Census API

Types of ACS Tables in API:

Table type		Table code	Description
Detailed	Base	B	- Most detailed ACS statistics
	Collapsed	C	- Each table covers one primary topic
Subject		S	- May contain some cross tabulation
Data Profiles		DP	- Most common ACS statistics - Derived from tables
Comparison Profiles		CP	- Each profile covers many topics

List of tables and table ID's by year found here: Table Shells and Table List (census.gov)

	A	B
1	**Table ID**	**Table Title**
2	B01001	SEX BY AGE
3	B01001A	SEX BY AGE (WHITE ALONE)
4	C01001A	SEX BY AGE (WHITE ALONE)
5	B01001B	SEX BY AGE (BLACK OR AFRICAN AMERICAN ALONE)
6	C01001B	SEX BY AGE (BLACK OR AFRICAN AMERICAN ALONE)
7	B01001C	SEX BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE)
8	C01001C	SEX BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE)
9	B01001D	SEX BY AGE (ASIAN ALONE)
10	C01001D	SEX BY AGE (ASIAN ALONE)
11	B01001E	SEX BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)
12	C01001E	SEX BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)
13	B01001F	SEX BY AGE (SOME OTHER RACE ALONE)
14	C01001F	SEX BY AGE (SOME OTHER RACE ALONE)
15	B01001G	SEX BY AGE (TWO OR MORE RACES)
16	C01001G	SEX BY AGE (TWO OR MORE RACES)
17	B01001H	SEX BY AGE (WHITE ALONE, NOT HISPANIC OR LATINO)
18	C01001H	SEX BY AGE (WHITE ALONE, NOT HISPANIC OR LATINO)
19	B01001I	SEX BY AGE (HISPANIC OR LATINO)
20	C01001I	SEX BY AGE (HISPANIC OR LATINO)
21	B01002	MEDIAN AGE BY SEX
22	B01002A	MEDIAN AGE BY SEX (WHITE ALONE)
23	B01002B	MEDIAN AGE BY SEX (BLACK OR AFRICAN AMERICAN ALONE)
24	B01002C	MEDIAN AGE BY SEX (AMERICAN INDIAN AND ALASKA NATIVE ALONE)
25	B01002D	MEDIAN AGE BY SEX (ASIAN ALONE)
26	B01002E	MEDIAN AGE BY SEX (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)
27	B01002F	MEDIAN AGE BY SEX (SOME OTHER RACE ALONE)

Table ID numbering:

B01001A

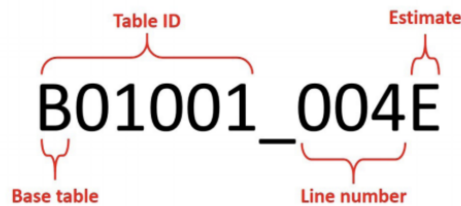| B	= Data Product Type (Base Table)
01	= Subject (Age)
001	= Sequential Number (Total population)
A	= Race/Hispanic Origin (White Alone) (optional)

More types of tables and detailed info here: Table IDs Explained (census.gov)

Building an API Request: Census API structure

Base	https://api.census.gov/data
Year	/2019
Dataset	/acs/acs1
Variable call	?get=NAME,B01001_001E
Geographic filter	&for= state:36 &for=county:061&in=state:36 &for=public%20use%20microdata%20area:03805&in=state:36

Components of Variable Name:

- Table ID
- Variable line number
- Data point
  - Estimate (E)
  - Margin of error (ME)
  - Percent (P)
  - Percent margin of error (PEM)

Variable Name Example:

DP05 = Table ID (Demographic Characteristics)

0003 = Line Number (Total Population Women)

E = Estimate

DP05_0003E

Full API call:
https://api.census.gov/data/2019/acs/acs1?get=NAME,B01001_001E&for=public%20use%20microdata%20area:03805&in=state:36

^ gives total population for the Upper East Side PUMA in NYS

More Resources:

- List of Datasets available in Census API: [Census Data API: /data](#)
- [Hack the Census: Census Tools for Developers](#)
- [Census Data API User Guide](#)