

-- This stored proc takes state name(abbr), county, city or zipcode input from front-end  
-- Users provide either zipcode (text input) or state/county/city from dropdowns in UI  
-- Developer: Mei Wei. <https://github.com/weicoding1>

```
CREATE PROC sp_getIncomeByLocation
@state_name nvarchar(100) =NULL,
@state_ab nvarchar(100) =NULL,
@county nvarchar(100) = NULL,
@city nvarchar(100) =NULL,
@zip_code int =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 @zip_code IS NOT NULL
        BEGIN
            SELECT PLACE,
                CENSUS_TYPE,
                NUM_HOUSEHOLD,
                MEAN,
                MEDIAN,
                STANDEV
            FROM #temp
            WHERE ZIP_CODE=@zip_code
        END
    ELSE
        BEGIN
            IF @state_name IS NULL
                BEGIN
```

```

        SELECT PLACE,
               CENSUS_TYPE,
               NUM_HOUSEHOLD,
               MEAN,
               MEDIAN,
               STANDEV
        FROM   #temp
        WHERE  STATE_AB=@state_ab
        AND    COUNTY=@county
        AND    CITY=@city
    END
ELSE
    IF @state_ab IS NULL
    BEGIN
        SELECT PLACE,
               CENSUS_TYPE,
               NUM_HOUSEHOLD,
               MEAN,
               MEDIAN,
               STANDEV
        FROM   #temp
        WHERE  STATE_NAME=@state_name
        AND    COUNTY=@county
        AND    CITY=@city
    END
END
END
GO

```