUMA, Texas	San Antonio City (Northwest)--Inside Loop I-410 PUMA, Texas	San Antonio City (West)--Inside Loop I-410 PUMA, Texas	San Antonio City (Southwest)--Inside Loop I-410 PUMA, Texas
??? (271)	0	0	0	0	0	0	
N/A (less than 16 years ...	???	???	???	???	???	???	
AGR-Crop Production	???	???	???	???	???	???	
AGR-Animal Production ...	???	???	???	???	???	???	
AGR-Forestry Except Lo...	???	???	???	???	???	???	
AGR-Logging	???	???	???	???	???	???	

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

Shape your future START HERE >
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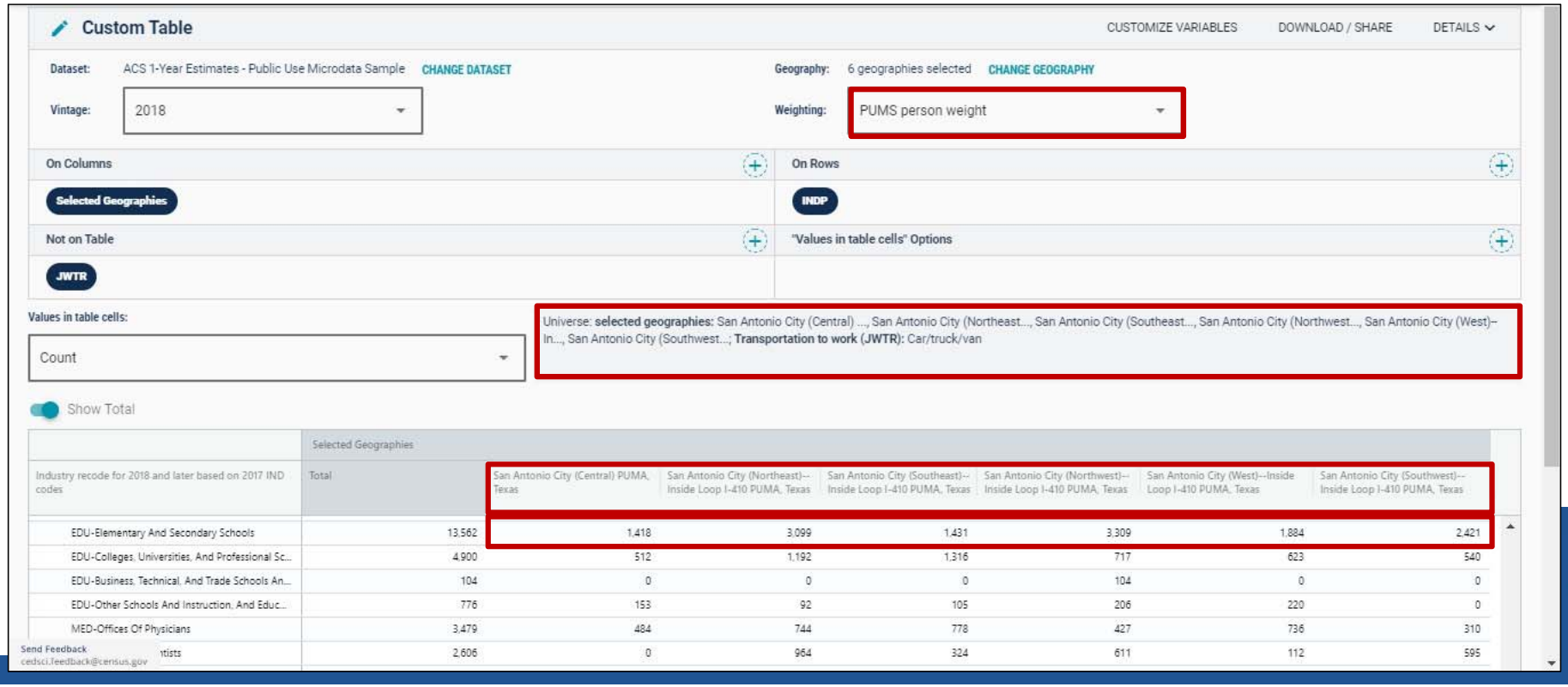
- View Table:
  - The estimated number of individuals in the Education-Elementary and Secondary Schools industry that took a car/truck/van to work are:
    - San Antonio City (Central) PUMA, Texas: 1,418
    - San Antonio City (Northeast)—Inside Loop I-410 PUMA, Texas: 3,099
    - San Antonio City (Southeast)—Inside Loop I-410 PUMA, Texas: 1,431
    - San Antonio City (Northwest)—Inside Loop I-410 PUMA, Texas: 3,309
    - San Antonio City (West)—Inside Loop I-410 PUMA, Texas: 1,884
    - San Antonio City (Southwest)—Inside Loop I-410 PUMA, Texas: 2,421



United States Census 2020

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

Values in table cells:

Count

Universe: **selected geographies:** San Antonio City (Central) ..., San Antonio City (Northeast..., San Antonio City (Southeast..., San Antonio City (Northwest..., San Antonio City (West)--In..., San Antonio City (Southwest...; **Transportation to work (JWTR):** Car/truck/van

Show Total

	Selected Geographies						
Industry recode for 2018 and later based on 2017 IND codes	Total	San Antonio City (Central) PUMA, Texas	San Antonio City (Northeast)--Inside Loop I-410 PUMA, Texas	San Antonio City (Southeast)--Inside Loop I-410 PUMA, Texas	San Antonio City (Northwest)--Inside Loop I-410 PUMA, Texas	San Antonio City (West)--Inside Loop I-410 PUMA, Texas	San Antonio City (Southwest)--Inside Loop I-410 PUMA, Texas
Total (271)	271,637	34,962	53,483	42,493	43,492	44,956	52,251
CON-Construction (The Cleaning Of Buildings ...	34,671	6,149	2,766	7,590	4,717	7,011	6,438
ENT-Restaurants And Other Food Services	26,041	2,962	5,283	2,782	4,612	4,861	5,541
MED-General Medical And Surgical Hospitals, ...	12,233	1,897	3,337	1,363	1,699	1,946	1,991
RET-Supermarkets and Other Grocery (Except ...	6,930	1,699	795	1,208	1,010	674	1,544
EDU-Elementary And Secondary Schools	13,562	1,418	3,099	1,431	3,309	1,884	2,421
PRF-Landscaping Services	4,734	994	214	474	690	816	1,546
FIN-Banking And Related Activities	3,568	805	541	780	649	521	272
PRF-Services To Buildings And Dwellings (Exce...	5,489	780	870	583	863	1,396	997
MED-Home Health Care Services	6,210	592	857	867	1,623	729	1,542
MFG-Furniture And Related Products	1,461	548	0	340	206	56	311
PRF-Business Support Services	3,069	544	773	48	374	647	683
MED-Other Health Care Services	2,630	521	561	372	560	528	88
EDU-Colleges, Universities, And Professional Sc...	4,900	512	1,192	1,316	717	623	540
SRV-Nail Salons And Other Personal Care Servi...	657	486	0	171	0	0	0
MED-Offices Of Physicians	3,479	484	744	778	427	736	310

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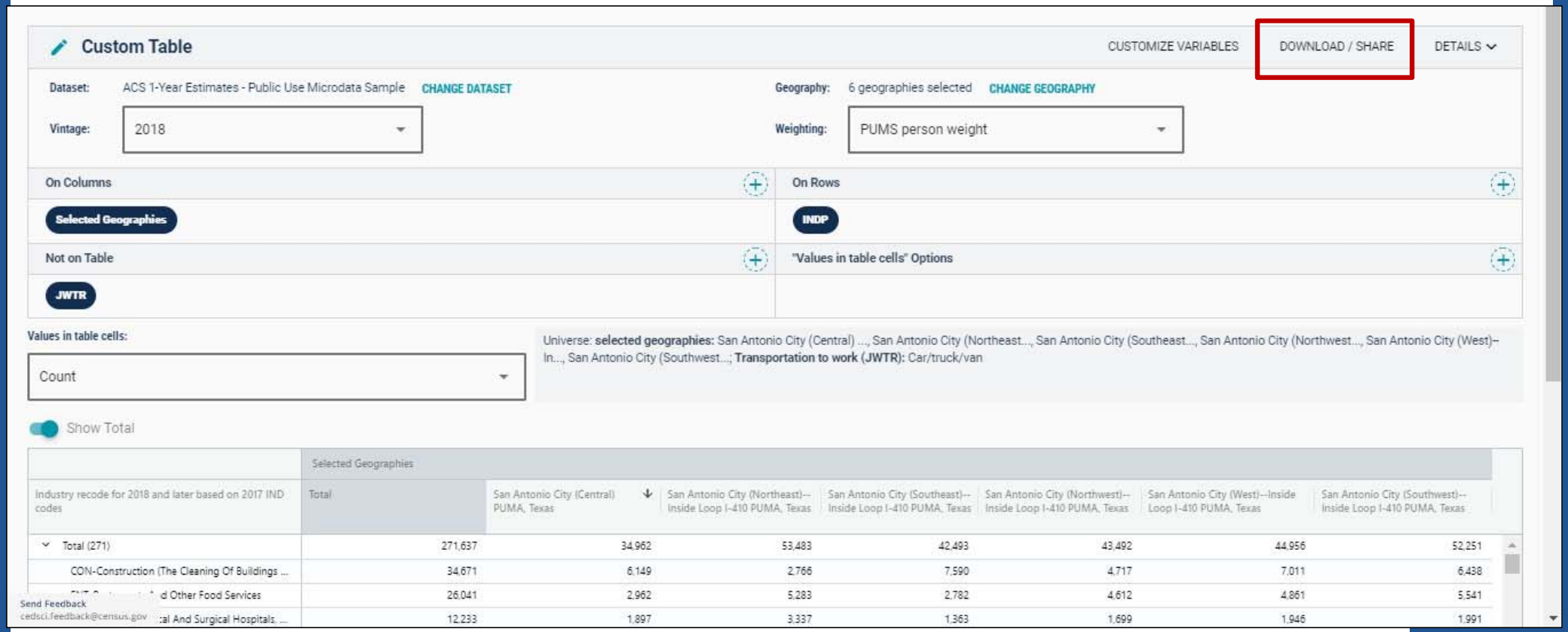
- Download:
  - Click **Download/Share** at the top of the table



