Module 4) DA- Introduction SQL (Assessments- 3)

```sql
-- Create Database
CREATE DATABASE AirlinesDB;

USE AirlinesDB;

-- Create Flights Table
CREATE TABLE Flights (
    FlightID INT PRIMARY KEY,
    FlightNumber VARCHAR(10),
    DepartureCity VARCHAR(50),
    ArrivalCity VARCHAR(50),
    DepartureTime DATETIME,
    ArrivalTime DATETIME,
    AircraftType VARCHAR(50),
    AvailableSeats INT,
    TicketPrice DECIMAL(10, 2),
    AirlineName VARCHAR(50)
);

-- Insert 40 Rows of Sample Data
-- Insert rows from FlightID 1 to 40

INSERT INTO Flights (FlightID, FlightNumber, DepartureCity, ArrivalCity,
DepartureTime, ArrivalTime, AircraftType, AvailableSeats, TicketPrice,
AirlineName)
VALUES
(1, 'BA123', 'London', 'New York', '2023-01-15 08:00:00', '2023-01-15 14:00:00',
'Boeing 777', 200, 1200.50, 'British Airways'),
(2, 'DL456', 'New York', 'Paris', '2023-01-20 12:00:00', '2023-01-20 18:00:00',
'Airbus A350', 180, 1500.75, 'Delta Airlines'),
(3, 'AF789', 'Paris', 'Amsterdam', '2023-01-25 14:30:00', '2023-01-25 16:30:00',
'Airbus A320', 150, 900.25, 'Air France'),
(4, 'UA567', 'New York', 'Los Angeles', '2023-01-30 16:00:00', '2023-01-30
20:00:00', 'Boeing 737', 120, 1100.90, 'United Airlines'),
(5, 'EK345', 'Dubai', 'London', '2023-02-05 18:30:00', '2023-02-05 22:30:00',
'Boeing 787', 220, 1300.75, 'Emirates'),
(6, 'SQ890', 'Singapore', 'Sydney', '2023-02-10 20:00:00', '2023-02-11 02:00:00',
'Airbus A380', 180, 1400.25, 'Singapore Airlines'),
(7, 'QF456', 'Sydney', 'Auckland', '2023-02-15 22:30:00', '2023-02-16 01:30:00',
'Boeing 787', 100, 800.50, 'Qantas'),
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(8, 'LH123', 'Frankfurt', 'Tokyo', '2023-02-20 02:00:00', '2023-02-20 10:00:00', 'Airbus A350', 300, 1800.90, 'Lufthansa'),
(9, 'TK567', 'Istanbul', 'Moscow', '2023-02-25 04:30:00', '2023-02-25 08:30:00', 'Boeing 777', 160, 1200.00, 'Turkish Airlines'),
(10, 'AA234', 'Chicago', 'Los Angeles', '2023-03-01 06:00:00', '2023-03-01 09:30:00', 'Airbus A320', 130, 950.75, 'American Airlines'),
(11, 'BA567', 'London', 'Berlin', '2023-03-20 14:30:00', '2023-03-20 17:30:00', 'Boeing 737', 110, 1100.25, 'British Airways'),
(12, 'DL789', 'Atlanta', 'Chicago', '2023-03-25 18:00:00', '2023-03-25 20:00:00', 'Airbus A330', 90, 900.75, 'Delta Airlines'),
(13, 'EK345', 'Dubai', 'Mumbai', '2023-03-30 20:30:00', '2023-03-30 23:30:00', 'Boeing 777', 200, 1200.90, 'Emirates'),
(14, 'UA567', 'New York', 'San Francisco', '2023-04-05 22:00:00', '2023-04-06 02:00:00', 'Airbus A350', 150, 1000.50, 'United Airlines'),
(15, 'SQ890', 'Singapore', 'Hong Kong', '2023-04-10 02:30:00', '2023-04-10 04:30:00', 'Airbus A380', 180, 1500.25, 'Singapore Airlines'),
(16, 'QF456', 'Sydney', 'Melbourne', '2023-04-15 04:00:00', '2023-04-15 05:30:00', 'Boeing 787', 100, 800.75, 'Qantas'),
(17, 'LH123', 'Frankfurt', 'Barcelona', '2023-04-20 06:30:00', '2023-04-20 09:00:00', 'Airbus A350', 300, 1800.25, 'Lufthansa'),
(18, 'TK567', 'Istanbul', 'Athens', '2023-04-25 08:00:00', '2023-04-25 10:00:00', 'Boeing 737', 160, 1300.90, 'Turkish Airlines'),
(19, 'AA234', 'Chicago', 'Miami', '2023-04-30 10:30:00', '2023-04-30 12:30:00', 'Airbus A320', 130, 950.50, 'American Airlines'),
(20, 'AF567', 'Paris', 'Rome', '2023-05-05 12:00:00', '2023-05-05 14:00:00', 'Airbus A330', 150, 1600.00, 'Air France'),
(21, 'BA123', 'London', 'New York', '2023-05-10 15:30:00', '2023-05-10 18:30:00', 'Boeing 777', 200, 1200.50, 'British Airways'),
