‘lkup1’ stores a look up table with SCTG codes along with their corresponding upper and lower bounds for the value to weight ratio used in ‘validation\_shipment’ module. This lookup table is presented in the form of an array of JSON objects. The objects in the array are sorted by the SCTG code in ascending order. This is important because ‘lookup\_binary\_m’ function uses binary search method to find SCTG codes faster and more efficiently.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable: lkup1** | |  | |
| Each JSON object has the following attributes: | | | |
| Attributes: | | | *sctg: sctg code*  vw\_lb*: value to weight ratio lower bound*  vw\_ub: value to weight ratio lower bound |
| example | *Lkup1: [ …* {"sctg":"40110","vw\_lb":"0.52419","vw\_ub":"7691.87549"}..] | | |