1. You should identify dimensions, map dimensions to data sources, and specify dimension hierarchies. For each dimension, you should identify its data sources and attributes in each data source. For hierarchical dimensions, you should indicate the levels from broad to narrow.

The dimensions in the problem are reasonably clear. Supplier, calendar, and product are dimensions. Supplier and product come from the ERD and the sample spreadsheet. The calendar dimension is a standard data warehouse dimension. Calendar is a hierarchical dimension. Phone and email can be parsed to be hierarchical as part of the supplier dimension.

* Member
  + MmbrID: (ERD and table)
  + MmbrName (Member table) and ERD
  + SuppPhone: ERD only; hierarchical (country code → area code → prefix → line)
  + MmbrEmail: ERD only; hierarchical (top level domain → second level domain → local part)
* Calendar
  + Date columns in the ERD (ServPurchDate, SaleDate, and MmbrDate) and spreadsheet (PurchDate); hierarchical (year → month → day)
* Franchise:
  + FranchId: ERD only
  + FranchRegion: ERD only; hierarchical (region→ city → locality)
* Service Category:
  + ServCatId: ERD only
  + ServCatName: table only