(Updated) Final Project Skills Checklist for:

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| Final Project Overview | Your Info |
| Questions Explored | 1. Looking at the data for all states in the US 2. Looking at the data for the counties in the state of California 3. Looking at the data for the places in the state of California 4. Looking at the data for all states in the US in 2021 and its differences with 2020 |
| Census Variables Used  (with description) | 1. DP02\_0116E: Estimate of the population (5 years and over) that speaks Spanish at home 2. DP02\_0116PE: Percent of the population (5 years and over) that speaks Spanish at home |

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| State, County and Places API Results | Screengrab of the Map/Chart that uses that API data  Note: The E and PE variables must be each used at least once below |
| State Level API Call | [https://api.census.gov/data/2020/acs/acs5/profile?get=NAME,DP02\_0116E,DP02\_0116PE&for=state:\*](https://api.census.gov/data/2020/acs/acs5/profile?get=NAME,DP02_0116E,DP02_0116PE&for=state:*) |
| County Level API Call | [https://api.census.gov/data/2020/acs/acs5/profile?get=NAME,DP02\_0116E,DP02\_0116PE&for=county:\*&in=state:06](https://api.census.gov/data/2020/acs/acs5/profile?get=NAME,DP02_0116E,DP02_0116PE&for=county:*&in=state:06) |
| Places Level API Call | [https://api.census.gov/data/2020/acs/acs5/profile?get=NAME,DP02\_0116E,DP02\_0116PE&for=place:\*&in=state:06](https://api.census.gov/data/2020/acs/acs5/profile?get=NAME,DP02_0116E,DP02_0116PE&for=place:*&in=state:06) |

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| Fourth Data Source: Rural/Urban Results | | Screengrab |
| Code cell merging Rural/Urban data you’re your County API data | |  |
| Bar Chart showing the average of your variable (either the E or PE version) for the Rural/Urban categories | |  |
| Fifth Data Source | Info and Screengrab | |
| Description of your fifth data source | Looking at the data for all states in the US in 2021 and its differences with 2020 | |
| Code cell merging 5th Data Source with the appropriate API Geography level data |  | |
| Chart using the fifth data source |  | |

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| *Data Cleanup* Skills | Notebook(s) Skill Demonstrated and Screengrab of the code cell |
| Keeping or Dropping Column | States\_DataWrangling:    Counties\_DataWrangling:    Places\_DataWrangling:    2021\_DataWrangling: |
| Reordering Columns | States\_DataWrangling:    Counties\_DataWrangling:    Places\_DataWrangling:    2021\_DataWrangling: |
| Renaming Columns | States\_DataWrangling:    Counties\_DataWrangling:    Places\_DataWrangling:    2021\_DataWrangling: |
| Splitting Columns | Counties\_DataWrangling:    Places\_DataWrangling: |

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| *Filtering and Sorting* Skills | Notebook(s) Skill Demonstrated and Screengrab of the code cell |
| Filtering with query() | States\_DataWrangling:    2021\_DataWrangling: |
| Top N | States\_Display:    Counties\_Display:    Places\_Display:    2021\_Display: |
| Sorting (other than for Top N) | States\_Display:    Counties\_Display:    Places\_Display:    2021\_Display: |

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| *Joining* Skills | Notebook(s) Skill Demonstrated and Screengrab of the code cell |
| Joining with County Rural/Urban | Counties\_DataWrangling: |
| Other Join: | States\_DataWrangling:    2021\_DataWrangling: |

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| *plotly* Skills | Map/Chart Screengrab and Screengrab of the code cell |
| Tiled State Map |  |
| Tiled County Map |  |
| Other Maps and/or Charts | States\_Display:              Counties\_Display:                        Places\_Display:          2021\_Display: |
| Formatting   1. Bar Labels 2. Template 3. Tooltips | States\_Display:          Counties\_Display:                    Places\_Display:          2021\_Display: |