

# Problem 4

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```
graph TD
    Customer --> Leads
    Leads --> Sales_class
    Leads --> Sales_agent
    Leads --> Cost_summary
    Leads --> Sales_summary
    Leads --> Invoice
    Leads --> Shipment
    Sales_class --> Sales_agent
    Sales_class --> Cost_summary
    Sales_class --> Sales_summary
    Sales_class --> Invoice
    Sales_class --> Shipment
    Sales_agent --> Cost_summary
    Sales_agent --> Sales_summary
    Sales_agent --> Invoice
    Sales_agent --> Shipment
    Time --> Cost_summary
    Time --> Sales_summary
    Time --> Invoice
    Time --> Shipment
    Machine_type --> Cost_summary
    Machine_type --> Sales_summary
    Machine_type --> Invoice
    Machine_type --> Shipment
    Location --> Cost_summary
    Location --> Sales_summary
    Location --> Invoice
    Location --> Shipment
    Cost_summary --> Sales_summary
    Cost_summary --> Invoice
    Cost_summary --> Shipment
    Sales_summary --> Invoice
    Sales_summary --> Shipment
    Invoice --> Shipment
```

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ERD diagram above shows the different fact and dimension tables.

Dimension Tables are: (All details in the diagram)

- 1. Customer
- 2. SalesAgent
- 3. MachineType
- 4. Time
- 5. Location
- 6. SalesClass

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

- 1. Job
- 2. SubJob
- 3. Shipment
- 4. Invoice
- 5. CostSummary
- 6. SalesSummary
- 7. Leads

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 Location Sales_Agent	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 Location Sales_calss	Cost(Summary)	This maintains the cost data for different things.
Sales(Summary) Schema	Time(Begin_Date) Time(End_Date) Location Sales_class	Sales(Summary)	This maintains the sales data for different tables.
Leads Schema	Customer Time(Created_Date) Sales_Agent Location Sales_class	Leads	This maintains the data about different leads.