CREATE DATABASE QLNGK;

--Cau1

--a

CREATE TABLE loaiNGK

(

MaLoai varchar(10) primary key,

TenLoai nvarchar (20) NOT NULL unique ,

)

--b

CREATE TABLE NGK

(

MaNGK varchar (10) primary key,

TenNGK nvarchar (20) NOT NULL unique ,

DVT nvarchar (10) NOT NULL check (DVT in (N'chai', N'lon',N'thùng',N'kết')),

soLuong int NOT NULL check (soLuong > 0),

Dongia int NOT NULL check (Dongia > 0),

MaLoaiNGK varchar (10) NOT NULL,

FOREIGN KEY ( MaLoaiNGK) REFERENCES LoaiNGK(MaLoai) ,

)

--c

CREATE TABLE Khachhang

(

MsKH varchar(10) primary key ,

HoTen nvarchar (20) NOT NULL,

DiaChi nvarchar (20) ,

DienThoai varchar (20) default 'chưa có'

)

--d

CREATE TABLE Hoadon

(

Sohd varchar(10) PRIMARY KEY,

MsKH varchar(10) NOT NULL,

Nhanvien VARCHAR(50),

Ngaylap DATE DEFAULT GETDATE(),

FOREIGN KEY(MsKH) REFERENCES Khachhang (MsKH),

)

--e

CREATE table CTHD

(

Sohd varchar(10) ,

MaNGK varchar (10) ,

soluong INT NOT NULL CHECK (Soluong >= 0),

Dongia INT NOT NULL CHECK (Dongia >= 1000),

PRIMARY KEY (Sohd, MaNGK),

FOREIGN KEY (Sohd) REFERENCES Hoadon (Sohd),

FOREIGN KEY (MaNGK) REFERENCES NGK (MaNGK)

)

--f

ALTER TABLE CTHD ADD ThanhTien int

ALTER TABLE CTHD ADD CONSTRAINT FK\_soHD FOREIGN KEY (soHD) REFERENCES HoaDon(soHD)

ALTER TABLE CTHD ADD CONSTRAINT FK\_MaNGK FOREIGN KEY (MaNGK) REFERENCES NGK(MaNGK)

ALTER TABLE NGK ADD CHECK (Dongia > 1000)

--g

ALTER TABLE CTHD DROP CONSTRAINT FK\_soHD

ALTER TABLE CTHD DROP CONSTRAINT FK\_MaNGK

--h

ALTER TABLE CTHD ADD CHECK (ThanhTien > 0)

--Cau2

--a

INSERT INTO loaiNGK (MaLoai, TenLoai) VALUES

('M1','A'),

('M2','B'),

('M3','C')

INSERT INTO NGK (MaNGK, TenNGK, DVT, soLuong, Dongia, MaLoaiNGK) VALUES

('N0001','NGK1','lon',40,5000, 'M1'),

('N0002','NGK2','chai',20,6000, 'M2'),

('N0003','NGK3','thùng',10,7000, 'M3')

INSERT INTO khachHang(msKH, hoTen, diaChi, DienThoai) VALUES

('KH1','TC1','TPHCM','0123456789'),

('KH2','TC2','HN','0987654321'),

('KH3','TC3','DN','0135792468')

INSERT INTO HoaDon(soHD, msKH, ngayLap) VALUES

('HD1','KH2','2023-01-02'),

('HD2','KH1','2023-01-03'),

('HD3','KH3','2023-01-04')

INSERT INTO CTHD (soHD, MaNGK, soLuong, Dongia) VALUES

('HD2','N0001',4, 10000),

('HD3','N0002',8, 20000),

('HD1','N0003',2, 30000)

SELECT \* FROM loaiNGK

SELECT \* FROM NGK

SELECT \* FROM Khachhang

SELECT \* FROM Hoadon

SELECT \* FROM CTHD

--b

UPDATE NGK SET Dongia = Dongia + 10000 WHERE DVT like N'lon'

--c

DELETE khachHang WHERE msKH IN

(SELECT msKH FROM HoaDon WHERE YEAR(ngayLap) <= 2010 )

--d

DELETE NGK WHERE soLuong = 0

--e

UPDATE NGK

SET Dongia = CASE

WHEN DVT = 'thùng' THEN

CASE

WHEN (Dongia + 100000) <= 500000 THEN (Dongia + 100000)

ELSE 500000

END

ELSE Dongia

END

--Cau3

--a

SELECT \* FROM NGK WHERE DVT like N'lon'

--b

SELECT \* FROM khachHang WHERE diaChi like N'TPHCM'

--c

SELECT \* FROM NGK WHERE MaNGK IN

(SELECT MaNGK FROM CTHD WHERE soHD IN

(SELECT soHD FROM HoaDon WHERE MONTH(ngayLap) BETWEEN 7 AND 9))

--d

SELECT TenNGK , soLuong FROM NGK

--e

SELECT DISTINCT cthd.Sohd

FROM CTHD cthd

JOIN loaiNGK lngk1 ON cthd.MaNGK = lngk1.MaLoai

JOIN loaiNGK lngk2 ON cthd.MaNGK = lngk2.MaLoai

WHERE lngk1.TenLoai = N'Nước Có Ga' OR lngk2.TenLoai = N'Nước Ngọt';

--f

SELECT \* FROM NGK WHERE MaNGK NOT IN

(SELECT MaNGK FROM CTHD)

Ảnh có chứa văn bản, chữ viết tay, văn phòng phẩm, Sản phẩm từ giấy

Mô tả được tạo tự động

Ảnh có chứa văn bản, chữ viết tay, giấy, tài liệu

Mô tả được tạo tự động