USE master

GO

CREATE LOGIN DBUser WITH PASSWORD = ‘asd123’

GRANT CREATE ANY DATABASE TO DBUser

GO

create database YachtClub

go

use YachtClub

Go

CREATE SCHEMA YC

GO

create table Employee(

EmployeeID int IDENTITY(1,1) PRIMARY KEY,

SSN nvarchar(11) not null,

FName nvarchar(50) not null,

LName nvarchar(50) not null,

BDate date null,

Email nvarchar(50) null,

Phone int null)

go

create table ClubMember(

MemberID int IDENTITY(1,1) PRIMARY KEY,

YachtID int not null,

CardID int not null,

SSN nvarchar(11) not null,

FName nvarchar(50) not null,

LName nvarchar(50) not null,

BDate date null,

Email nvarchar(50) null,

Phone int null)

go

create table Yacht(

YachtID int IDENTITY(1,1) PRIMARY KEY,

ClassID int not null,

TypeID int not null,

ModelID int not null,

GTFactor float not null,

yLength float not null,

LastMaintenance date not null)

go

create table YachtClass(

ClassID int PRIMARY KEY not null,

ClassDesc nvarchar(50) null)

go

create table YachtType(

TypeID int PRIMARY KEY not null,

TypeDesc nvarchar(50) null)

go

create table YachtModel(

ModelID int IDENTITY(1,1) PRIMARY KEY,

BrandID int not null,

ModelName nvarchar(50) null,

HullType int not null,

EngineBrand int not null)

go

create table YachtBrand(

BrandID int IDENTITY(1,1) PRIMARY KEY not null,

BrandName nvarchar(50) null)

go

create table YachtHullType(

HullType int PRIMARY KEY not null,

HullDesc nvarchar(50) null)

go

create table YachtEngine(

EngineBrand int IDENTITY(1,1) PRIMARY KEY,

EngineBrandName nvarchar(50) null)

go

create table CreditCard(

CardID int IDENTITY(1,1) PRIMARY KEY,

CardType nvarchar(50) not null,

CardNo nvarchar(20) not null,

ExpMonth int not null,

ExpYear int not null)

Go

Create table ClubHouse(

HouseID int IDENTITY(1,1) PRIMARY KEY,

HouseName nvarchar(50) not null,

HouseAdress nvarchar(50) null)

Go

Create table WorksIn(

EmployeeID int not null,

HouseID int not null,

Hours int null)

Go

Create table IsMemberOf(

MemberID int not null,

MemberStart date not null,

MemberEnd date not null)

go

alter table ClubMember

add foreign key (YachtID) references Yacht(YachtID)

go

alter table ClubMember

add foreign key (CardID) references CreditCard(CardID)

go

alter table Yacht

add foreign key (ClassID) references YachtClass(ClassID)

go

alter table Yacht

add foreign key (TypeID) references YachtType(TypeID)

go

alter table Yacht

add foreign key (ModelID) references YachtModel(ModelID)

go

alter table YachtModel

add foreign key (BrandID) references YachtBrand(BrandID)

go

alter table YachtModel

add foreign key (HullType) references YachtHullType(HullType)

go

alter table YachtModel

add foreign key (EngineBrand) references YachtEngine(EngineBrand)

go

Alter table WorksIn

Add foreign key (EmployeeID) references Employee(EmployeeID)

go

Alter table WorksIn

Add foreign key (HouseID) references ClubHouse(HouseID)

Go

Alter table IsMemberOf

Add foreign key (MemberID) references ClubMember(MemberID)

Go

create view [Whose Yacht] as

select Yacht.YachtID, MemberID, FName, LName

from YC.ClubMember, YC.Yacht

where Yacht.YachtID = ClubMember.YachtID

go

create view [Yacht Infos] as

select ModelName, HullDesc, BrandName, EngineBrandName

From YC.YachtModel, YC.YachtHullType, YC.YachtBrand, YC.YachtEngine, YC.YachtClass

