**CODE**

Big Query:

Selecting zip code level data for states:

SELECT

acs18.geo\_id,

boundaries.zip\_code,

boundaries.state\_name,

boundaries.county,

total\_pop,

white\_pop,

black\_pop,

hispanic\_pop,

poverty,

percent\_income\_spent\_on\_rent,

employed\_pop,

commuters\_by\_public\_transportation,

employed\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities,

boundaries.zip\_code\_geom,

FROM

`bigquery-public-data.census\_bureau\_acs.zip\_codes\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.zip\_codes` boundaries

ON

acs18.geo\_id = boundaries.zip\_code

WHERE

boundaries.state\_name = 'New York' OR

boundaries.state\_name = 'California' OR

boundaries.state\_name = 'Michigan' OR

boundaries.state\_name = 'Illinois' OR

boundaries.state\_name = 'Massachusetts'

**Michigan county data:**

WITH Primary\_Care\_Shortage AS (

SELECT County\_Name, AVG(HPSA\_Score) as HPSA\_Score

FROM `bigquery-public-data.sdoh\_hrsa\_shortage\_areas.hpsa\_primary\_care`

WHERE HPSA\_Withdrawn\_Date IS NULL AND Common\_State\_Abbr = "MI"

GROUP BY County\_Name

ORDER BY County\_Name

)

SELECT

acs18.geo\_id, boundaries.county\_name,

total\_pop,

white\_pop/total\_pop AS pc\_white,

black\_pop/total\_pop AS pc\_black,

hispanic\_pop/total\_pop AS pc\_hispanic,

poverty/total\_pop AS pc\_income\_below\_poverty\_line,

percent\_income\_spent\_on\_rent,

commuters\_by\_public\_transportation/employed\_pop AS pc\_pub\_trans\_commuters,

employed\_education\_health\_social/ employed\_pop AS pc\_emp\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food/employed\_pop AS pc\_emp\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities/employed\_pop AS pc\_emp\_transportation\_warehousing\_utilities,

HPSA\_Score

FROM

`bigquery-public-data.census\_bureau\_acs.county\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.counties` boundaries

ON

acs18.geo\_id = boundaries.geo\_id

JOIN Primary\_Care\_Shortage P

ON boundaries.county\_name = p.County\_Name

WHERE

boundaries.state\_fips\_code = '26'

ORDER BY boundaries.county\_name

**Massachusetts county data:**

WITH Primary\_Care\_Shortage AS (

SELECT County\_Name, AVG(HPSA\_Score) as HPSA\_Score

FROM `bigquery-public-data.sdoh\_hrsa\_shortage\_areas.hpsa\_primary\_care`

WHERE HPSA\_Withdrawn\_Date IS NULL AND Common\_State\_Abbr = "MA"

GROUP BY County\_Name

ORDER BY County\_Name

)

SELECT

acs18.geo\_id, boundaries.county\_name,

total\_pop,

white\_pop/total\_pop AS pc\_white,

black\_pop/total\_pop AS pc\_black,

hispanic\_pop/total\_pop AS pc\_hispanic,

poverty/total\_pop AS pc\_income\_below\_poverty\_line,

percent\_income\_spent\_on\_rent,

commuters\_by\_public\_transportation/employed\_pop AS pc\_pub\_trans\_commuters,

employed\_education\_health\_social/ employed\_pop AS pc\_emp\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food/employed\_pop AS pc\_emp\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities/employed\_pop AS pc\_emp\_transportation\_warehousing\_utilities,

HPSA\_Score

FROM

`bigquery-public-data.census\_bureau\_acs.county\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.counties` boundaries

ON

acs18.geo\_id = boundaries.geo\_id

JOIN Primary\_Care\_Shortage P

ON boundaries.county\_name = p.County\_Name

WHERE

boundaries.state\_fips\_code = '25'

ORDER BY boundaries.county\_name

**New York county data:**

WITH Primary\_Care\_Shortage AS (

SELECT County\_Name, AVG(HPSA\_Score) as HPSA\_Score

FROM `bigquery-public-data.sdoh\_hrsa\_shortage\_areas.hpsa\_primary\_care`

WHERE HPSA\_Withdrawn\_Date IS NULL AND Common\_State\_Abbr = "NY"

GROUP BY County\_Name

ORDER BY County\_Name

)

SELECT

acs18.geo\_id, boundaries.county\_name,

total\_pop,

white\_pop/total\_pop AS pc\_white,

black\_pop/total\_pop AS pc\_black,

hispanic\_pop/total\_pop AS pc\_hispanic,

poverty/total\_pop AS pc\_income\_below\_poverty\_line,

percent\_income\_spent\_on\_rent,

commuters\_by\_public\_transportation/employed\_pop AS pc\_pub\_trans\_commuters,

employed\_education\_health\_social/ employed\_pop AS pc\_emp\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food/employed\_pop AS pc\_emp\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities/employed\_pop AS pc\_emp\_transportation\_warehousing\_utilities,

HPSA\_Score

FROM

`bigquery-public-data.census\_bureau\_acs.county\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.counties` boundaries