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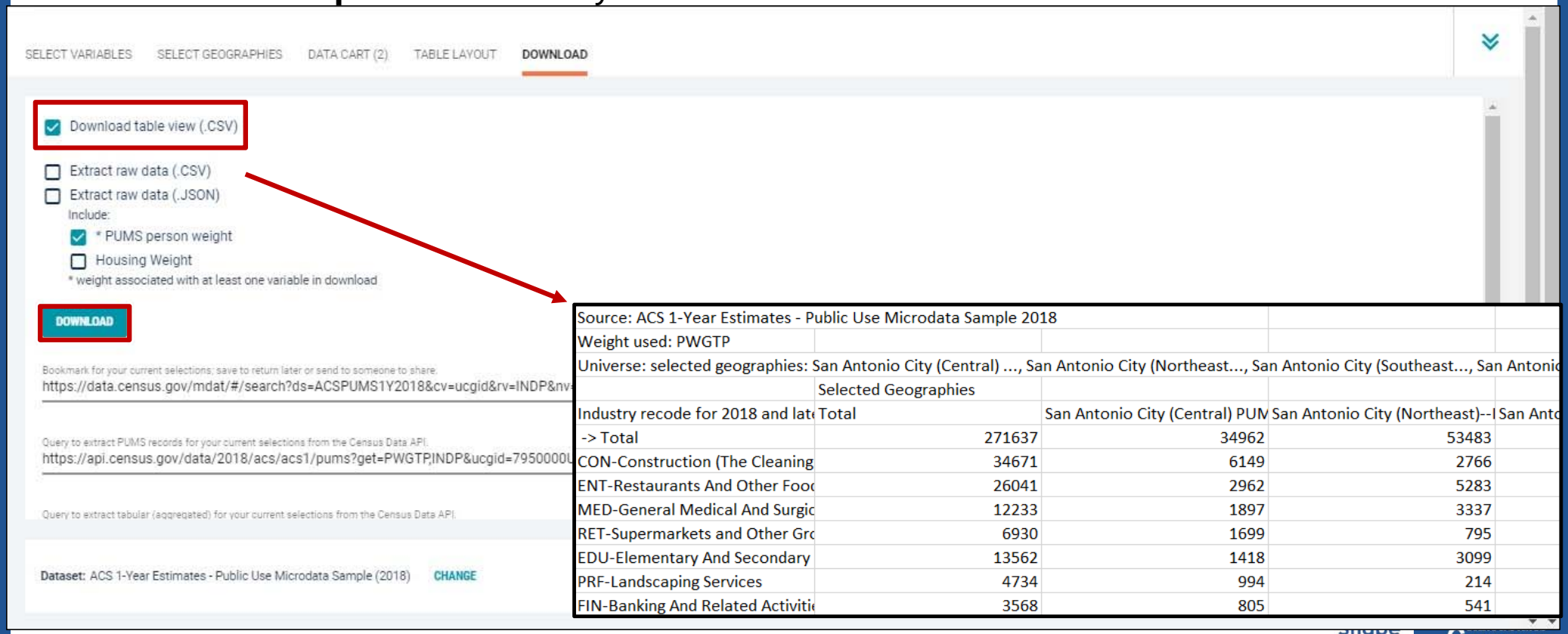
- Download:
  - Select **Download table view (.CSV),** then click **DOWNLOAD**
  - Click on **export.csv** to view your downloaded table



Source: ACS 1-Year Estimates - Public Use Microdata Sample 2018				
Weight used: PWGTP				
Universe: selected geographies: San Antonio City (Central) ..., San Antonio City (Northeast..., San Antonio City (Southeast..., San Antonio				
	Selected Geographies			
Industry recode for 2018 and late	Total	San Antonio City (Central) PUM	San Antonio City (Northeast)--I	San Anto
-> Total	271637	34962	53483	
CON-Construction (The Cleaning	34671	6149	2766	
ENT-Restaurants And Other Food	26041	2962	5283	
MED-General Medical And Surgic	12233	1897	3337	
RET-Supermarkets and Other Gro	6930	1699	795	
EDU-Elementary And Secondary	13562	1418	3099	
PRF-Landscaping Services	4734	994	214	
FIN-Banking And Related Activiti	3568	805	541	

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Census 2020

Demo

Example 3:

Poverty by Single Year of Age for Children Under 18 in Texas

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United States Census 2020

Table B17001 – Poverty By Age

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

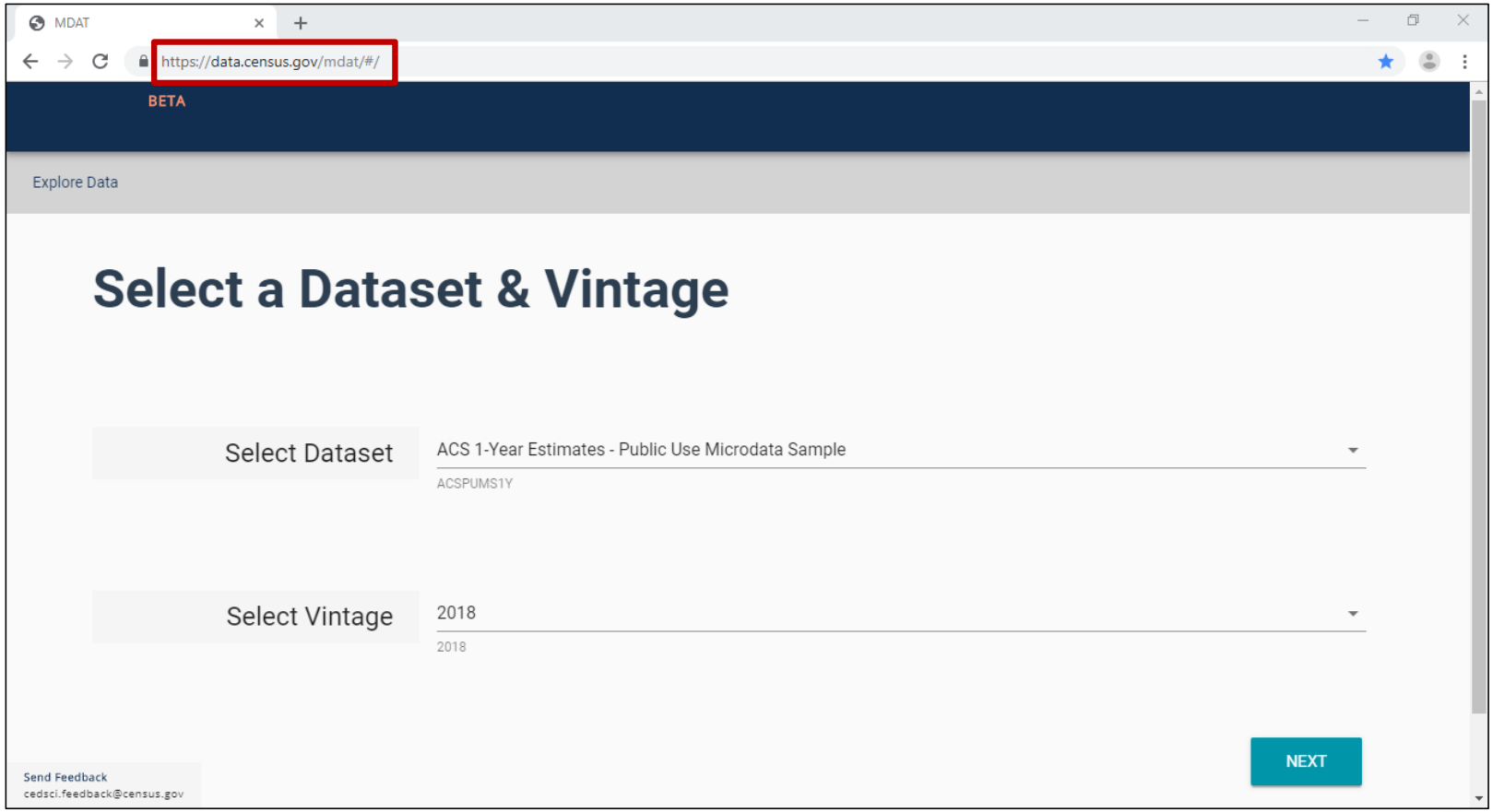
Survey/Program: American Community Survey
TableID: B17001
Product: 2018: ACS 1-Year Estimates Detailed Tables
Universe:
Population for whom poverty status is determined

