QUẢN LÝ GỖ NỘI THẤT

create database QuanLyDoGoNoiThat\_Nhom3

---tao bang LoaiGo

Create table LoaiGo (

MaLoai char(10) not null,

TenLoai nvarchar(40),

Primary key(MaLoai)

)

---tao bang DoGo

Create table DoGo (

MaDG char(10) not null,

TenDG nvarchar(40),

MaLoai char(10),

GiaBo money,

Primary key(MaDG)

)

---tao lien ket khoa ngoai giua 2 bang DOGO va LOAIGO - thuoc tinh: MaLoai

alter table DoGo

add constraint fk\_DG\_LG\_MaLoai

foreign key (MaLoai)

references LoaiGo(MaLoai)

---tao bang MauGo

CREATE TABLE MauGo (

MaMau char(10) not null,

TenMau nvarchar(40),

Primary key(MaMau)

)

----tao bang ThanhPhan

create table ThanhPhan (

MaTP char(10) not null,

TenTP nvarchar(40),

KichThuoc nvarchar(40),

Primary key (MaTP)

)

--tao bang TuongThich

create table TuongThich (

MaLoai char(10) not null,

MaMau char(10) not null,

Primary key (MaLoai, MaMau)

)

----tao lien ket khoa ngoai giua 2 bang TuongThich và LoaiGo - thuoc tinh: MaLoai

alter table TuongThich

add constraint fk\_TT\_LG\_MaLoai

foreign key (MaLoai)

references LoaiGo(MaLoai)

---tao lien ket khoa ngoai giua 2 bang TuongThich va MauGo - thuoc tinh: MaMau

alter table TuongThich

add constraint fk\_TT\_MG\_MaMau

foreign key (MaMau)

references MauGo(MaMau)

---tao bang ThanhPhan\_Loai

create table ThanhPhan\_Loai (

MaTP char(10) not null,

MaLoai char(10) not null,

DonGia money,

Primary key(MaTP, MaLoai)

)

---tao lien ket khoa ngoai giua 2 bang ThanhPhan\_Loai và ThanhPhan - thuoc tinh: MaTP

alter table ThanhPhan\_Loai

add constraint fk\_TPL\_TT\_MaTP

foreign key (MaTP)

references ThanhPhan(MaTP)

---Tao lien ket khoa ngoai giua 2 bang ThanhPhan\_Loai va LoaiGo - thuoc tinh: MaLoai

alter table ThanhPhan\_Loai

add constraint fk\_TPL\_LG\_MaLoai

foreign key (MaLoai)

references LoaiGo(MaLoai)

---tao bang CauThanh\_DoGo

create table CauThanh\_DoGo (

MaTP char(10) not null,

MaDG char(10) not null,

SoLuong int,

Primary key (MaTP, MaDG),

)

---tao lien ket khoa ngoai giua 2 bang CauThanh\_DoGo va ThanhPhan - thuoc tinh: MaTP

alter table CauThanh\_DoGo

add constraint fk\_CTDG\_LT\_MaTP

foreign key (MaTP)

references ThanhPhan(MaTP)

---tao lien ket khoa ngoai giua 2 bang CauThanh\_DoGo va DoGo - thuoc tinh: MaDG

alter table CauThanh\_DoGo

add constraint fk\_CTDG\_DG\_MaDoGo

foreign key (MaDG)

references DoGo(MaDG)

set dateformat dmy

go

---them du lieu vao LoaiGo

insert into LoaiGo(MaLoai,TenLoai)

values('G01',N'Cẩm Lai')

insert into LoaiGo(MaLoai,TenLoai)

values('G02',N'Sưa Đỏ')

insert into LoaiGo(MaLoai,TenLoai)

values('G03',N'Ngọc Am')

insert into LoaiGo(MaLoai,TenLoai)

values('G04',N'Hoàng Đàn')

insert into LoaiGo(MaLoai,TenLoai)

values('G05',N'Tử Đàn')

insert into LoaiGo(MaLoai,TenLoai)

values('G06',N'Mun Sừng')

insert into LoaiGo(MaLoai,TenLoai)

values('G07',N'Đàn Hương')

insert into LoaiGo(MaLoai,TenLoai)

values('G08',N'Tử Đàn')

insert into LoaiGo(MaLoai,TenLoai)

values('G09',N'Trắc')

---them du lieu vao MauGo

insert into MauGo(MaMau,TenMau)

values('M01',N'Nâu hồng')

insert into MauGo(MaMau,TenMau)

values('M02',N'Nâu đỏ')

insert into MauGo(MaMau,TenMau)

values('M03',N'Vàng nhạt')

insert into MauGo(MaMau,TenMau)

values('M04',N'Nâu đỏ nhạt')

insert into MauGo(MaMau,TenMau)

values('M05',N'Đỏ')

insert into MauGo(MaMau,TenMau)

values('M06',N'Đen')

insert into MauGo(MaMau,TenMau)

values('M07',N'Vàng')

insert into MauGo(MaMau,TenMau)

values('M08',N'Đỏ hồng')

insert into MauGo(MaMau,TenMau)

values('M09',N'Đỏ Đậm')

