--2. Create tables with constraints as design above--

create table Customer(

CustomerId int primary key,

Name nvarchar(50),

City nvarchar(50),

Country nvarchar(50),

Phone nvarchar(15),

Email nvarchar(50)

);

create table CustomerAccount(

AccountNumber char(9) primary key,

CustomerId int foreign key references Customer(CustomerId) not null,

Balance money not null,

MinAccount money

);

create table CustomerTransaction(

TransactionId int primary key,

AccountNumber char(9) foreign key references CustomerAccount(AccountNumber),

TransactionDate smalldatetime,

Amount money,

DepositorWithdraw bit,

);

--3. Insert into each table at least 3 records--

insert into Customer( CustomerId, Name, City, Country, Phone, Email)

values

(1, 'Nguyen Van Minh', 'Hanoi', 'Viet Nam', '0123456789', 'vm123@gmail.com'),

(2, 'Nguyen Thi An', 'Nghe An', 'Viet Nam', '0123456788', 'ta123@gmail.com'),

(3, 'Andy Cole', 'Berlin', 'Germany', '0123456787', 'ac123@gmail.com');

insert into CustomerAccount( AccountNumber, CustomerId, Balance, MinAccount)

values

('000000010', 1, 1000000, 100),

('000000011', 2, 2000000, 100),

('000000012', 3, 3000000, 200);

insert into CustomerTransaction( TransactionId, AccountNumber, TransactionDate, Amount, DepositorWithdraw)

values

(1,'000000010','2022-9-12', 500000, 1),

(2,'000000011', '2021-5-14', 700000, 0),

(3,'000000012', '2022-8-24', 1200000, 1);

--4. Write a query to get all customers from Customer table who live in ‘Hanoi’--

select \* from Customer where City = 'Hanoi';

--5. Write a query to get account information of the customers (Name, Phone, Email, AccountNumber, Balance)--

select C.Name, C.Phone, C.Email, A.AccountNumber, A.Balance from Customer C

inner join CustomerAccount A on C.CustomerId = A.CustomerId;

--6.--

alter table CustomerTransaction

add check (amount <=100000 and amount>0);

--7.Create a view named vCustomerTransactions that display Name, AccountNumber, TransactionDate, Amount, and DepositorWithdraw from Customer, CustomerAccount and CustomerTransaction tables--

CREATE VIEW vCustomerTransactions AS

Select C.Name, A.AccountNumber, T.TransactionDate, T.Amount, T.DepositorWithdraw

From Customer C

INNER JOIN CustomerAccount A

On C.CustomerId = A.CustomerId

INNER JOIN CustomerTransaction T

On A.AccountNumber = T.AccountNumber;