CUSTOMIZE TABLE

	Texas	
	Estimate	Margin of Error
Total:	28,074,573	+/-7,348
Income in the past 12 months below p...	4,180,675	+/-65,525
Male:	1,853,119	+/-36,359
Under 5 years	231,155	+/-10,648
5 years	40,519	+/-3,520
6 to 11 years	265,730	+/-11,478
12 to 14 years	130,065	+/-9,401
15 years	41,618	+/-3,799
16 and 17 years	74,630	+/-5,757
18 to 24 years	241,350	+/-10,493
25 to 34 years	196,126	+/-9,289

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

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

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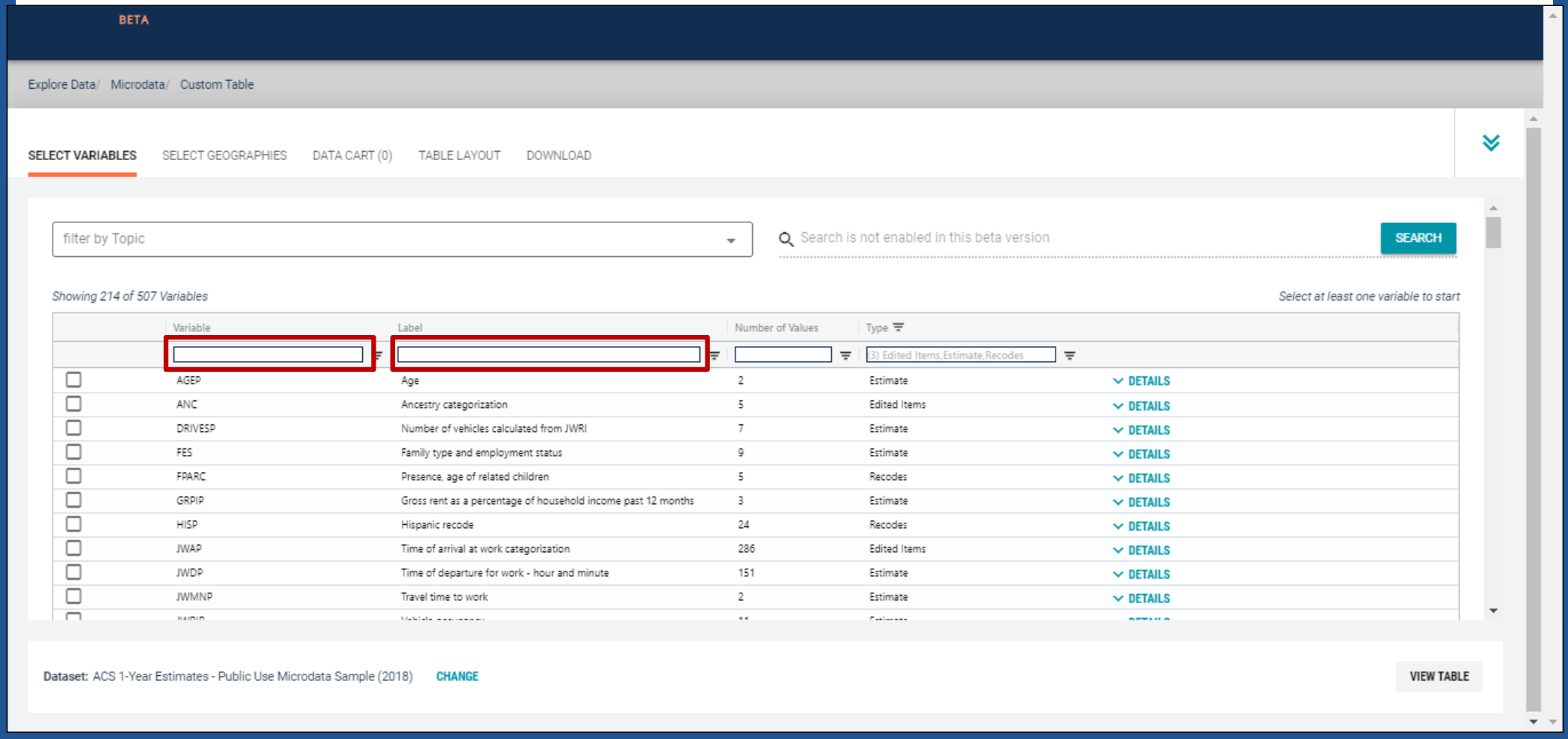
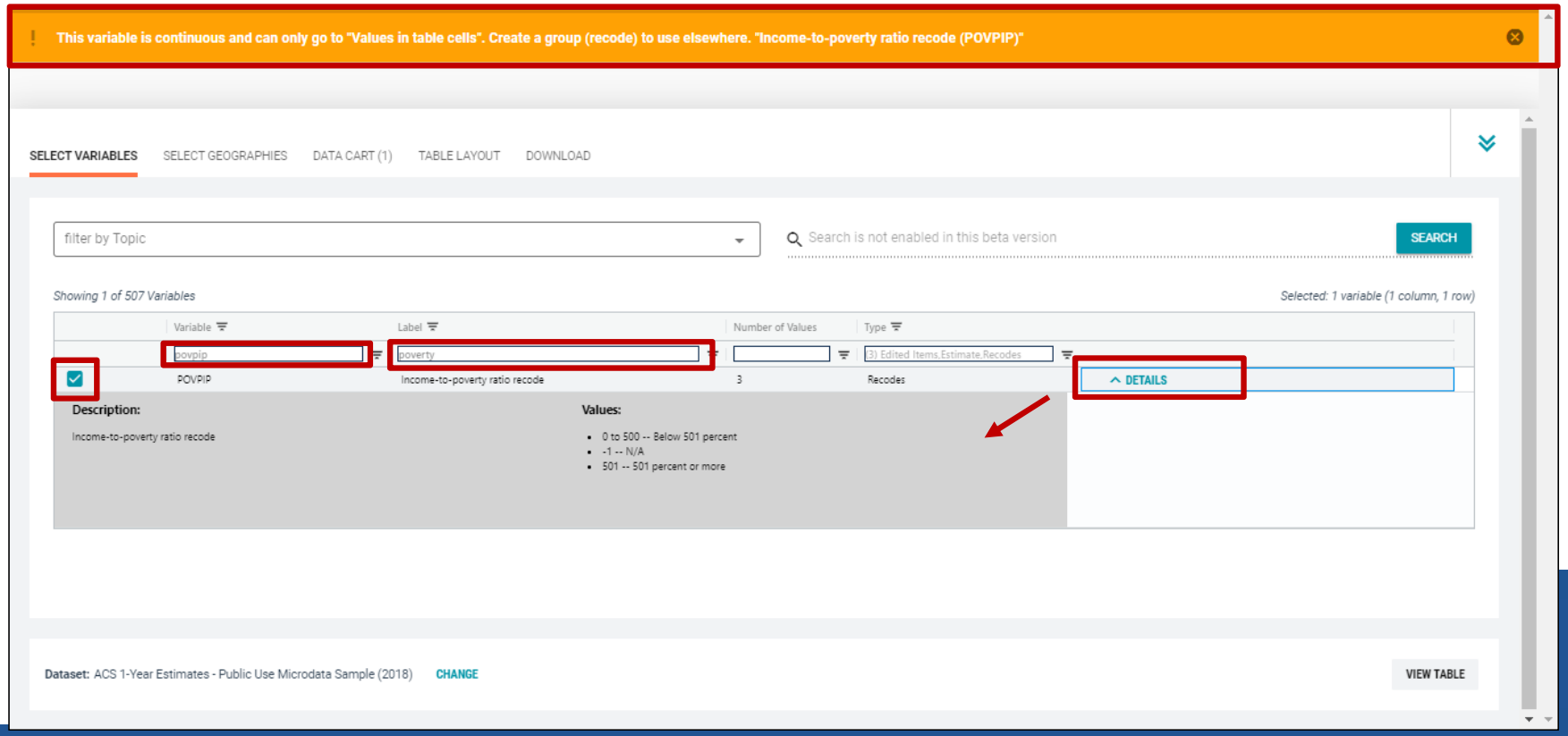
United States Census 2020