Where YachtModel.BrandID = YachtBrand.BrandID and

YachtModel.HullType = YachtHullType.HullType and

YachtModel.EngineBrand = YachtEngine.EngineBrand and

YachtModel.ModelID = YachtModel.ModelName

go

Create view [Employee Works At] as

Select Employee.EmployeeID, Employee.FName, Employee.LName, ClubHouse.HouseName

From YC.ClubHouse, YC.Employee, YC.WorksIn

Where Employee.EmployeeID = WorksIn.EmployeeID

go

Create view [Yacht Maintenance Check] as

Select Yacht.YachtID, MemberID, LastMaintenance

From YC.Yacht, YC.ClubMember

Where Yacht.YachtID = ClubMember.YachtID

go

Create view [NumberOfPeopleWorkingOnHouse](HouseName, EmployeeID) as

Select ClubHouse.HouseName, Count(\*)

From YC.ClubHouse, YC.Employee, YC.WorksIn

Where Employee.EmployeeID != NULL and Employee.EmployeeID = WorksIn.EmployeeID

Group by HouseName

go

create view [NumberOfYachtsTypes](YachtType, YachtTypeId) as

select YachtType.TypeID, COUNT(\*)

from YC.YachtType, YC.Yacht

where Yacht.TypeID = YachtType.TypeID

group by YachtType.TypeID

GO

CREATE VIEW MemberInfo AS

SELECT [MemberID], [SSN], [FName] + ‘ ‘ + [LName] AS [Name], [BDate] AS [Date of Birth], [EMail], [Phone] FROM [ClubMember]

GO

CREATE VIEW EmployeeInfo AS

SELECT [EmployeeID], [SSN], [FName] + ‘ ‘ + [LName] AS [Name], [BDate] AS [Date of Birth], [EMail], [Phone] FROM [Employee]

GO

create procedure AddEmployee (@SSN nvarchar(11),@fname nvarchar(50),@lname nvarchar(50),@bdate date,@email nvarchar(50),@phone int) as

Set nocount on;

Insert into Employee ([SSN],[FName],[LName],[BDate],[Email],[Phone]) values (@SSN,@fname,@lname,@bdate,@email,@phone)

Go

create procedure AddClubMember (@YachtID int,@CardID int,@SSN nvarchar(11),@Fname nvarchar(50),@Lname nvarchar(50),@Bdate date,@Email nvarchar(50),@Phone int) as

set nocount on;

insert into ClubMember([YachtID],[CardID],[SSN],[FName],[LName],[BDate],[Email],[Phone]) values (@YachtID,@CardID,@SSN,@Fname,@Lname,@Bdate,@Email,@Phone)

go

create procedure AddYacht (@ClassID int,@TypeID int,@ModelID int,@GTFactor float,@yLength float,@LastMaintenance date) as

set nocount on;

insert into Yacht([ClassID],[TypeID],[ModelID],[GTFactor],[yLength],[LastMaintenance]) values (@ClassID,@TypeID,@ModelID,@GTFactor,@yLength,@LastMaintenance)

go

create procedure AddYachtClass (@ClassID int,@ClassDesc nvarchar(50)) as

set nocount on;

insert into YachtClass([ClassID],[ClassDesc]) values (@ClassID,@ClassDesc)

go

exec AddYachtClass "1","Large Yacht"

exec AddYachtClass "2","Commercial"

exec AddYachtClass "3","Private"

exec AddYachtClass "4","Flag Administration"

go

create procedure AddYachtType (@TypeID int,@TypeDesc nvarchar(50)) as

set nocount on;

insert into YachtType([TypeID],[TypeDesc]) values (@TypeID,@TypeDesc)

go

exec AddYachtType "1","Express, Express Cruiser, Cruiser, Sports Cruiser"

exec AddYachtType "2","Flybridge, Sedan, Sedan Bridge, Sport Bridge"

exec AddYachtType "3","Motor Yacht, Pilothouse Motor Yacht, Cockpit Motor Yacht, Skylounge"

exec AddYachtType "4","Tri-Deck, Mega Yacht"

exec AddYachtType "5","Sportfish, Express Sportfish, Flybridge Sportfish, Convertible"

go

create procedure AddYachtBrand (@BrandID int,@BrandName nvarchar(50)) as

set nocount on;

insert into YachtBrand([BrandID],[BrandName]) values (@BrandID,@BrandName)

go

exec AddYachtBrand "1","Adams"

exec AddYachtBrand "2","Albin"

exec AddYachtBrand "3","Bavaria"

exec AddYachtBrand "4","Beneteau"

exec AddYachtBrand "5","Bristol"

go

create procedure AddYachtHullType (@HullType int,@HullDesc nvarchar(50)) as

set nocount on;

