Problem 5:

1. Identify summarizability potential problems in your star schema and indicate preferred resolutions of the summarizability problems. For incomplete dimension-fact relationships, you should also indicate if columns in a dimension table allow null values.

Ans:

* The *MemberhipDate* relationship is an incomplete fact-dimension relationship as the membership date is missing for customers who don’t have a membership.
* *SalesFact* table will have NULL values for *MerchId* when the Sale is related to service and the *ServiceId* will be NULL for sales that are related to Services.
* There are also missing values for *MbrZip* and *MbrEmail* for the corporate customers from the spreadsheet.
* There are also missing values for *FranchId* for services and special events.
* The values for the *MbrName* in the Member Dimension for corporate customers has to be derived from the spreadsheet(Corporate Customer Name And Location ) column.
* *MbrType* should be guest for guest customers , corporate for customers customers and other types given in the ERD.