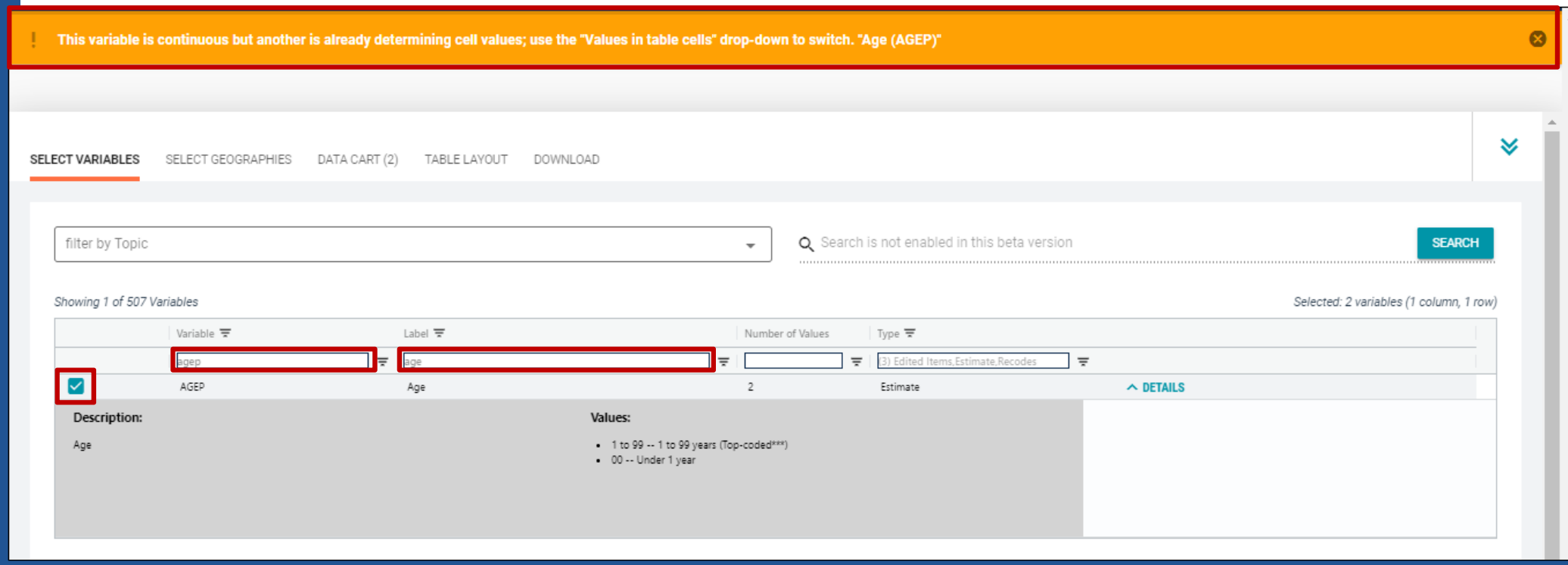
- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest



- **Select variable for Poverty**:
  - Type “POVP” in the Variable search box or type “Poverty” in the label search box
  - Check the box to the left of POVP 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 **State** and check the box for **Texas**

your future
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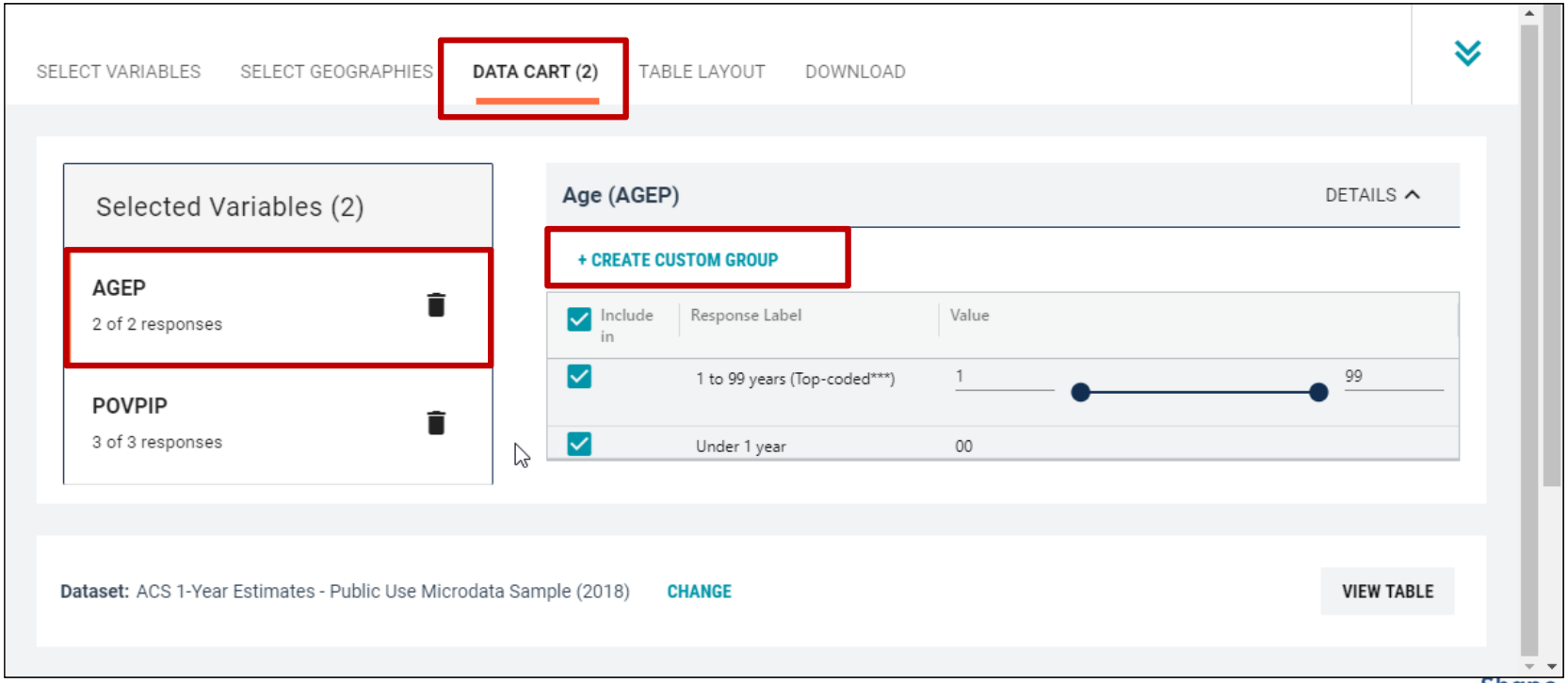
Census 2020

- **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)