insert into YachtHullType([HullType],[HullDesc]) values (@HullType,@HullDesc)

go

exec AddYachtHullType "1","Catamaran"

exec AddYachtHullType "2","Trimaran"

exec AddYachtHullType "3","Single Hull"

go

create procedure AddYachtEngine (@EngineBrand int,@EngineBrandName nvarchar(50)) as

set nocount on;

insert into YachtEngine([EngineBrand],[EngineBrandName]) values (@EngineBrand,@EngineBrandName)

exec AddYachtEngine "1","asd"

exec AddYachtEngine "2","asde"

exec AddYachtEngine "3","asdc"

go

create procedure AddYachtModel (@BrandID int,@ModelName nvarchar(50),@HullType int,@EngineBrand int) as

set nocount on;

insert into YachtModel([BrandID],[ModelName],[HullType],[EngineBrand]) values (@BrandID,@ModelName,@HullType,@EngineBrand)

go

exec AddYachtModel "1","Crown","2","3"

exec AddYachtModel "2","36T","1","1"

exec AddYachtModel "3","34' Cutter","1","1"

exec AddYachtModel "4","Newport 28","1","1"

exec AddYachtModel "5","C&C 34","1","1"

go

create procedure AddCreditCard (@CardType nvarchar(50),@CardNo nvarchar(20),@ExpMonth int,@ExpYear int) as

set nocount on;

insert into CreditCard([CardType],[CardNo],[ExpMonth],[ExpYear]) values (@CardType,@CardNo,@ExpMonth,@ExpYear)

go

exec AddCreditCard "bonuscard","1524565","10","2"

go

create procedure AddClubHouse (@HouseName nvarchar(50),@HouseAdress nvarchar(50)) as

Set nocount on;

insert into ClubHouse([HouseName],[HouseAdress]) values (@HouseName,@HouseAdress)

go

exec AddClubHouse "Yemekhane","0006"

go

create procedure AddWorksIn (@EmployeeID int,@HouseID int,@Hours int) as

set nocount on;

insert into WorksIn([EmployeeID],[HouseID],[Hours]) values (@EmployeeID,@HouseID,@Hours)

go

create procedure AddIsMemberOf (@MemberID int ,@MemberStart date, @MemberEnd date) as

set nocount on;

insert into IsMemberOf([MemberID],[MemberStart],[MemberEnd]) values (@MemberID,@MemberStart,@MemberEnd)

go

create function YC.CountMembers()

returns int

as

Begin

DECLARE @MemCount INT

SELECT @MemCount = COUNT(MemberID) FROM [ClubMember]

RETURN @MemCount

End

Go

Create function YC.YachtModelCount(@ModName nvarchar(50))

Returns int

As

Begin

Declare @ModCount int

Select @ModCount = COUNT(ModelName) FROM [YachtModel]

WHERE [ModelName] = @ModName

return @ModCount

end

Go

Create function YC.MembershipLeft(@MemberID INT)

Returns INT

As

Begin

DECLARE @Cur AS DATE, @End AS DATE

SET @Cur = CURDATE()

SELECT @End = [MemberEnd] FROM [IsMemberOf]

WHERE [MemberID] = @MemberID

RETURN DATEDIFF(@End, @Cur)

End

GO

CREATE TRIGGER [YC].DisplayDaysLeft ON [YC].[IsMemberOf]

AFTER UPDATE

AS

BEGIN

SET NOCOUNT ON

IF UPDATE([MemberEnd])

BEGIN

DECLARE @MemID INT

SELECT @MemID = [MemberID] FROM [IsMemberOf]

WHERE UPDATE(MemberEnd)

PRINT N’Your membership has been updated. You now have ‘ + [YC].[MembershipLeft(@MemID)] + N‘ days left.’

END

END

GO

create trigger RepeatAfter on [YC].[Yacht]

after insert

as

begin

select \* from [YC].[Yacht]

end

CREATE TRIGGER SafetyCheck

ON DATABASE

INSTEAD OF DROP\_TABLE

AS

PRINT N'Dropping a table is not allowed.’

END

CREATE TRIGGER Hello ON ALL SERVER

AFTER LOGON

AS

PRINT N’Welcome to the SQL Server!’

END

CREATE TRIGGER TableCreation ON ALL SERVER

FOR CREATE\_TABLE

AS

PRINT N‘Table created succesfully!’