use master;

go

create database HotelReservationSystem;

go

use HotelReservationSystem;

go

create table Guests (

GuestID int identity(1,1) primary key,

FirstName varchar(30) not null,

LastName varchar(30) not null,

Age int not null

)

create table Discounts (

DiscountID int identity(1,1) primary key,

Description varchar(30) not null,

Code varchar(50) not null,

CodeType varchar(30) not null,

Amount int not null,

StartDate date not null,

EndDate date not null

)

create table Customers (

CustomerID int identity(1,1) primary key,

FirstName varchar(30) not null,

LastName varchar(30) not null,

PhoneNumber nvarchar(30) not null,

Email nvarchar(50) not null

)

create table Billing (

BillingID int identity(1,1) primary key,

Subtotal money not null,

Total money not null,

Tax money not null

)

create table AddOns (

AddOnID int identity(1,1) primary key,

Description varchar(30) not null,

FeeType varchar(30) not null,

Fee int not null,

StartDate date not null,

EndDate date not null

)

create table Amenities (

AmenityID int identity(1,1) primary key,

Description varchar(30) not null

)

create table RoomTypes (

RoomTypeID int identity(1,1) primary key,

Size varchar(30) not null,

OccupanyLimit int not null

)

create table Reservations (

ReservationID int identity(1,1) primary key,

StartDate date not null,

EndDate date not null,

DiscountID int foreign key references Discounts(DiscountID) null,

BillingID int foreign key references Billing(BillingID) not null

)

create table CustomerReservations (

CustomerID int not null,

ReservationID int not null,

constraint PK\_CustomerReservations

primary key (CustomerID, ReservationID),

constraint FK\_Customer\_CustomerReservations

foreign key (CustomerID)

references Customers(CustomerID),

constraint FK\_Reservation\_CustomerReservations

foreign key (ReservationID)

references Reservations(ReservationID),

)

create table ReservationGuests (

ReservationID int not null,

GuestID int not null,

constraint PK\_ReservationGuests

primary key (ReservationID, GuestID),

constraint FK\_Reservation\_ReservationGuests

foreign key (ReservationID)

references Reservations(ReservationID),

constraint FK\_Guests\_ReservationGuests

foreign key (GuestID)

references Guests(GuestID),

)

create table Rooms (

RoomID int identity(1,1) primary key,

RoomNumber int not null,

[Floor] int not null,

RoomTypeID int foreign key references RoomTypes(RoomTypeID) not null

)

create table RoomRates (

RoomRateID int identity(1,1) primary key,

StartDate date not null,

EndDate date not null,

RoomTypeID int foreign key references RoomTypes(RoomTypeID)

)

create table RoomAmenities (

RoomID int not null,

AmenityID int not null,

constraint PK\_RoomAmenities

primary key (RoomID, AmenityID),

constraint FK\_Room\_RoomAmenities

foreign key (RoomID)

references Rooms(RoomID),

constraint FK\_Amenity\_RoomAmenities

foreign key (AmenityID)

references Amenities(AmenityID),

)

create table Details (

DetailID int identity(1,1) primary key,

RoomRateID int foreign key references RoomRates(RoomRateID) not null,

BillingID int foreign key references Billing(BillingID) not null

)

create table DetailAddOns (

DetailID int not null,

AddOnID int not null,

constraint PK\_DetailAddOns

primary key (DetailID, AddOnID),

constraint FK\_Detail\_DetailAddOns

foreign key (DetailID)

references Details(DetailID),

constraint FK\_AddOns\_DetailAddOns

foreign key (AddOnID)

references AddOns(AddOnID),

)

go

insert into Guests(FirstName, LastName, Age)

values ('Blayn', 'Swenson', 27),

('Sam', 'Angell', 27),

('Jessica', 'Slater', 29)

insert into Discounts(Description, Code, CodeType, Amount, StartDate, EndDate)

values ('SeniorDiscount', 'SENIOR15', 'Percent', 15, '01/01/0001', '12/31/9999'),

('BirthdayBucks', 'Take10OFF', 'DollarOff', 10, '01/01/0001', '12/31/9999')