Problem 1:

The dimensions are Franchise, calendar, ServPurchase, Merchandise and Member. Franchise, ServPurchase, Merchandise and Member come from ERD and spreadsheet. The calendar dimension is standard as well as hierarchical warehouse dimension.

* Franchise
  + FranchID: ERD only
  + FranchRegion ERD only; hierarchical (franchregion -> postalcode)
  + FranchPostalCode : ERD only
  + FranchModelType: ERD only
* Calendar
  + Date columns in the ERD are (MmbrDate, ServPuchDate, SaleDate) and SpreadSheet (EventDate).
  + Hierarchical (year -> month -> day).
* Merchandise
  + MerchId: ERD only
  + MerchName: ERD only
  + MerchType: ERD only
* Member
  + MmbrID ERD only
  + MmbrName ERD only
  + MmbrZip ERD only
  + MmbrEmail ERD only; Hierarchical (Top level domain -> second level domain -> local part)
  + MemberType: SpreadSheet only
* ServPurchase
  + ServPurchaseId: ERD only
  + ServiceCategory: SpreadSheet only.