Problem 3

# Grain:

* Dimensions:

1. Merchandise: 500 rows
2. Franchise: 350 rows
3. Service: 20 rows
4. Calendar: 365 rows
5. Customer: 50,000 + 150 \* 200 (unique for spreadsheets) = 80,000

* Fact Table Size:

450,000 + 100,000 + 150,000 + 300\*200 = 760,000 rows

* Sparsity:

1 – (760,000 / (500\*350\*20\*365\*80,000)) = (less than 1%)