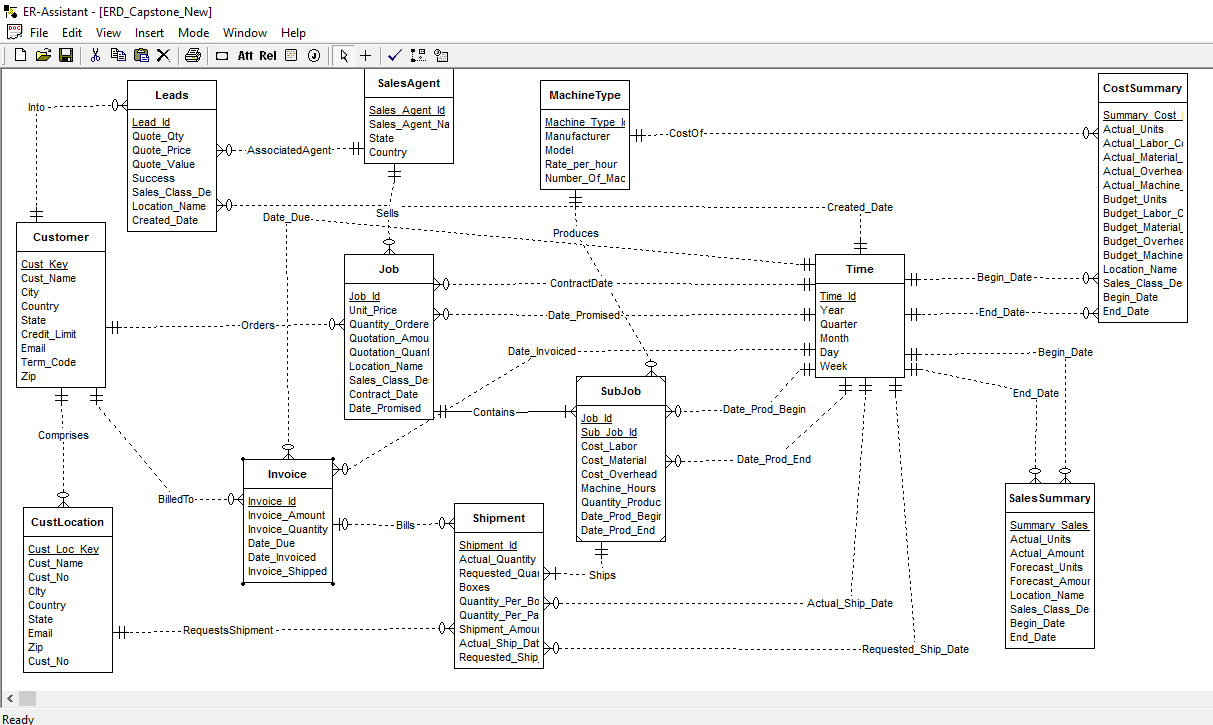
**Solution for Problem4 of Module 2 Assignment**

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ERD diagram above shows the different fact and dimension tables.

Dimension Tables are: (Only Primary Key is Marked,Other details in the diagram)(Five)

1. **Customer**

Cust\_Key(PrimaryKey)

1. **CustLocation**

Cust\_Loc\_Key(Primary Key)

Cust\_No(Keeps Count when same customer in different location)

1. **SalesAgent**

Sales\_Agent\_Id(Primary Key)

1. **MachineType**

Machine\_Type\_Id(Primary Key)

1. T**ime**

Time\_Id(Primary Key)

Fact Tables are: (Only Primary Key is Marked,Other Details in the diagram)

1. **Job**

Job\_Id(Primary Key)

Instead of Location\_id, Location\_Name is used in the table directly.

Instead of Sales\_Class\_id, Sales\_Class\_Desc is used in the table directly.

1. **SubJob**

(Job\_Id,Subjob\_Id)- Primary Key

1. **Shipment**

Shipment\_Id(Primary Key) Instead of Sales\_Class\_id, Sales\_Class\_Desc is used in the table directly.

1. **Invoice**

Invoice\_Id(Primary Key)

1. **CostSummary**

Summary\_Cost\_Id(Primary Key)

Instead of Location\_id, Location\_Name is used in the table directly.

Instead of Sales\_Class\_id, Sales\_Class\_Desc is used in the table directly.

1. **SalesSummary**

Summary\_Sales\_Id(Primary Key)

Instead of Location\_id, Location\_Name is used in the table directly.

Instead of Sales\_Class\_id, Sales\_Class\_Desc is used in the table directly.

1. **Leads**

Lead\_Id(Primary Key)

Instead of Location\_id, Location\_Name is used in the table directly.

Instead of Sales\_Class\_id, Sales\_Class\_Desc is used in the table directly.

**Showing different fact tables:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Schema type** | **Dimension tables** | **Fact table** | **Comments** |
| Shipment Star Schema | CustLocation,  Time(Actual\_Ship\_Date)  Time(Requested\_Ship\_Date) | Shipment | Shipment keep tracks of shipped products. |
| Job Star Schema | Customer,  Time(Contract\_Date)  Time(Date\_Promised)  SalesAgent | Job | This keeps track of the different jobs added to the databases. |
| SubJob Star Schema | Customer  MachineType,  Time(Date\_Prod\_Begin)  Time(Date\_Prod\_End) | SubJob | This maintains a list of subjobs for each job. |
| Invoice Star Schema | Customer,  Time(Date\_due)  Time(Date\_Invoiced) | Invoice | This maintains the invoice generated for each item bought by customer or shipped. |
| Cost(Summary) Schema | Time(Begin\_Date)  Time(End\_Date),MachineType | Cost(Summary) | This maintains the cost data for different things. |
| Sales(Summary) Schema | Time(Begin\_Date)  Time(End\_Date) | Sales(Summary) | This maintains the sales data for different tables. |
| Leads Schema | Customer  Time(Created\_Date)  Sales\_Agent | Leads | This maintains the data about different leads. |