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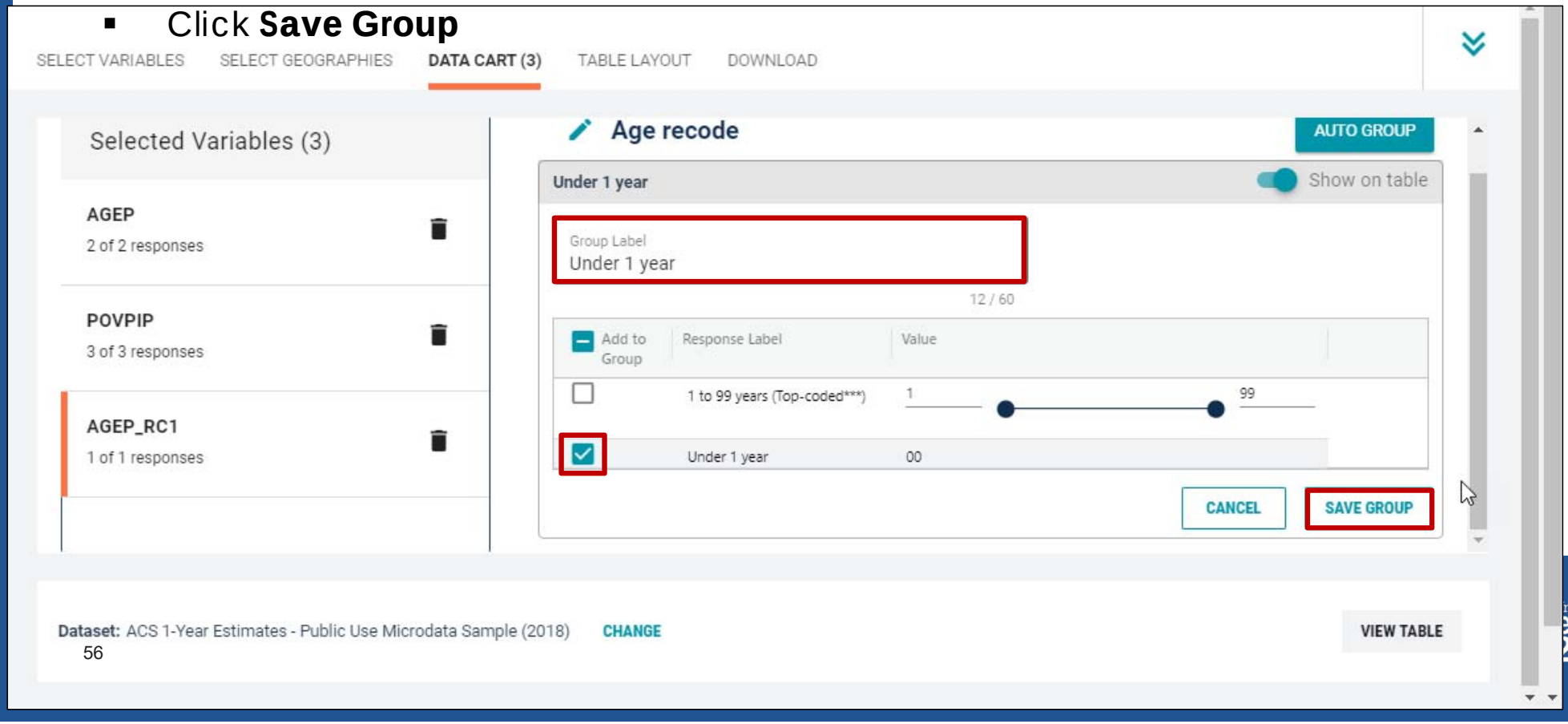
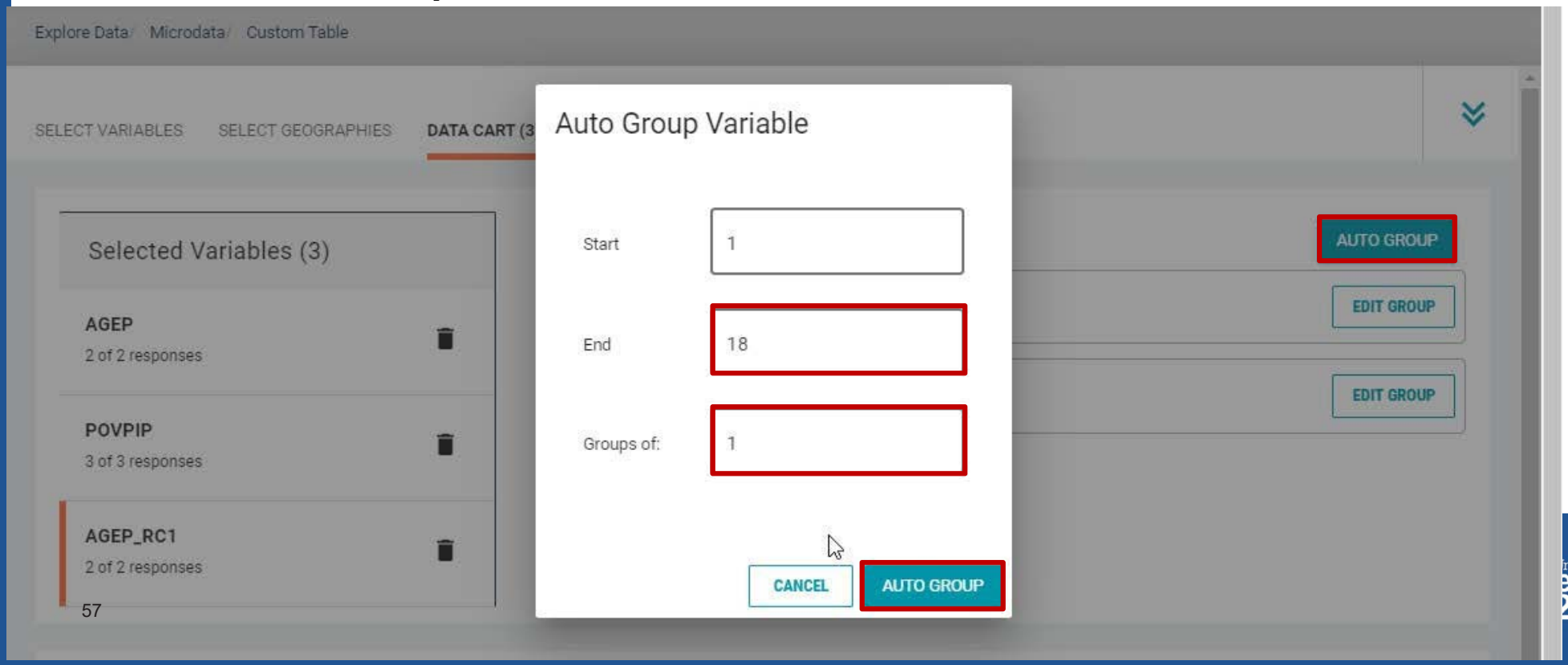
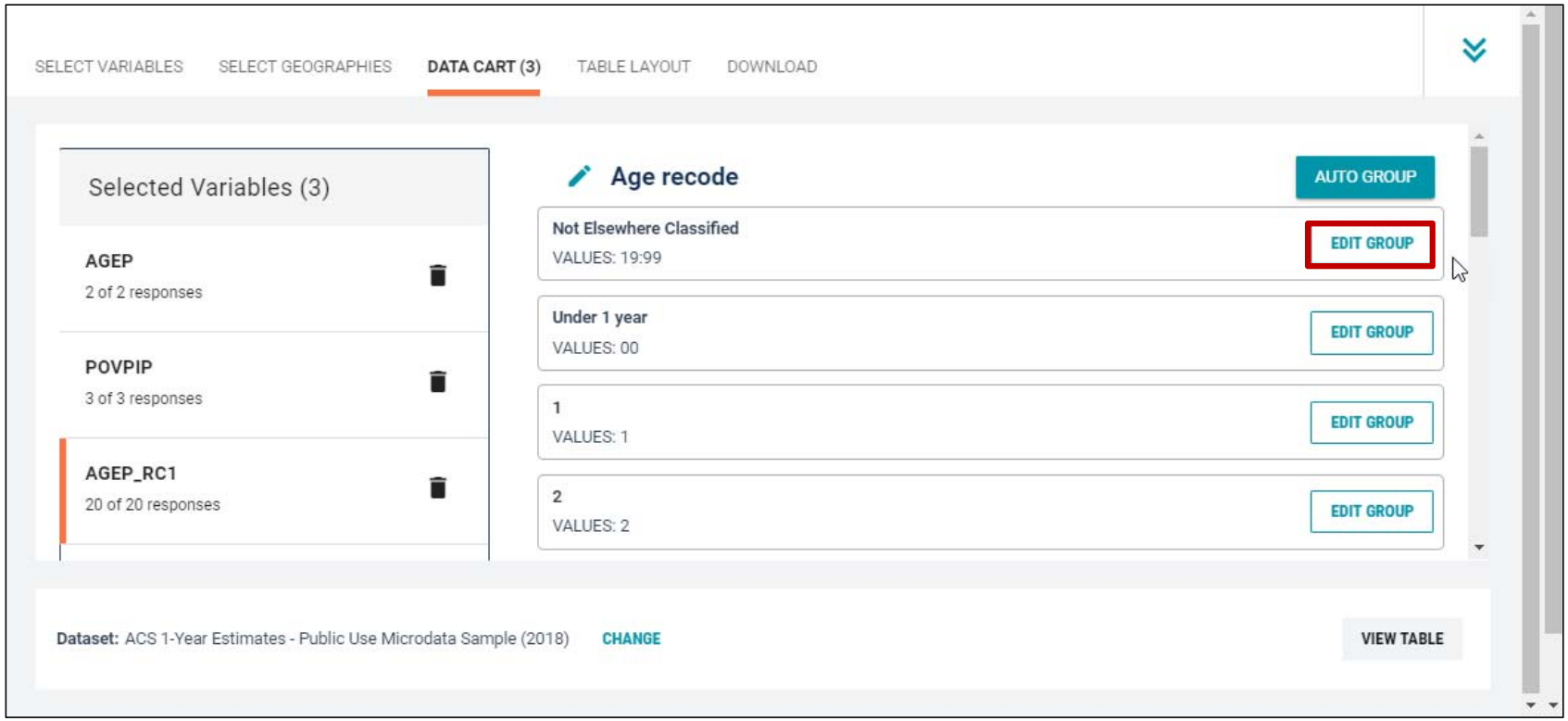
- Categorize (recode) your age variable:
  - Click into **Group label** and type a label for the first category you want to create (e.g. Under 1 year)
  - Check the box next **Under 1 Year**
  - Click **Save Group**



