The most detailed grain is the combination of Merchandise or Service or SpecialEvent, Franchise, Member and date.

* 350 Franchise Rows
* 20 ServiceCategory Row,1 Special Event Row, Total = 21
* Days per year: 365
* 50000 Member Rows, 150 Member Rows\*200 Franchises , Total = 50000 + 150\*200 = 80000
* 500 Merchandise Rows, Total= 500
* 100,000 Service Purchase Rows,(300\*200) Special Events Purchase,450,000 Contains Rows
* Total Fact Table Size Increase = 100000+ 450000+60000 = 610000
* Sparsity estimate:
  + 1 - ( fact table size / product of dimensions )
  + (1 – ( 610000 / (350\*21\*500\*365\*80000) ) = 0.99999999431
  + The data cube has mostly missing cells with slightly more than 1% of cells with non zero values.