---them du lieu vao tuong thich

insert into TuongThich(MaLoai,MaMau)

values('G01','M01')

insert into TuongThich(MaLoai,MaMau)

values('G02','M02')

insert into TuongThich(MaLoai,MaMau)

values('G03','M03')

insert into TuongThich(MaLoai,MaMau)

values('G04','M04')

insert into TuongThich(MaLoai,MaMau)

values('G05','M05')

insert into TuongThich(MaLoai,MaMau)

values('G06','M06')

insert into TuongThich(MaLoai,MaMau)

values('G07','M07')

insert into TuongThich(MaLoai,MaMau)

values('G08','M08')

insert into TuongThich(MaLoai,MaMau)

values('G09','M09')

----them du lieu vao DoGo

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T01',N'Tượng Quan Công','G01',30000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T02',N'Tượng Tam Đa','G02',20000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T03',N'Tượng Rồng','G03',10000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T04',N'Tượng Di Lặc','G04',40000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T05',N'Tượng Quán Âm','G05',60000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('BBG',N'Bộ bàn ghế','G06',30000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T06',N'Tượng Tế Công','G07',20000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('CTT',N'Cóc Thiềm Thừ','G08',15000000)

insert into DoGo(MaDG,TenDG,MaLoai,GiaBo)

values('T07',N'Tượng Đạt Ma Sư Tổ','G09',35000000)

-----them du lieu vao ThanhPhan

insert into ThanhPhan(MaTP,TenTP,KichThuoc)

values('TH',N'Thân','50x50x300')

insert into ThanhPhan(MaTP,TenTP,KichThuoc)

values('GO',N'Gốc','100x100x80')

insert into ThanhPhan(MaTP,TenTP,KichThuoc)

values('CA',N'Cành','20x20x100')

insert into ThanhPhan(MaTP,TenTP,KichThuoc)

values('NU',N'Nu','100x100x120')

---them du lieu vao ThanhPhan\_Loai

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('TH','G01',27000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('TH','G02',18000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('CA','G03',9000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('TH','G04',36000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('TH','G05',54000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('GO','G06',27000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('TH','G07',18000000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('NU','G08',13500000)

insert into ThanhPhan\_Loai(MaTP,MaLoai,DonGia)

values('TH','G09',31500000)

---them du lieu vao CauThanh\_DoGo

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('TH','T01',1)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('TH','T02',1)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('CA','T03',2)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('TH','T04',1)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('TH','T05',1)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('GO','BBG',2)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('TH','T06',1)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('NU','CTT',2)

insert into CauThanh\_DoGo(MaTP,MaDG,SoLuong)

values('TH','T07',1)

--Ràng buộc mặc định: NOT NULL cho MaLoai.

ALTER TABLE LoaiGo ALTER COLUMN MaLoai char(10) NOT NULL;

--Ràng buộc duy nhất: MaMau trong bang MauGo.

ALTER TABLE MauGo ADD CONSTRAINT unique\_MaMau UNIQUE (MaMau);

--Ràng buộc kiểm tra: GiaBo trong bang Do\_Go phải cao hơn 10% tổng đơn giá của từng thành phần cấu thành nên bộ đó với số lượng chuẩn.

--câu lệnh update

UPDATE CauThanh\_DoGo

SET MaTP = 'TH'

WHERE SoLuong = 10;

UPDATE ThanhPhan\_Loai

SET MaLoai = 'G03'

WHERE DonGia = 888888888;

--câu lệnh update

DELETE FROM LoaiGo WHERE MaLoai = 'G01';

DELETE FROM MauGo WHERE MaMau = 'M02';

--truy vấn đơn giản

SELECT MaLoai, TenLoai

FROM LoaiGo

--câu lệnh kết bảng

SELECT D.MaDG, LoaiGo.TenLoai

FROM DoGo D

INNER JOIN LoaiGo ON D.MaLoai = LoaiGo.MaLoai;

--câu lệnh gom nhóm

SELECT

LoaiGo.TenLoai,

COUNT(DoGo.MaDG) AS SoLuongDoGo

FROM LoaiGo

LEFT JOIN DoGo

ON LoaiGo.MaLoai = DoGo.MaLoai

GROUP BY

LoaiGo.TenLoai;

--câu lệnh truy vấn lồng

SELECT

TenLoai,

(

SELECT

COUNT(\*)

FROM DoGo

WHERE

MaLoai = LoaiGo.MaLoai

) AS SoLuongDoGo

FROM LoaiGo;