Assignments

**DML Questions**

1. Insert a new airline into the Airlines table with appropriate details.
2. Add a new airport to the Airports table with its details.
3. Insert a flight record into the Flights table, including airline, origin and destination airports, and times.
4. Add a passenger to the Passengers table with their name, passport number, and date of birth.
5. Book a flight for a passenger by adding a record to the Bookings table.
6. Update the Status of a specific flight in the Flights table to 'Delayed'.
7. Update the salary of an employee in the Employees table based on their EmployeeID.
8. Delete a canceled flight record from the Flights table.
9. Remove a passenger record from the Passengers table based on their PassportNumber.
10. Retrieve all flights scheduled to depart from a specific airport.

**ALTER TABLE Questions**

1. Add a column Email to the Passengers table to store passenger email addresses.
2. Modify the Salary column in the Employees table to allow a higher precision for salary (e.g., DECIMAL(12, 2)).
3. Drop the Dimensions column from the Baggage table.

**Data Addition and Constraints**

1. Add multiple records to the Airlines table for new airlines operating in different countries.
2. Populate the FlightCrew table with crew members assigned to a specific flight.

**Airlines**

1. List all airlines from a specific country.
2. Find airlines founded before the year 2000.
3. Find the total number of airlines per country.
4. Identify airlines with duplicate IATA codes (if any).

**Airports**

1. Retrieve all airports in a specific city.
2. Find airports with IATA codes starting with 'J'.
3. List all airports in a specific country with more than one airport.

**Flights**

1. Find all flights departing from a specific airport.
2. List delayed or cancelled flights.

**Passengers and Bookings**

1. Find passengers with a specific nationality.
2. List passengers born after the year 1990.
3. Find passengers with duplicate passport numbers.
4. Find all bookings for a specific flight.
5. Count confirmed bookings for each flight.
6. Retrieve bookings made within the last week.

**Employees**

1. Retrieve all employees working at a specific airport.
2. Find employees hired after a certain date.
3. List employees by their roles across all airports.
4. Find the highest-paid employee at a specific airport.

**Baggage**

1. Calculate the total baggage weight for a specific booking.
2. List all baggage items exceeding 23 kg.

**Maintenance**

1. List all aircraft with pending maintenance.
2. List all aircraft scheduled for maintenance in the next 30 days.
3. Find maintenance tasks completed in the last 30 days.
4. Find the most frequently maintained aircraft.

**Facilities**

1. List all facilities available at a specific airport.
2. Count the number of facilities available at each airport.
3. List the airports with a specific facility type.
4. Find airports with a specific facility (e.g., 'Lounge').

**Statistics**

1. List the top 5 countries with the highest number of passengers.
2. Find the most popular flights based on booking count.