- 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



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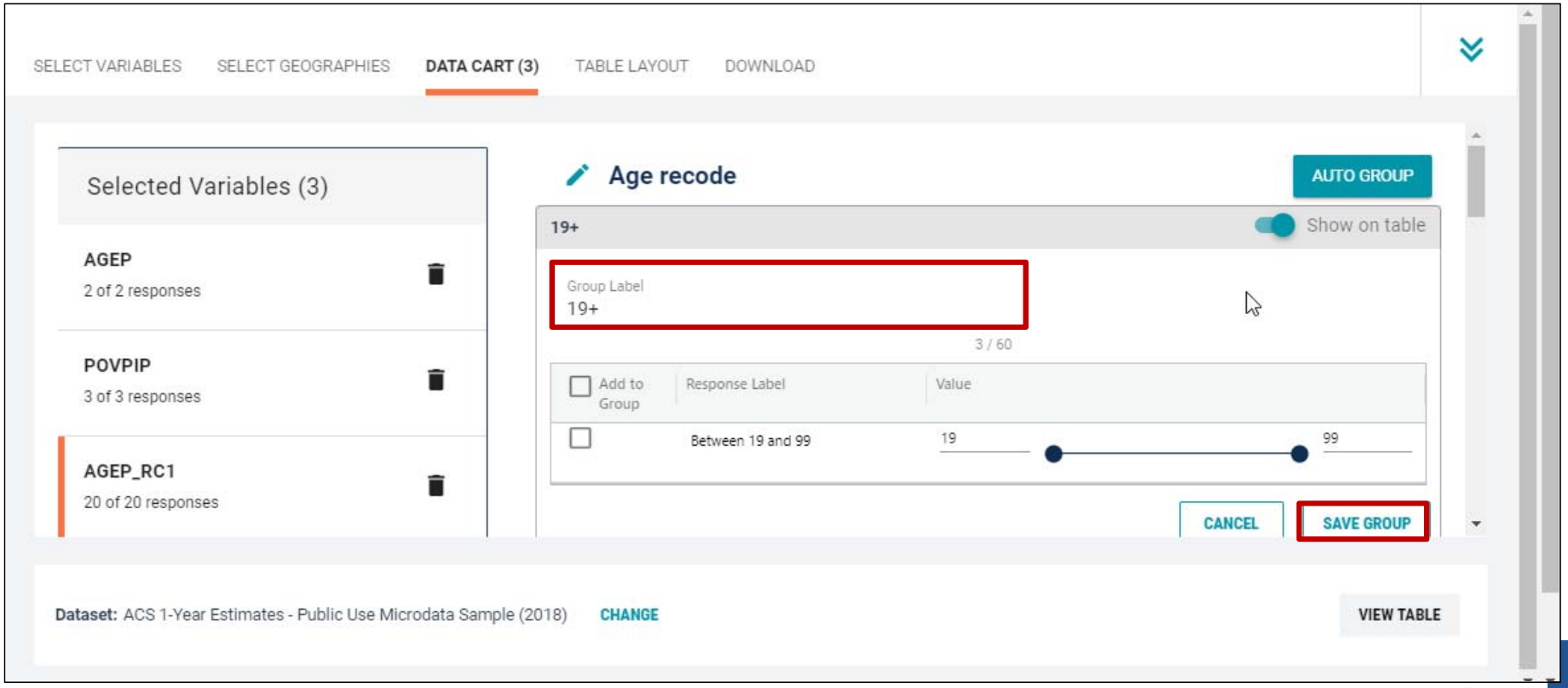
- Categorize (recode) your age variable:
  - Click into **Group Label** and rename the category (e.g. 19+)
  - Click **Save Group** in the lowerright



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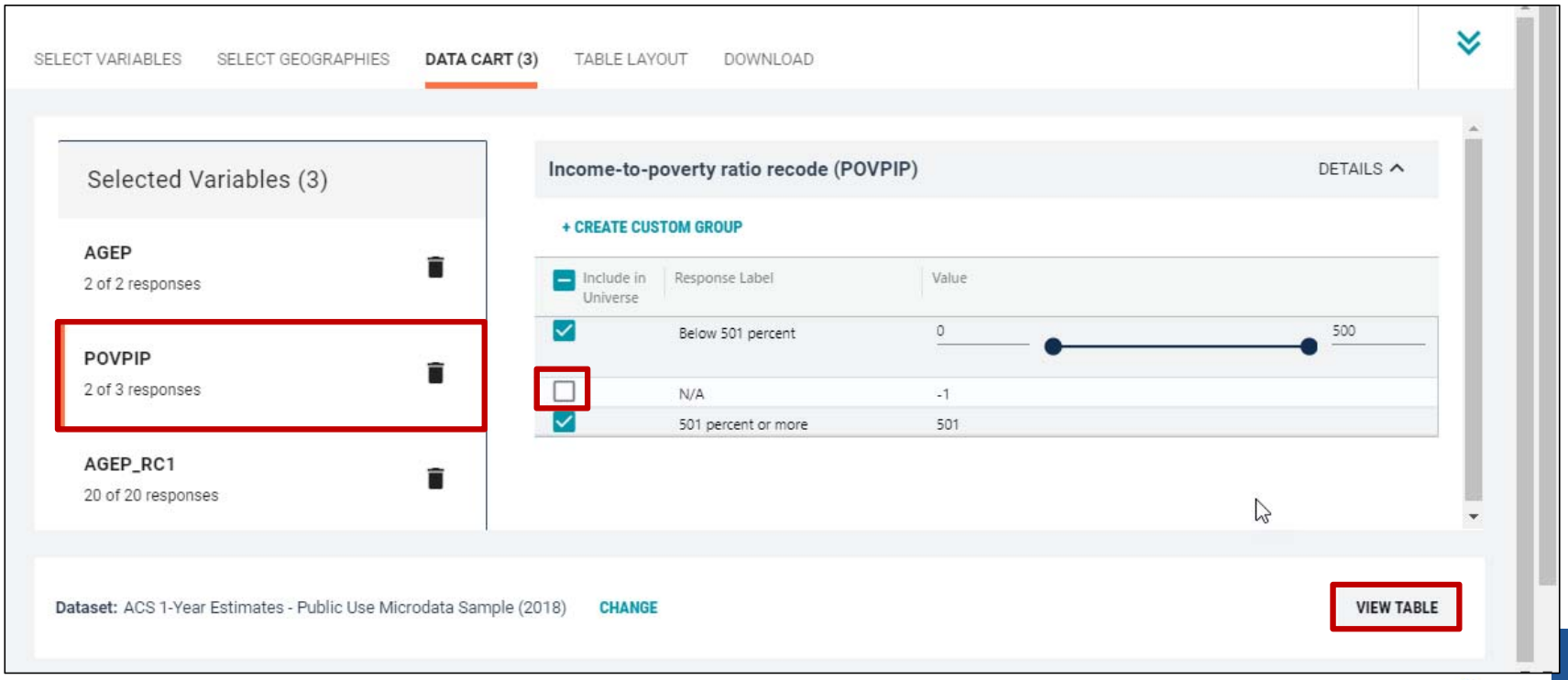
- **Categorize (recode) your poverty variable**:
  - Click the **POVPIP** variable on the left
  - Uncheck the box for **NA** (people not in the poverty universe)
  - Click **Create Custom Group** to begin specifying income-to-poverty ratios



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- 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**

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (4) | TABLE LAYOUT | DOWNLOAD

Selected Variables (4)

