**Solution for Problem1 of Module 2 Assignment**

The dimensions in the problem are:

Customer,

CustLocation,

SalesAgent,

MachineType.

Time

|  |  |  |  |
| --- | --- | --- | --- |
| **Dimension** | **Attributes** | **Hierarchies** | **Data Sources** |
| Customer | Cust\_Key  Cust\_Name  City  Country  State  Credit\_Limit  Email  Term\_Code  Zip | CustRegion  (Country🡪State🡪City)  Email  (top level domain → second level domain → local part) | ERP Database |
| CustLocation | Cust\_Loc\_key  Cust\_Name  Cust\_No(Remove the numbering in cust\_name , add this as cust\_no)  City  Country  State  Email  Zip | CustRegion  (Country🡪State🡪City)  Email  (top level domain → second level domain → local part) | ERP Database |
| SalesAgent | Sales\_Agent\_Id  Sales\_Agent\_Name  State  Country | (Country🡪State) | ERP Database |
| MachineType | Machine\_Type\_Id  Manufacturer  Model  Rate\_Per\_hour  Number\_Of\_Machines |  | ERP Database |
| Time | Time\_Id  Year  Quarter  Month  Day  Week | (Year🡪Quarter🡪Month🡪Week🡪Day) | Standard Time Dimension Table for the data warehouse |

Here, there are various time columns in the ERP Database and Other Sources

Job (Contract Date,Date Promised)

SubJob(Date\_Prod\_Begin,Date\_Prod\_End)

Shipment(Actual\_Ship\_Date)

Invoice(Requested\_Ship\_Date)

Lead(Created\_Date)

Financial Cost Summary(Begin\_Date,End\_Date)

Financial Sales Summary(Begin\_Date,End\_Date)

Assuming Location\_Name and Sales\_Class\_Desc are unique.

Location tables and sales class tables are not required in warehouse.