**Assignment 1**

CREATE DATABASE bsns;

USE bsns;

CREATE TABLE Customer(

Id INT PRIMARY KEY,

FirstName NVARCHAR(40),

LastName NVARCHAR(40),

City NVARCHAR(40),

Country NVARCHAR(40),

Phone NVARCHAR(40)

);

CREATE INDEX IndexCustomerName ON Customer(FirstName);

INSERT INTO Customer VALUES(1, "Suryakumar", "Raina", "Delhi", "India", "9876543210"),

(2, "Jasprit", "Rahane", "Salta", "Argentina", "9876543211"),

(3, "Suresh", "Yadav", "Berlin", "Germany", "9876543212"),

(4, "Yuzvendra", "Bumrah", "Mumbai", "India", "9876543213"),

(5, "Ajinkya", "Chahal", "London", "England", "9876543214");

CREATE TABLE Orders(

Id INT PRIMARY KEY,

OrderDate DATETIME,

OrderNumber NVARCHAR(10),

CustomerId INT,

TotalAmount DECIMAL(12,2),

FOREIGN KEY(CustomerId) REFERENCES Customer(Id)

);

CREATE INDEX IndexOrderCustomerId ON Orders(CustomerId);

CREATE INDEX IndexOrderOrderDate ON Orders(OrderDate);

INSERT INTO Orders VALUES(5, "2023-02-01 12:52:04.000000", "5", 5, 45);

CREATE TABLE Product(

Id INT PRIMARY KEY,

ProductName NVARCHAR(50),

UnitPrice DECIMAL(12,2),

Package NVARCHAR(30),

IsDiscontinued BIT

);

CREATE INDEX IndexProductSupplierId ON Product(Id);

CREATE INDEX IndexProductName ON Product(ProductName);

INSERT INTO Product VALUES(1, "Gloves", 15, "Good", 1),

(2, "Bat", 40, "Average", 0),

(3, "Stump", 20, "Good", 0),

(4, "Ball", 5, "Bad", 0),

(5, "Helmet", 15, "Good", 0);

CREATE TABLE OrderItem(

Id INT,

OrderId INT PRIMARY KEY,

ProductId INT,

UnitPrice DECIMAL(12,2),

Quantity INT,

FOREIGN KEY (OrderId) REFERENCES Orders(Id),

FOREIGN KEY (ProductId) REFERENCES Product(Id)

);

CREATE INDEX IndexOrderItemOrderId ON OrderItem(OrderId);

CREATE INDEX IndexOrderItemProductId ON OrderItem(ProductId);

INSERT INTO OrderItem VALUES(1, 1, 1 , 15, 4),

(2 ,2 ,2, 40, 2),

(3, 3, 3, 20, 2),

(4, 4, 4, 5, 6),

(5, 5, 5, 15, 3);

SELECT \* FROM OrderItem;

ALTER TABLE Customer CHANGE FirstName FirstName NVARCHAR(40) NOT NULL;

ALTER TABLE Orders CHANGE OrderDate OrderDate DATETIME NOT NULL;

SELECT \* FROM Customer;

SELECT Country FROM Customer WHERE Country LIKE "A%" OR Country LIKE "I%";

SELECT FirstName From Customer WHERE FirstName LIKE "\_\_i%";