ClotheWith

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ABSTRACT:

The ClotheWith is a management system that provides a database where all the activities of a clothing are stored. It is very important to keep track of all the people involved and the duties performed by them in the process of manufacturing to maintain the process efficiently. There are about 7 tables in this database where all the information starting from production of clothes to reaching out to the customer to sell them is stored. This database describes how the clothes are processed to provide a good product to a customer.

REQUIREMENTS ANALYSIS
List Of Tables:

1. Designer
2. Suppliers
3. Items
4. Store
5. Manager
6. Employees
7. Customer

List Of Attributes With Their Domain Types:

Designer:

Name of the Designer: D_Name varchar2(20)
ID of the Designer: D_id number(5)
Mobile number of the Designer: D_Phone number(10)

Supplier:
Name of the supplier: S_Name varchar2(20)
Id of the Supplier: S_Id number(5)
Shipment ID: Shipment_Id number(5)

Item:
Item code: Item_No number(5)
Cost of the item: Prize number(5)
Description of the item: Description varchar2(20)

Store:
Item code: Item_No number(5)
Quantity: Qty number(5)

Manager:
Name of the manager: M_Name varchar2(20)
Id of the manager: M_Id number(5)
Mobile number of the manager: M_Phone number(10)
Address of the manager: M_Address Varchar2(30)

Employees:
Name of the employee: E_Name varchar2(20)
Id of the employee: E_Id number(5)
Mobile number of the employee: E_Phone number(10)

Customer:
Membership ID: Membersip_Id number(5)
Discount percentage : Discount number(3)

Designer
- D_Id
- D_Name
- D_Phone

Sends To

Suppliers
- S_Id
- S_Name
- Shipment_Id

Packs

Items
- Prize
- Item_No
- Description

Sold_at

Delivers To

Store
- Item_No
- Qty

Runs

Works_In

Manager
- M_Id
- M_Name
- M_Address
- M_Phone

Pays

0...*

1...1

Employees
- E_Id
- E_Phone
- E_Name

Buys

Customer
- Discount
- Membership_Id
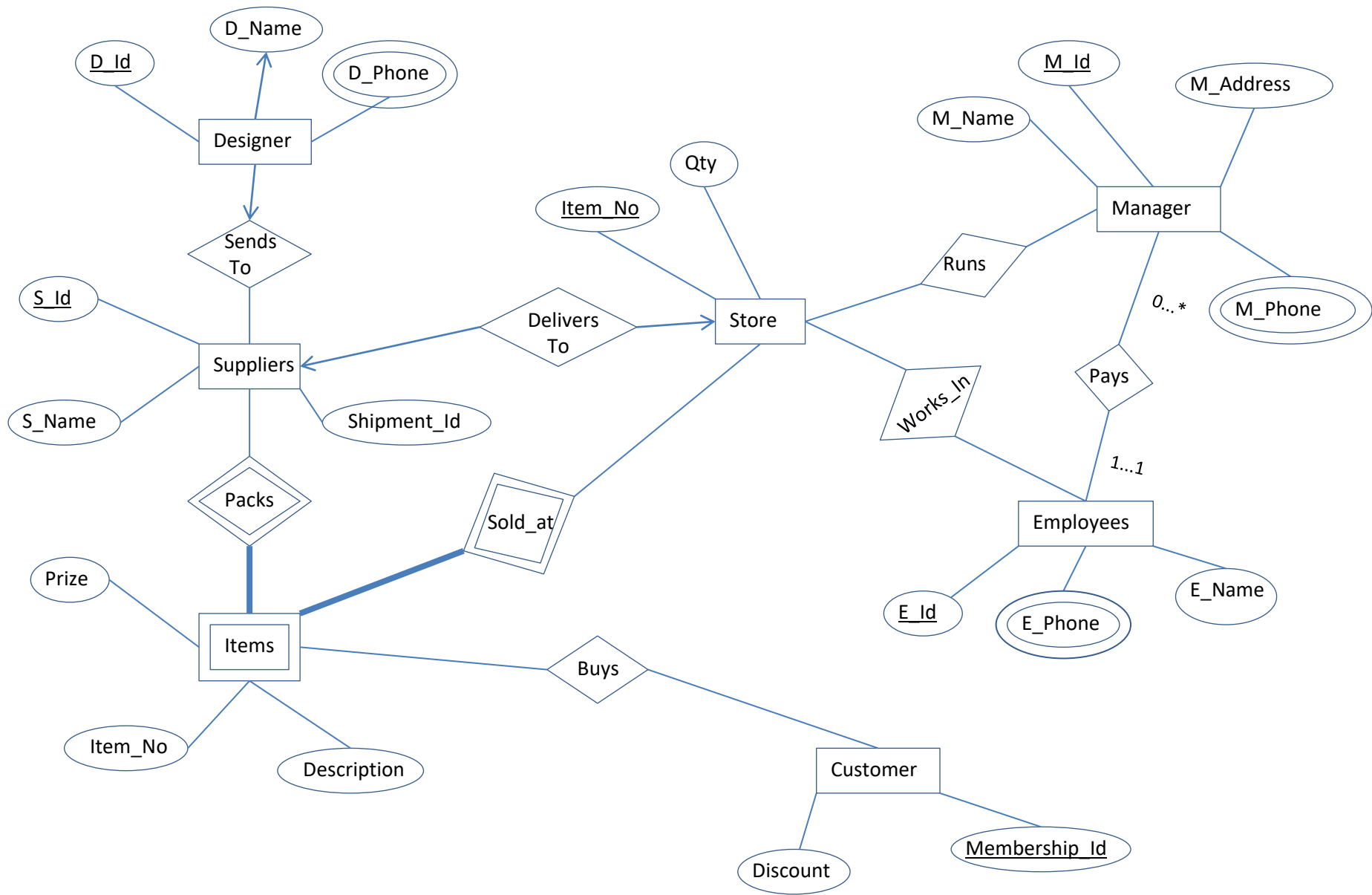
MAPPING CARDINALITY AND PARTICIPATION CONSTRAINTS

