# Implementation SQL

CREATE TABLE Route

(

RouteID INT NOT NULL,

PickupPoint INT NOT NULL,

PRIMARY KEY (RouteID)

);

CREATE TABLE Payment

(

PaymentID INT NOT NULL,

PaymentType INT NOT NULL,

CardNo INT NOT NULL,

PRIMARY KEY (PaymentID)

);

CREATE TABLE Bus

(

TotalSeats INT NOT NULL,

Bus.No INT NOT NULL,

AvailableSeats INT NOT NULL,

SeatNo INT NOT NULL,

ArrivalTime INT NOT NULL,

Source INT NOT NULL,

Destination INT NOT NULL,

RouteID INT NOT NULL,

PRIMARY KEY (Bus.No),

FOREIGN KEY (RouteID) REFERENCES Route(RouteID)

);

CREATE TABLE Passenger

(

PassengerID INT NOT NULL,

Gender INT NOT NULL,

Age INT NOT NULL,

Name INT NOT NULL,

Address INT NOT NULL,

ContactNumber INT NOT NULL,

Bus.No INT NOT NULL,

PRIMARY KEY (PassengerID),

FOREIGN KEY (Bus.No) REFERENCES Bus(Bus.No)

);

CREATE TABLE Tickets

(

TicketNo INT NOT NULL,

Price INT NOT NULL,

TicketDate INT NOT NULL,

PassengerID INT NOT NULL,

Bus.No INT NOT NULL,

PaymentID INT NOT NULL,

PRIMARY KEY (TicketNo)

FOREIGN KEY (PassengerID) REFERENCES Passenger (PassengerID),

FOREIGN KEY (Bus.No) REFERENCES Bus (Bus.No),

FOREIGN KEY (PaymentID) REFERENCES Payment (PaymentID)

);

-- Insert 10 records into the Route table

INSERT INTO Route (RouteID, PickupPoint)

VALUES

(1, 101),

(2, 102),

(3, 103),

(4, 104),

(5, 105),

(6, 106),

(7, 107),

(8, 108),

(9, 109),

(10, 110);

-- Insert 10 records into the Payment table

INSERT INTO Payment (PaymentID, PaymentType, CardNo)

VALUES

(1, 201, 1234567812345678),

(2, 202, 9876543210987654),

(3, 203,135689090900),

(4, 204, 'paypal@example.com'),

(5, 205, 'googlepay@example.com'),

(6, 206, 'applepay@example.com'),

(7, 207, 987654321),

(8, 208, 'venmo@example.com'),

(9, 209, 'bitcoin:1BitcoinAddress'),

(10, 210, 123456789);

-- Insert 10 records into the Bus table

INSERT INTO Bus (TotalSeats, BusNo, AvailableSeats, SeatNo, ArrivalTime, Source, Destination, RouteID)

VALUES

(50, 1, 50, 1, 800, 101, 201, 1),

(55, 2, 55, 2, 900, 102, 202, 2),

(60, 3, 60, 3, 1000, 103, 203, 3),

(65, 4, 65, 4, 1100, 104, 204, 4),

(70, 5, 70, 5, 1200, 105, 205, 5),

(75, 6, 75, 6, 1300, 106, 206, 6),

(80, 7, 80, 7, 1400, 107, 207, 7),

(85, 8, 85, 8, 1500, 108, 208, 8),

(90, 9, 90, 9, 1600, 109, 209, 9),

(95, 10, 95, 10, 1700, 110, 210, 10);

-- Insert 10 records into the Passenger table

INSERT INTO Passenger (PassengerID, Gender, Age, Name, Address, ContactNumber, BusNo)

VALUES

(1, 1, 30, 101, 201, 1234567890, 1),

(2, 2, 25, 102, 202, 9876543210, 2),

(3, 1, 40, 103, 203, 5555555555, 3),

(4, 2, 35, 104, 204, 4444444444, 4),

(5, 1, 28, 105, 205, 7777777777, 5),

(6, 2, 45, 106, 206, 8888888888, 6),

(7, 1, 32, 107, 207, 6666666666, 7),

(8, 2, 27, 108, 208, 3333333333, 8),

(9, 1, 22, 109, 209, 2222222222, 9),

(10, 2, 38, 110, 210, 9999999999, 10);

-- Insert 10 records into the Tickets table

INSERT INTO Tickets (TicketNo, Price, TicketDate, PassengerID, BusNo, PaymentID)

VALUES

(101, 25, '2024-05-01', 1, 1, 1),

(102, 30, '2024-05-02', 2, 2, 2),

(103, 35, '2024-05-03', 3, 3, 3),

(104, 40, '2024-05-04', 4, 4, 4),

(105, 45, '2024-05-05', 5, 5, 5),

(106, 50, '2024-05-06', 6, 6, 6),

(107, 25, '2024-05-01', 7, 7, 7),

(108, 30, '2024-05-02', 8, 8, 8),

(109, 35, '2024-05-03', 9, 9, 9),

(110, 40, '2024-05-04', 10, 10, 10);