STUDYDADDY

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Entities

Customer : REGULAR ENTITY

    CUST_ID : [PK] ATTRIBUTE Type:INTEGER

    FIRST_NAME : ATTRIBUTE Type:VARCHAR Length=20

    BUSINESS_PHONE : ATTRIBUTE Type:INTEGER

    LAST_NAME : ATTRIBUTE Type:VARCHAR Length=20

    BUSINESS_NAME : ATTRIBUTE Type:VARCHAR Length=30

Machine : REGULAR ENTITY

    MACH_ID : [PK] ATTRIBUTE Type:NUMERIC Length= Width=

    MACH_BRAND : ATTRIBUTE Type:VARCHAR Length=20

    MACH_MODEL : ATTRIBUTE Type:VARCHAR Length=20

    MACH_SERIAL : ATTRIBUTE Type:VARCHAR Length=20

    MACH_YEAR : ATTRIBUTE Type:NUMERIC Length= Width=

Service : REGULAR ENTITY

    SERVICE_ID : [PK] ATTRIBUTE Type:NUMERIC Length= Width=

    SERVICE_TYPE : ATTRIBUTE Type:VARCHAR Length=20

    SERVICE_TECH : ATTRIBUTE Type:VARCHAR Length=20

    SERVICE_DATE : ATTRIBUTE Type:DATE

    WORK_ORDER : ATTRIBUTE Type:VARCHAR Length=10

Sales Person : REGULAR ENTITY

    SALESPERSON_ID : [PK] ATTRIBUTE Type:NUMERIC Length= Width=

    SALES_LNAME : ATTRIBUTE Type:VARCHAR Length=20

    SALES_FNAME : ATTRIBUTE Type:VARCHAR Length=20

    SALES_PHONE : ATTRIBUTE Type:NUMERIC Length= Width=

    SALES_REGION : ATTRIBUTE Type:VARCHAR Length=20

Sales : REGULAR ENTITY

    SALES_ID : [PK] ATTRIBUTE Type:NUMERIC Length= Width=

    SALES_TYPE : ATTRIBUTE Type:VARCHAR Length=20

    SALES_DATE : ATTRIBUTE Type:DATE

    SALE_PRICE : ATTRIBUTE Type:NUMERIC Length= Width=

    TRADE_IN : ATTRIBUTE Type:VARCHAR Length=20

Relationships

Purchased : REGULAR RELATIONSHIP Customer MANY MANDATORY to Machine MANY MANDATORY
Many customers can purchase many machines

Sales Person : REGULAR RELATIONSHIP Customer MANY MANDATORY to Sales Person ONE MANDATORY
Only one salesperson but can have many customers

Service : REGULAR RELATIONSHIP Customer MANY MANDATORY to Service MANY MANDATORY
Many customers can have many services

Sales : REGULAR RELATIONSHIP Sales Person ONE MANDATORY to Sales MANY MANDATORY
Only one sales person per sale but can have many sales

Machines : REGULAR RELATIONSHIP Machine MANY MANDATORY to Service MANY MANDATORY
Many machiners can have many services

Cust_Sales : REGULAR RELATIONSHIP Customer MANY MANDATORY to Sales MANY MANDATORY
Many customes can have many sales

Sales : REGULAR RELATIONSHIP Machine MANY MANDATORY to Sales ONE MANDATORY
Many machines can be sold, but only one sales ID per machine sold

Design Justifications
1   Many custmers can purchase many machines, but only one sales person per customer.

2   A salesperson can make many sales, but only one salesperson per sale

3   Many customers can purchase many machines.

4   Many customers can have many services

5   Many machines can have many services

Diagram Notes
Many custmers can purchase many machines, but only one sales person per customer.

A salesperson can make many sales, but only one salesperson per sale

Many customers can purchase many machines.

Many customers can have many services

Many machines can have many services

Many machines can be sold, but only one sales ID per machine sold