Topic: SQL Server

Assignment No: 01

1.Desgin the above database with following table by applying Primary key and Foreign key.

-- Customer Table

CREATE TABLE customer

(

id int PRIMARY KEY,

first\_name nvarchar(10),

last\_name nvarchar(10),

city nvarchar(10),

country nvarchar(10),

phone nvarchar(15)

);

SELECT \* FROM customer;

-- Product Table

create table product

(

id int PRIMARY KEY,

produc\_name nvarchar(20),

unit\_price decimal(12,2),

package nvarchar(30),

isDiscontinued bit

);

SELECT \* FROM product;

-- Orders Table

CREATE TABLE Order

(

id int PRIMARY KEY,

OrderDate DATETIME,

OrderNumber nvarchar(10),

CustomerId int,

TotalAmount decimal(12,2)

);

-- OrderItem Table

create table OrderItem

(

id int PRIMARY KEY,

OrderId int,

ProductId int,

UnitPrice decimal(10,2),

Quantity int

);

--Adding Primary & Foreign Key

ALTER TABLE Orderitem

ADD FOREIGN KEY(ProductId) REFERENCES Product(id);

ALTER TABLE Orderitem

ADD FOREIGN KEY(ProductId) REFERENCES Product(id);

ALTER TABLE Orders

ADD FOREIGN KEY(CustomerId) REFERENCES Customer(id);

2.Insert Records in all tables

INSERT INTO Customer (id, FirstName, LastName, City, Country, Phone)

VALUES

(1,'Riya', 'Sharma', 'Pune', 'India', '030-0074321'),

(2, 'Priya', 'Verma', 'Mumbai', 'India', '7894561237'),

(3,'Rutvik', 'Pawar', 'America', 'USA', '748858930'),

(4,'John', 'Dsuza', 'London', 'UK', '992547896');

INSERT INTO product(id, ProductName, UnitPrice, Package, isDiscontinued)

VALUES

(1, 'Book', 1000.00, 'yes', 0),

(2, 'Pencil', 2500.00, 'no', 1),

(3, 'SeaFood', 5000.00, 'yes', 0),

(4, 'Chai', 10.00, 'no', 1);

INSERT into Orders(id, OrderDate, OrderNumber, CustomerId, TotalAmount)

VALUES

(101, 12-03-2022, 'OD71', 1, 200.00),

(102, 12-03-2022, 'OD72', 2, 500.00),

(103, 12-03-2022, 'OD73', 3, 785.00),

(104, 12-03-2022, 'OD74', 4, 452.00);

Insert into OrderItem(id, OrderId, ProductId, UnitPrice, Quantity)

VALUES

(111, 101, 51, 100.00, 5),

(112, 102, 52, 850.00, 12),

(113, 103, 53, 470.00, 8),

(114, 104, 54, 580.00, 10);

3.In Customer table FirstName Attribute should not accept null value.

ALTER TABLE Customer

modify column FirstName VARCHAR(40), NOT NULL;

4.In Order table OrderDate should not accept null value.

ALTER TABLE Orders

ALTER COLUMN OrderDate datetime NOT NULL;

5.Display all customer details.

SELECT \* FROM customer;

6.write a query to display Country whose name starts with A or I.

Select \* from Customer

WHERE Country LIKE 'i%' or Country LIKE 'a%'

7 .write a query to display whose name of customer whose third character is I.

Select \* from Customer

WHERE FirstName LIKE '\_\_i%'