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-- This stored procedure takes min and max of either median household income or number of
-- households from front-end
-- It then finds out locations with median household income or number of households
-- within this range
-- Developer: Mei Wei. https://github.com/weicoding1
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```
CREATE PROC sp_getLocation
@min_median int =NULL,
@max_median int =NULL,
@min_num_household decimal (18,10) =NULL,
@max_num_household decimal (18,10) =NULL
AS
BEGIN
    SET NOCOUNT ON;
    WITH T AS (
        SELECT
            L.ID,
            L.STATE_CODE,
            L.STATE_NAME,
            L.STATE_AB,
            L.COUNTY,
            L.CITY,
            L.PLACE,
            L.ZIP_CODE,
            L.AREA_CODE,
            G.LATITUDE,
            G.GRATITUDE,
            G.AREA_LAND,
            G.AREA_WATER,
            G.CENSUS_TYPE,
            G.CENSUS_PRIMARY,
            I.MEAN,
            I.MEDIAN,
            I.STANDEV,
            I.NUM_HOUSEHOLD
        FROM dbo.location L
        JOIN dbo.geographical G
        ON L.ID=G.ID
        JOIN dbo.income I
        ON G.LATITUDE=I.LATITUDE AND G.GRATITUDE=I.GRATITUDE
    )
    SELECT * INTO #TEMP FROM T
    IF @min_median IS NOT NULL
    BEGIN
        SELECT
            STATE_NAME,
            COUNTY,
            CITY,
            PLACE,
            CENSUS_TYPE,
            AREA_LAND,
            AREA_WATER
        FROM #TEMP
        WHERE MEDIAN
        BETWEEN @min_median
        AND @max_median
    END
```

```
ELSE
  BEGIN
    SELECT  STATE_NAME,
            COUNTY,
            CITY,
            PLACE,
            CENSUS_TYPE,
            AREA_LAND,
            AREA_WATER
    FROM    #TEMP
    WHERE   NUM_HOUSEHOLD
    BETWEEN @min_num_household
    AND     @max_num_household
  END
END
```