An employee works under a manager. A manager is alloted to a set of employees
Which means an employee must have 1 manger under which he works.
(One to Many participation)

A supplier can provide items to store and a store can have many suppliers.
(Many to Many participation)

A supplier get designs from many designers and a designer can supply to many suppliers.
(Many to Many participation)

DDL Commands

Create table designer(
D_id number(5) primary key, D_Name varchar2(20), D_Phone number(10));

Create table supplier(
S_Id number(5) primary key, S_Name varchar2(20), Shipment_Id number(5));

Create table item(
Item_No number(5) primary key, Prize number(5), Description varchar2(20));

Create table store(
Item_No number(5) primary key, Qty number(5));

Create table manager(
 M_Id number(5) primary key, M_Name varchar2(20), M_Phone number(10),
M_Address Varchar2(30));

Create table employees(
E_Id number(5) primary key, E_Name varchar2(20), E_Phone number(10));

Create table customers(
Membersip_Id number(5), Discount number(3));

DML Command:

insert into designer values(&D_id ,&D_Name ,&D_Phone);

insert into supplier values(&S_Id , &S_Name ,&Shipment_Id);

insert into item values(&Item_No , &Prize, &Description);

insert into store values(&Item_No ,&Qty);

insert into manager values(&M_Id, &M_Name, &M_Phone, &M_Address);

insert into employees values(&E_Id ,&E_Name , &E_Phone);

insert into customers values(&Membersip_Id , &Discount);

```
SQL> desc Designer;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 D_ID                                      NOT NULL NUMBER(5)
 D_NAME                                             VARCHAR2(20)
 D_PHONE                                            NUMBER(10)

SQL> desc Supplier;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 S_ID                                      NOT NULL NUMBER(5)
 S_NAME                                             VARCHAR2(20)
 SHIPMENT_ID                                        NUMBER(5)

SQL> desc Item;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 ITEM_NO                                   NOT NULL NUMBER(5)
 PRIZE                                              NUMBER(5)
 DESCRIPTION                                        VARCHAR2(20)

SQL> desc Store;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 ITEM_NO                                   NOT NULL NUMBER(5)
 QTY                                                NUMBER(5)

SQL> desc Customers;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 MEMBERSHIP_ID                                      NUMBER(5)
 DISCOUNT                                           NUMBER(3)

SQL> desc Employees;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 E_ID                                      NOT NULL NUMBER(5)
 E_NAME                                             VARCHAR2(20)
 E_PHONE                                            NUMBER(10)

SQL> desc Manager;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 M_ID                                      NOT NULL NUMBER(5)
 M_NAME                                             VARCHAR2(20)
 M_PHONE                                            NUMBER(10)
 M_ADDRESS                                          VARCHAR2(50)
```

```
SQL> select * from designer;

      D_ID D_NAME                 D_PHONE
---------- -------------------- -----------
       101 ravi                  1234567890
       102 raghu                  123456789
       103 swetha                2134567890
       104 sriya                 3124567890
       105 lakshmi               4123567890

SQL> select * from supplier;

      S_ID S_NAME               SHIPMENT_ID
---------- -------------------- -----------
       201 laya                         123
       202 kartik                        12
       203 ramya                        213
       204 priya                        312
       205 maya                         456

SQL> select * from item;

   ITEM_NO      PRIZE DESCRIPTION
---------- ---------- --------------------
       234        500 Floral print
       235        700 A little coarse
       236        450 Great for summer
       237        500 Bright
       238        550 Bright red colour

SQL>
```

```
SQL> select * from store;

  ITEM_NO        QTY
---------- ----------
       234         13
       235         16
       237         17
       239          9
       240          4

SQL> select * from manager;

     M_ID M_NAME                  M_PHONE M_ADDRESS
---------- -------------------- ---------- ------------------------------
       12 Swathi               4523678910 5-1-315,Khaithabad,Hyderabad
       13 Praneet              9123456780 5-1-318,Malakpet,Hyderabad
       14 Ram                  7123456890 6-1-317,Ameerpet,Hyderabad,
       15 Danush                712345689 6-1-315,Panjagutta,Hyderabad
       16 Vinay                6123457890 5-1-319,Lakdikapul,Hyderabad
```

```
SQL> select * from Employees;

     E_ID E_NAME                  E_PHONE
---------- -------------------- ----------
       301 Aneesh               6123457890
       302 Shravani              615347890
       303 Preetam               619845370
       304 Sreenu                123457890
       305 Aakash               2123457890

SQL> select * from Customers;

MEMBERSHIP_ID   DISCOUNT
------------- ----------
          909         50
          907         30
          901         25
          900         25
          904         35
```