

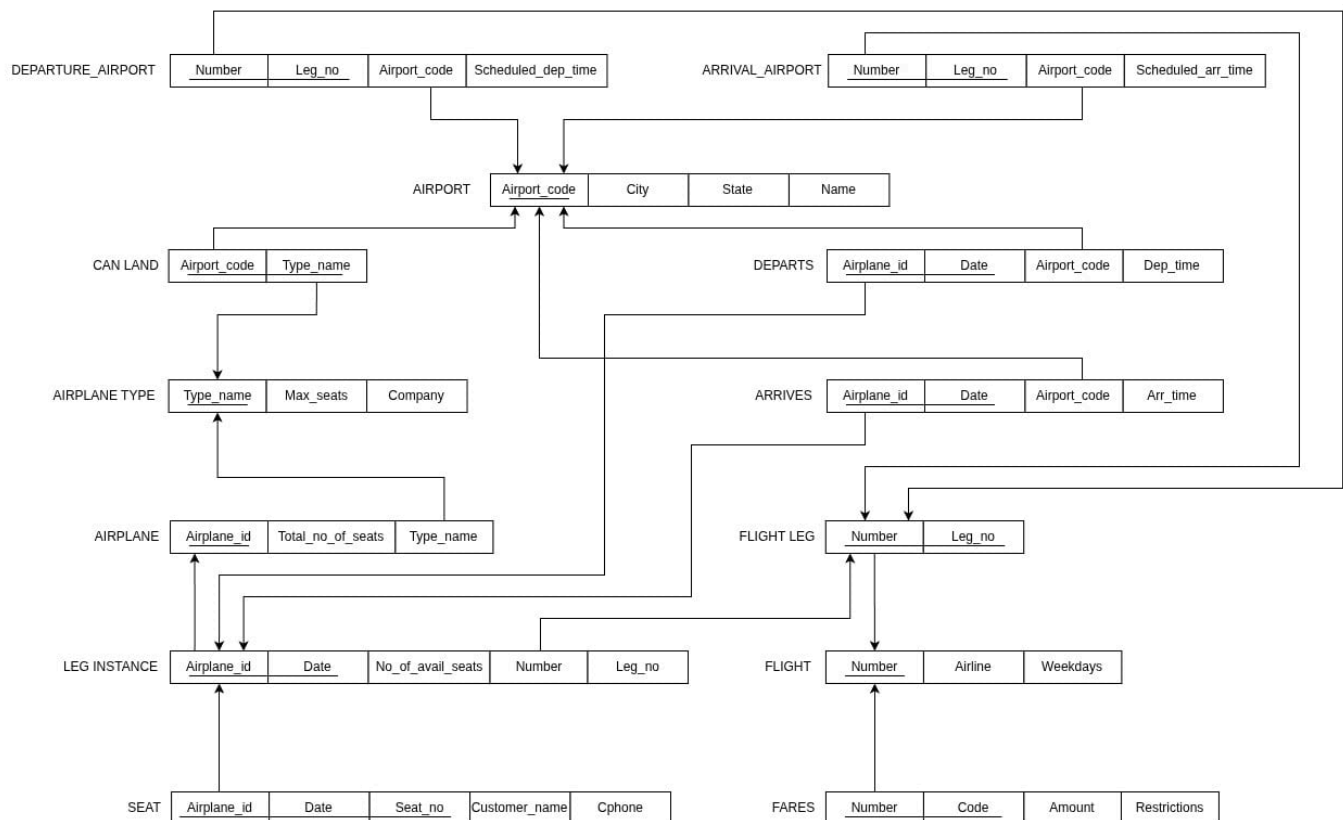
DATABASE SYSTEMS LAB REPORT

LAB 3

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Relational Diagram:



Airline Reservation System Requirements

1. Airport Management

- Store airport details (code, name, city, state)
- Track which airplane types can land at each airport

2. **Aircraft Management**

- Catalog airplane types with specifications (manufacturer, max seats)
- Track individual airplanes and their seating capacity

3. **Flight Schedule Management**

- Define flights with numbers, airlines, and operating days
- Manage flight legs (non-stop segments) with departure/arrival airports and scheduled times
- Track actual departures and arrivals with dates and times

4. **Flight Instance Management**

- Record specific occurrences of flight legs on particular dates
- Track assigned aircraft and available seats for each leg instance

5. **Fare Management**

- Store multiple fare options per flight with prices and restrictions

6. **Seat Reservation**

- Assign specific seats to customers with contact information
- Track seat availability on each flight leg instance

7. **Reporting & Queries**

- Support lookups of flights between airports
- Enable passenger manifests
- Facilitate seat availability checking