(22, 'DL456', 'New York', 'Paris', '2023-05-15 18:00:00', '2023-05-15 22:00:00', 'Airbus A350', 180, 1500.75, 'Delta Airlines'),
(23, 'AF789', 'Paris', 'Amsterdam', '2023-05-20 20:30:00', '2023-05-20 22:30:00', 'Airbus A320', 150, 900.25, 'Air France'),
(24, 'UA567', 'New York', 'Los Angeles', '2023-05-25 22:00:00', '2023-05-26 02:00:00', 'Boeing 737', 120, 1100.90, 'United Airlines'),
(25, 'EK345', 'Dubai', 'London', '2023-06-01 01:30:00', '2023-06-01 05:30:00', 'Boeing 787', 220, 1300.75, 'Emirates'),
(26, 'SQ890', 'Singapore', 'Sydney', '2023-06-05 04:00:00', '2023-06-05 07:00:00', 'Airbus A380', 180, 1400.25, 'Singapore Airlines'),
(27, 'QF456', 'Sydney', 'Auckland', '2023-06-10 06:30:00', '2023-06-10 09:30:00', 'Boeing 787', 100, 800.50, 'Qantas'),
(28, 'LH123', 'Frankfurt', 'Tokyo', '2023-06-15 08:00:00', '2023-06-15 15:00:00', 'Airbus A350', 300, 1800.90, 'Lufthansa'),
(29, 'TK567', 'Istanbul', 'Moscow', '2023-06-20 12:30:00', '2023-06-20 15:30:00', 'Boeing 777', 160, 1200.00, 'Turkish Airlines'),

(30, 'AA234', 'Chicago', 'Los Angeles', '2023-06-25 16:00:00', '2023-06-25 20:00:00', 'Airbus A320', 130, 950.75, 'American Airlines'),
(31, 'BA567', 'London', 'Berlin', '2023-03-20 14:30:00', '2023-03-20 17:30:00', 'Boeing 737', 110, 1100.25, 'British Airways'),
(32, 'DL789', 'Atlanta', 'Chicago', '2023-03-25 18:00:00', '2023-03-25 20:00:00', 'Airbus A330', 90, 900.75, 'Delta Airlines'),
(33, 'EK345', 'Dubai', 'Mumbai', '2023-03-30 20:30:00', '2023-03-30 23:30:00', 'Boeing 777', 200, 1200.90, 'Emirates'),
(34, 'UA567', 'New York', 'San Francisco', '2023-04-05 22:00:00', '2023-04-06 02:00:00', 'Airbus A350', 150, 1000.50, 'United Airlines'),
(35, 'SQ890', 'Singapore', 'Hong Kong', '2023-04-10 02:30:00', '2023-04-10 04:30:00', 'Airbus A380', 180, 1500.25, 'Singapore Airlines'),
(36, 'QF456', 'Sydney', 'Melbourne', '2023-04-15 04:00:00', '2023-04-15 05:30:00', 'Boeing 787', 100, 800.75, 'Qantas'),
(37, 'LH123', 'Frankfurt', 'Barcelona', '2023-04-20 06:30:00', '2023-04-20 09:00:00', 'Airbus A350', 300, 1800.25, 'Lufthansa'),
(38, 'TK567', 'Istanbul', 'Athens', '2023-04-25 08:00:00', '2023-04-25 10:00:00', 'Boeing 737', 160, 1300.90, 'Turkish Airlines'),
(39, 'AA234', 'Chicago', 'Miami', '2023-04-30 10:30:00', '2023-04-30 12:30:00', 'Airbus A320', 130, 950.50, 'American Airlines'),
(40, 'AF567', 'Paris', 'Rome', '2023-05-05 12:00:00', '2023-05-05 14:00:00', 'Airbus A330', 150, 1600.00, 'Air France');

-- Select and Display All Rows
SELECT * FROM Flights;

1) Update the departure city of the flight with FlightID 5 to 'Dubai International Airport'.
2) Delete the flight with FlightID 10 from the Flights table.
3) Add a new column 'FlightStatus' with a default value of 'Scheduled'.
4) Drop the 'AvailableSeats' column from the Flights table.
5) Rename the 'FlightNumber' column to 'FlightCode' in the Flights table.
6) Update the ticket price of all flights with a departure city of 'London' to 1500.00.
7) Delete all flights that have an arrival city of 'Paris'.
8) Add a new column 'DepartureTerminal' with a default value of 'T1'.
9) Drop the 'AircraftType' column from the Flights table.
10) Rename the 'ArrivalTime' column to 'EstimatedArrival' in the Flights table.
11) Update the flight status of all flights with a departure city of 'New York' to 'Boarding'.
12) Delete the flight with FlightID 15 from the Flights table.
13) Add a new column 'DelayMinutes' with a default value of 0.
14) Drop the 'TicketPrice' column from the Flights table
15) Rename the 'DepartureCity' column to 'OriginCity' in the Flights table