Diagram

Description automatically generated

**Assignment Lab 1**

**Step 1 :** first create a database there are 4 schema hence create 4 schema as below

CREATE Schema Saless

CREATE Schema Persons

CREATE Schema Productions

CREATE Schema HR

**Step 2:** there are 4 parent tables Person,Department,Country,ProductCategory

Create four parent tables.

CREATE TABLE Productions.ProductCategeory (

ProductCategeoryID INT IDENTITY(11,1) PRIMARY KEY,

ProductCategeoryName VARCHAR(50) NOT NULL,

);

CREATE TABLE Saless.Country (

CountryID INT IDENTITY(41,1) PRIMARY KEY,

CountryName VARCHAR(50) NOT NULL,

);

CREATE TABLE HR.Department (

DepartmentID INT IDENTITY(61,1) PRIMARY KEY,

DepartmentName VARCHAR(50) NOT NULL,

);

CREATE TABLE Persons.Person (

PersonID INT IDENTITY(61,1) PRIMARY KEY,

Title VARCHAR(50) NOT NULL,

FirstName VARCHAR(50) NOT NULL,

MiddleName VARCHAR(50) NOT NULL,

LastName VARCHAR(50) NOT NULL,

Gender VARCHAR(10) NOT NULL,

ModifiesDate DATE CHECK (ModifiesDate BETWEEN '10-FEB-2020' AND GETDATE()) NOT NULL,

);

**Step 3 :** Create Table ProductSubCategeory it is a child table of ProductCategeory .

Table ProductSubCategeory has a foreign key ProductCategeoryID that refers to column ProductCategeoryID in ProductCategeory Table.

CREATE TABLE Productions.ProductSubCategeory (

ProductSubCategeoryID INT IDENTITY(21,1) PRIMARY KEY,

ProductSubCategeoryName VARCHAR(50) NOT NULL,

ProductCategeoryID INT REFERENCES Productions.ProductCategeory(ProductCategeoryID) NOT NULL

);

**Step 4 :** Create Table Product it is a child table of ProductSubCategeory .

Table Product has a foreign key ProductSubCategeoryID that refers to column ProductSubCategeoryID in ProductSubCategeory Table.

CREATE TABLE Productions.Product (

ProductID INT IDENTITY(21,1) PRIMARY KEY,

ProductName VARCHAR(50) NOT NULL,

ProductCost CHAR(12) NOT NULL,

QuintityInStock CHAR(30) NOT NULL,

ProductSubCategeoryID INT REFERENCES Productions.ProductSubCategeory(ProductSubCategeoryID) NOT NULL

);

**Step 5 :** Create Table Territory it is a child table of Country .

Table Territory has a foreign key CountryID that refers to column CountryID in Country Table.

CREATE TABLE Saless.Territory (

TerritoryID INT IDENTITY(51,1) PRIMARY KEY,

TerritoryName VARCHAR(50) NOT NULL,

CountryID INT REFERENCES Saless.Country(CountryID) NOT NULL

);

**Step 6 :** Create Table Customer it is a child table of Department and Person.

Table Employee has two foreign key DepartmentID that refers to column DepartmentID in Department Table and PersonID that refers to column PersonID in Person Table .

CREATE TABLE HR.Employee (

EmployeeID INT IDENTITY(71,1) PRIMARY KEY,

Designation VARCHAR(50) NOT NULL,

ManagerID INT NOT NULL,

dateofjoining DATE CHECK (dateofjoining BETWEEN '10-FEB-1990' AND GETDATE()) NOT NULL,

DepartmentID INT REFERENCES HR.Department(DepartmentID) NOT NULL,

PersonID INT REFERENCES Persons.Person(PersonID) NOT NULL

);

**Step 7 :** Create Table Customer it is a child table of Territory and Person.

Table Customer has two foreign key TerritoryID that refers to column TerritoryID in Territory Table and PersonID that refers to column PersonID in Person Table .

CREATE TABLE Saless.Customer (

CustomerID INT IDENTITY(81,1) PRIMARY KEY,

CustomerGrade VARCHAR(50) NOT NULL,

TerritoryID INT REFERENCES Saless.Territory(TerritoryID) NOT NULL,

PersonID INT REFERENCES Persons.Person(PersonID) NOT NULL

);

**Step 8 :** Create Table SalesOrderHeader it is a child table of Customer and Employee.

Table SalesOrderHeader has two foreign key SalesPersonID that refers to column SalesPersonID in Employee Table and CustomerID that refers to column CustomerID in Customer Table .

CREATE TABLE Saless.SalesOrderHeader (

SalesOrderHeaderID INT IDENTITY(81,1) PRIMARY KEY,

OrderDate DATE NOT NULL,

SalesPersonID INT REFERENCES HR.Employee(EmployeeID) NOT NULL,

CustomerID INT REFERENCES Saless.Customer(CustomerID) NOT NULL

);

**Step 9 :** Create Table SalesOrderDetail it is a child table of SalesOrderHeader and Product.

Table SalesOrderDetail has two foreign key SalesOrderHeaderID that refers to column SalesOrderHeaderID in SalesOrderHeader Table and ProductID that refers to column ProductID in Customer Table .

CREATE TABLE Saless.SalesOrderDetail (

SalesOrderDetailID INT IDENTITY(81,1) PRIMARY KEY,

OrderQuantity CHAR(12) NOT NULL,

SalesOrderHeaderID INT REFERENCES Saless.SalesOrderHeader(SalesOrderHeaderID) NOT NULL,

ProductID INT REFERENCES Productions.Product(ProductID) NOT NULL

);