AGEP
2 of 2 responses

POVPIP
2 of 3 responses

POVPIP_RC1
1 of 1 responses

Income-to-poverty ratio recode recode

AUTO GROUP

Below Poverty

Show on table

Group Label
Below Poverty

13 / 60

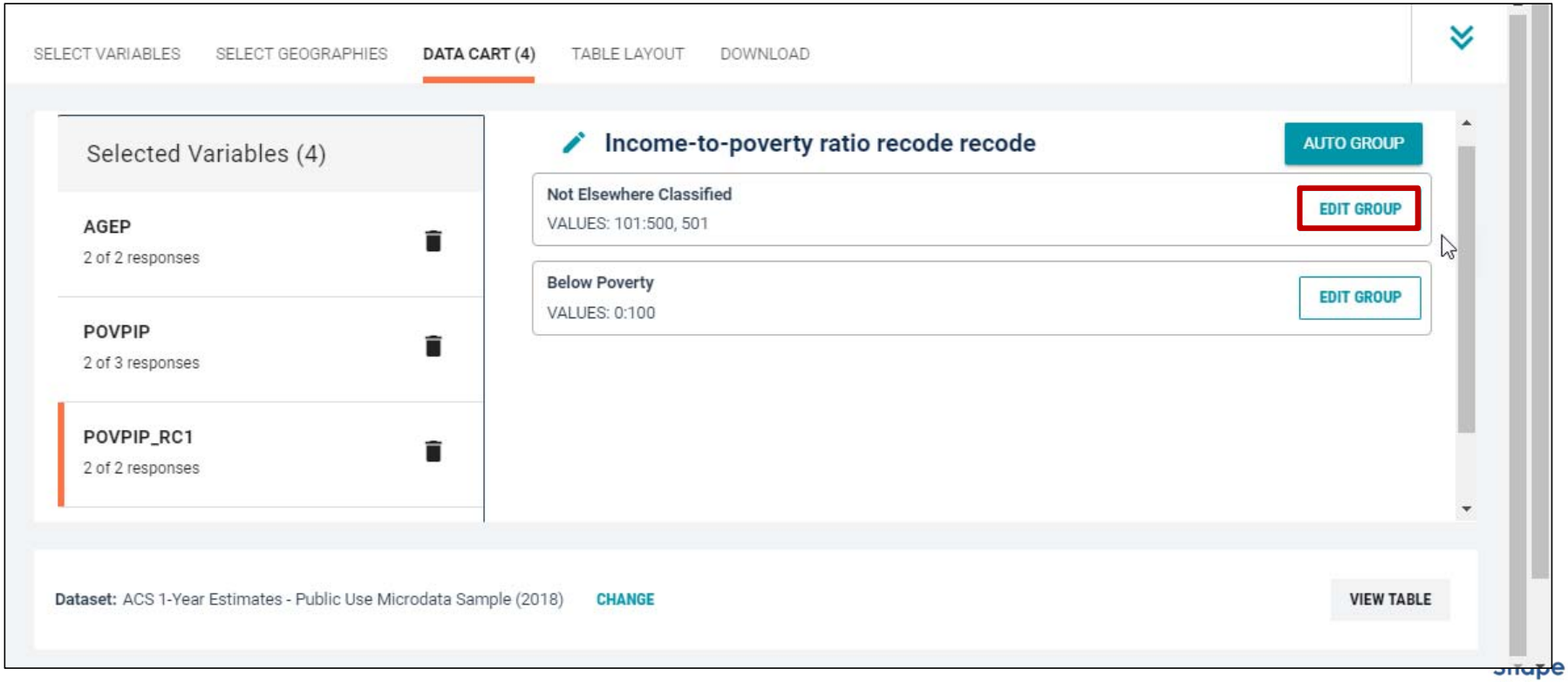
Add to Group	Response Label	Value	
☑	Below 501 percent	0	100
☐	501 percent or more	501	

CANCEL | SAVE GROUP

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

- 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



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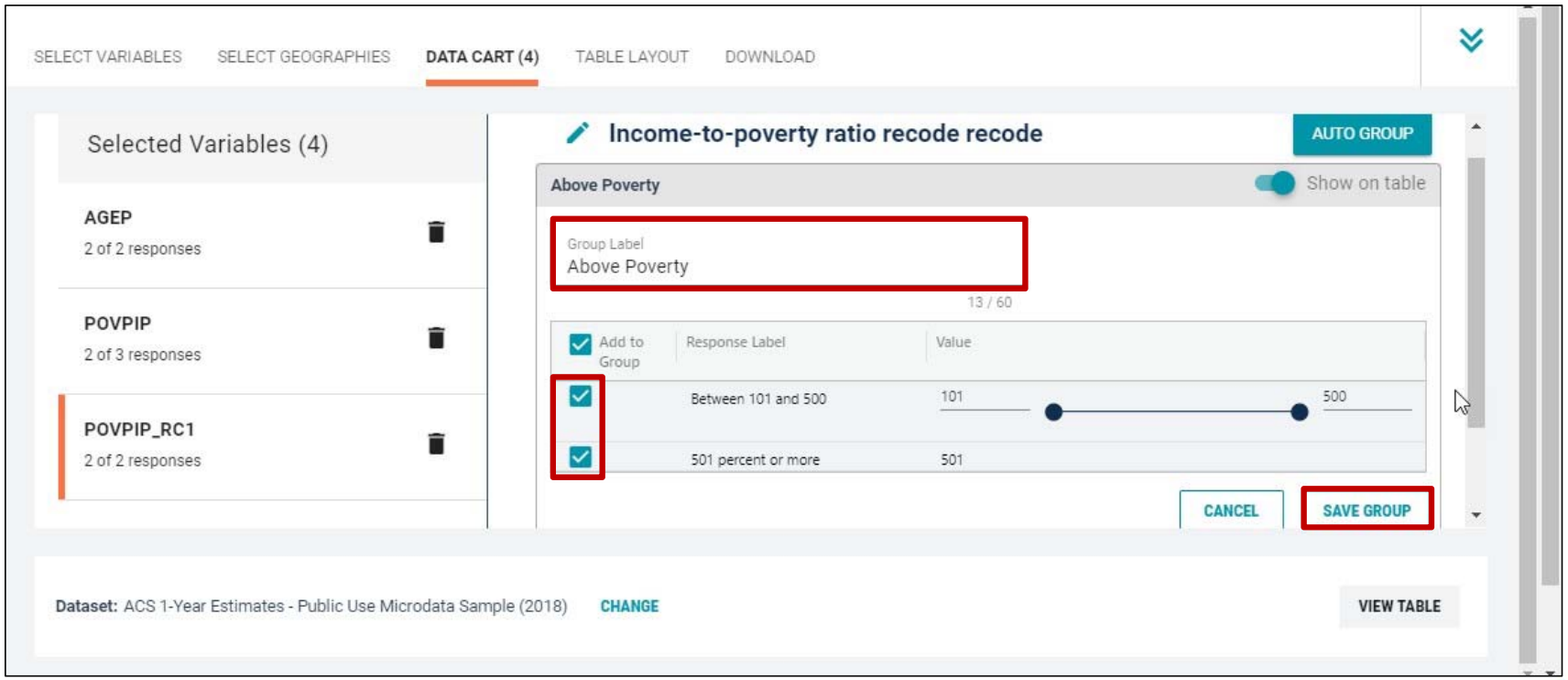
- Categorize (recode) your poverty variable:
  - Click into **Group Label** and rename the category (e.g. Above Poverty)
  - Check the boxes for **Between 101 and 500** and **501 percent or more**
  - Click **Save Group** in the lower right



Shape your future START HERE >
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- Confirm variable selections
  - Confirm variable selections and click the **Table Layout** tab

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (4) | TABLE LAYOUT | DOWNLOAD

Selected Variables (4)

AGEP
2 of 2 responses

POVPIP
2 of 3 responses

POVPIP_RC1
2 of 2 responses

AGEP_RC1
20 of 20 responses

Income-to-poverty ratio recode recode

AUTO GROUP

Below Poverty
VALUES: 0:100
EDIT GROUP

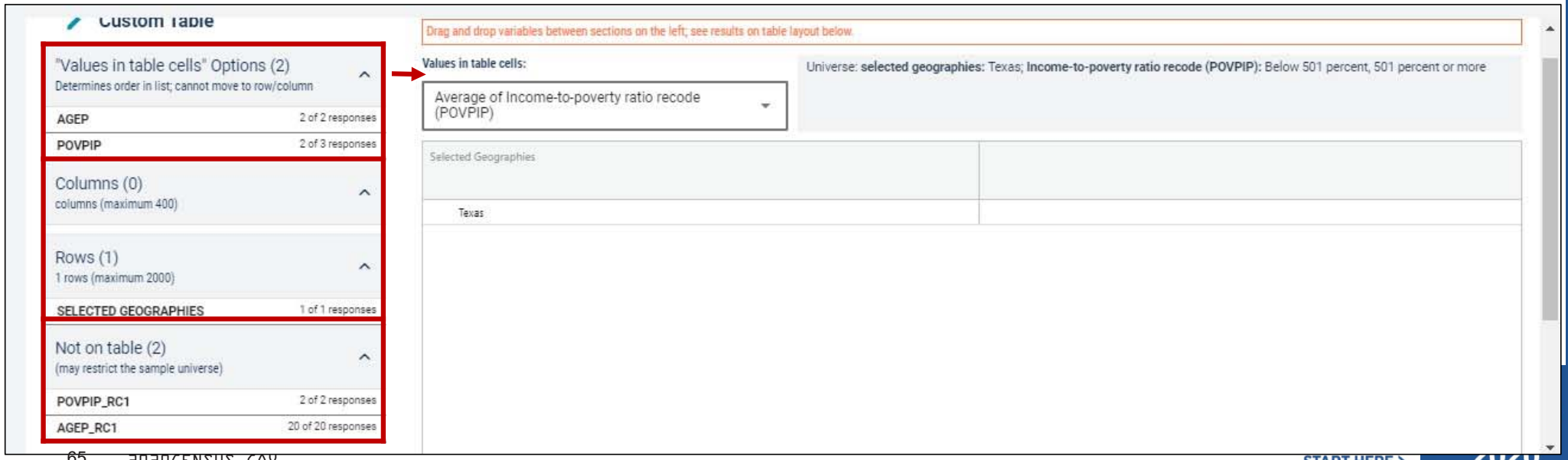
Above Poverty
VALUES: 101:500, 501
EDIT GROUP

