**Task 3.22.0 WP Subdivision Cross-Reference Apr 15, 2015**

The goal of this process is to build a cross-reference table that determine how often subdivision names are used in relationship to each other.

Start Processing

* Write process start record to the Process\_Status\_Log table

Process name : Compile\_Subdivision\_Cross

Process id: 3.16

* Pull the Polygon Subdivision data for each of the above Subdivisions

SELECT Polygon\_id,

Sub\_id,

Subdivision,

Count

FROM Polygon\_Subdivision

ORDER BY 1, 4 desc

* For each Polygon

For each sub\_id>0, cross-reference to the other subdivision records

ForExample, if a Polygon has the following subdivisions

Sub\_id Subdivision name Count

641 Washington Park 19

1096 Washington Park West 9

0 Cherry Hill 4

0 Cherry Creek 2

The following 6 pairs would be Cross-Referenced

641 – 1096 Washington Park West

641 – 1106 West Washington Park

641 – 0 Cherry Hill

641 – 0 Cherry Creek

1096 – 0 Cherry Hill

1196 – 0 Cherry Creek

Check if the Subdivision pair exists in the Subdivision\_Cross table

* + - If not found, insert the subdivision pair into the Subdivision\_Cross table
    - If found, update the counter

Note: The Parent Subdivision always has a Sub\_id>0

Note: The same Polygon should never be processed more than once

* Switch Subdivision\_Cross records

Lookup the Parent\_id & Child\_id in the tb\_Subdivision\_City and update the Subdivision\_Cross record such that the Parent Subdivision has the great tb\_Subdivision\_City count.

* Writeprocess end record to the Process\_Status\_Log table