ON

acs18.geo\_id = boundaries.geo\_id

JOIN Primary\_Care\_Shortage P

ON boundaries.county\_name = p.County\_Name

WHERE

boundaries.state\_fips\_code = '36'

ORDER BY boundaries.county\_name

**California county data:**

WITH Primary\_Care\_Shortage AS (

SELECT County\_Name, AVG(HPSA\_Score) as HPSA\_Score

FROM `bigquery-public-data.sdoh\_hrsa\_shortage\_areas.hpsa\_primary\_care`

WHERE HPSA\_Withdrawn\_Date IS NULL AND Common\_State\_Abbr = "CA"

GROUP BY County\_Name

ORDER BY County\_Name

)

SELECT

acs18.geo\_id, boundaries.county\_name,

total\_pop,

white\_pop/total\_pop AS pc\_white,

black\_pop/total\_pop AS pc\_black,

hispanic\_pop/total\_pop AS pc\_hispanic,

poverty/total\_pop AS pc\_income\_below\_poverty\_line,

percent\_income\_spent\_on\_rent,

commuters\_by\_public\_transportation/employed\_pop AS pc\_pub\_trans\_commuters,

employed\_education\_health\_social/ employed\_pop AS pc\_emp\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food/employed\_pop AS pc\_emp\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities/employed\_pop AS pc\_emp\_transportation\_warehousing\_utilities,

HPSA\_Score

FROM

`bigquery-public-data.census\_bureau\_acs.county\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.counties` boundaries

ON

acs18.geo\_id = boundaries.geo\_id

JOIN Primary\_Care\_Shortage P

ON boundaries.county\_name = p.County\_Name

WHERE

boundaries.state\_fips\_code = '06'

ORDER BY boundaries.county\_name

**New York county data:**

WITH Primary\_Care\_Shortage AS (

SELECT County\_Name, AVG(HPSA\_Score) as HPSA\_Score

FROM `bigquery-public-data.sdoh\_hrsa\_shortage\_areas.hpsa\_primary\_care`

WHERE HPSA\_Withdrawn\_Date IS NULL AND Common\_State\_Abbr = "NY"

GROUP BY County\_Name

ORDER BY County\_Name

)

SELECT

acs18.geo\_id, boundaries.county\_name,

total\_pop,

white\_pop/total\_pop AS pc\_white,

black\_pop/total\_pop AS pc\_black,

hispanic\_pop/total\_pop AS pc\_hispanic,

poverty/total\_pop AS pc\_income\_below\_poverty\_line,

percent\_income\_spent\_on\_rent,

commuters\_by\_public\_transportation/employed\_pop AS pc\_pub\_trans\_commuters,

employed\_education\_health\_social/ employed\_pop AS pc\_emp\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food/employed\_pop AS pc\_emp\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities/employed\_pop AS pc\_emp\_transportation\_warehousing\_utilities,

HPSA\_Score

FROM

`bigquery-public-data.census\_bureau\_acs.county\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.counties` boundaries

ON

acs18.geo\_id = boundaries.geo\_id

JOIN Primary\_Care\_Shortage P

ON boundaries.county\_name = p.County\_Name

WHERE

boundaries.state\_fips\_code = '36'

ORDER BY boundaries.county\_name

**Illinois county data:**

WITH Primary\_Care\_Shortage AS (

SELECT County\_Name, AVG(HPSA\_Score) as HPSA\_Score

FROM `bigquery-public-data.sdoh\_hrsa\_shortage\_areas.hpsa\_primary\_care`

WHERE HPSA\_Withdrawn\_Date IS NULL AND Common\_State\_Abbr = "Il"

GROUP BY County\_Name

ORDER BY County\_Name

)

SELECT

acs18.geo\_id, boundaries.county\_name,

total\_pop,

white\_pop/total\_pop AS pc\_white,

black\_pop/total\_pop AS pc\_black,

hispanic\_pop/total\_pop AS pc\_hispanic,

poverty/total\_pop AS pc\_income\_below\_poverty\_line,

percent\_income\_spent\_on\_rent,

commuters\_by\_public\_transportation/employed\_pop AS pc\_pub\_trans\_commuters,

employed\_education\_health\_social/ employed\_pop AS pc\_emp\_education\_health\_social,

employed\_arts\_entertainment\_recreation\_accommodation\_food/employed\_pop AS pc\_emp\_arts\_entertainment\_recreation\_accommodation\_food,

employed\_transportation\_warehousing\_utilities/employed\_pop AS pc\_emp\_transportation\_warehousing\_utilities,

HPSA\_Score

FROM

`bigquery-public-data.census\_bureau\_acs.county\_2018\_5yr` acs18

JOIN

`bigquery-public-data.geo\_us\_boundaries.counties` boundaries

ON

acs18.geo\_id = boundaries.geo\_id

JOIN Primary\_Care\_Shortage P

ON boundaries.county\_name = p.County\_Name

WHERE

boundaries.state\_fips\_code = '17'

ORDER BY boundaries.county\_name