Solution 3

Grain size calculated as follows

|  |  |  |  |
| --- | --- | --- | --- |
| **Cube** | **Grain** | **Unadjusted Size** | **Sparsity** |
| *Lead* | Customer postal code, Sales\_Agent, Sales\_Class, Location, Week  Customer, Sales\_Agent, Sales\_Class, Location, Day | 46,800,000  3,285,000,000 | 0.995  0.999 |
| *Subjob* | Customer postal code, SalesClass, Week, Location, MachineType  Customer, SalesClass, Day, Location, MachineType | 9,360,000  657,000,000 | 0.989  0.992 |
| *Shipment* | Customer postal code, SalesClass, Week, Location  Customer, SalesClass, Day, Location | 1,560,000  219,000,000 | -0.603  0.989 |
| *Invoice* | Customer postal code, SalesClass, Week, Location, SalesAgent  Customer, SalesClass, Day, Location, SalesAgent | 46,800,000  3,285,000,000 | 0.995  0.999 |
| *Job* | Customer postal code, SalesClass, Week, Location, SalesAgent  Customer, SalesClass, Day, Location, SalesAgent | 46,800,000  3,285,000,000 | 0.998  0.999 |
| *Sales summary* | SalesClass, Week, Location  SalesClass, Day, Location, MachineType | 3,120  21,900 | -0.1538  0.836 |
| *Cost summary* | SalesClass, Week, Location, MachineType  SalesClass, Day, Location, MachineType | 31,200  219,000 | -0.154  0.836 |