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

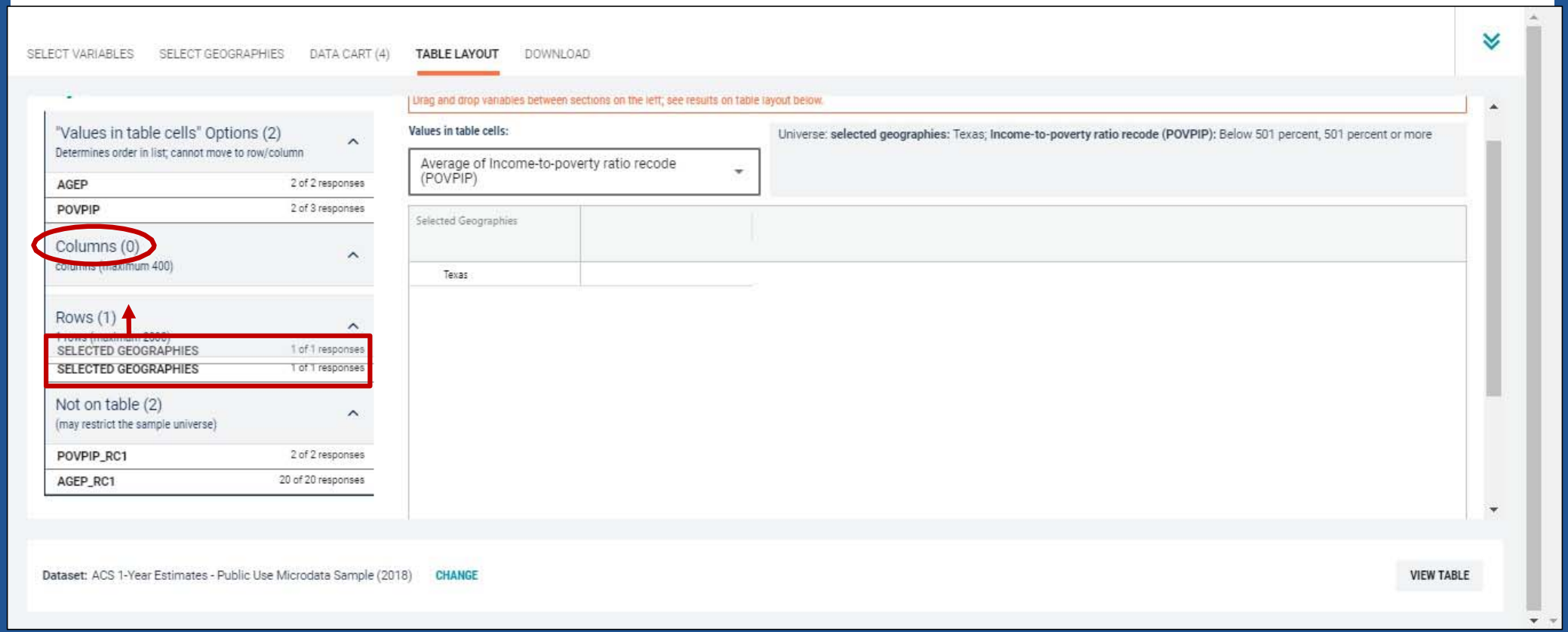
VIEW TABLE

Shape your future START HERE >
United States Census 2020

- 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.**

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (4) | TABLE LAYOUT | DOWNLOAD

Drag and drop variables between sections on the left; see results on table layout below.

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

AGEP	2 of 2 responses
POVPIP	2 of 3 responses

Columns (1)
1 columns (maximum 400)

SELECTED GEOGRAPHIES	1 of 1 responses

Rows (0)

Not on table (2)

POVPIP_RC1	2 of 2 responses
POVPIP_RC1	2 of 2 responses
AGEP_RC1	20 of 20 responses

Values in table cells:

Average of Income-to-poverty ratio recode (POVPIP)

Universe: **selected geographies:** Texas; **Income-to-poverty ratio recode (POVPIP):** Below 501 percent, 501 percent or more

Selected Geographies

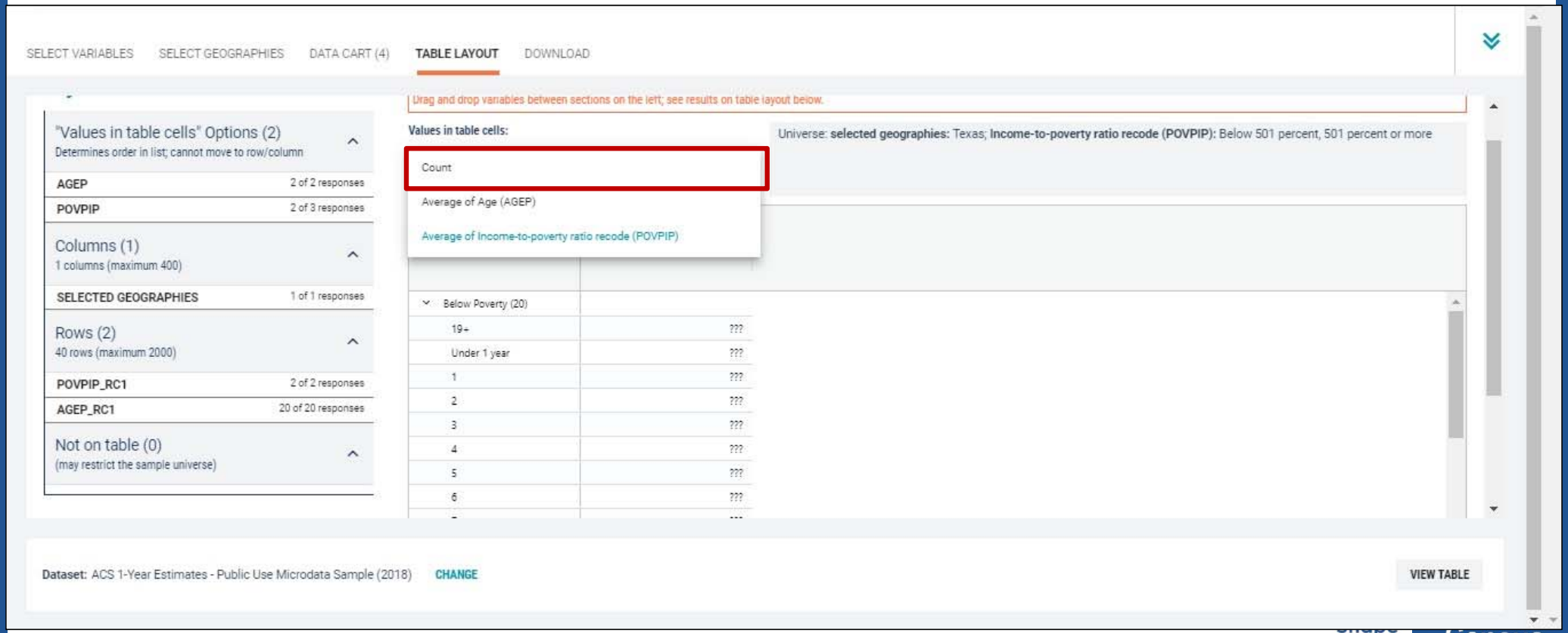
Texas

???

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

- 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.



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

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (4) | TABLE LAYOUT | DOWNLOAD

Drag and drop variables between sections on the left; see results on table layout below.

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

AGEP	2 of 2 responses
POVPIP	2 of 3 responses

Columns (1)
1 columns (maximum 400)

SELECTED GEOGRAPHIES	1 of 1 responses

Rows (2)
40 rows (maximum 2000)

POVPIP_RC1	2 of 2 responses
AGEP_RC1	20 of 20 responses

Not on table (0)
(may restrict the sample universe)

Values in table cells:

Universe: **selected geographies:** Texas; **Income-to-poverty ratio recode (POVPIP):** Below 501 percent, 501 percent or more

Count

Show Total

Age recode (AGEP_RC1)	Selected Geographies Texas
??? (40)	0
Below Poverty (20)	0
19+	???
Under 1 year	???
1	???
2	???
3	???
4	???

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2018) CHANGE

VIEW TABLE

Shape your future START HERE >
United States Census 2020

- View Table:
  - An estimated 78,092 people under the age of 1 in poverty in Texas in 2018

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample CHANGE DATASET

Geography: 1 geographies selected CHANGE GEOGRAPHY

Vintage: 2018

Weighting: PUMS person weight

On Columns: Selected Geographies

On Rows: POVPIP_RC1, AGEP_RC1

Not on Table

"Values in table cells" Options: AGEP, POVPIP

Values in table cells: Count

Universe: **selected geographies:** Texas; **Income-to-poverty ratio recode (POVPIP):** Below 501 percent, 501 percent or more

Show Total

Age recode (AGEP_RC1)	Selected Geographies Texas
Total (40)	28,073,308
Total Below Poverty (20)	4,231,412
19+	2,595,088
Under 1 year	78,092
1	99,591
2	85,230
3	94,037
	90,296

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census.gov/data/academy/webinars/upcoming.html

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cedsci.feedback@census.gov

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Center for Enterprise Dissemination
U.S. Census Bureau
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301-763-3493

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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