

The ER diagram illustrates the database structure for an airline system. It includes the following entities, attributes, and relationships:

- Entities and Attributes:**
  - user** (rectangle): Attributes are userID (underlined) and password (oval).
  - ticket** (rectangle): Attributes are flexible (oval), meal (oval), seatNumber (oval), bookingFee (oval), class (oval), ticketNumber (underlined), arrival (oval), numberStops (oval), departure (oval), fare (oval), purchaseTime (oval), and isRoundTrip (oval).
  - airline** (rectangle): Attribute is twoLetterID (underlined).
  - aircraft** (rectangle): Attributes are FAAID (oval), maxCapacity (oval), and name (oval).
  - flight** (double rectangle): Attributes are currentCapacity (oval), daysOfWeek (oval), flightNumber (underlined), isDomestic (oval), and dateTime (oval).
  - airport** (rectangle): Attributes are threeLetterID (underlined), city (oval), state (oval), and name (oval).
- Relationships:**
  - access** (diamond): Connects **user** and **ticket**. Attributes are timePurchased (oval) and bookingFee (oval).
  - for** (diamond): Connects **ticket** and **flight**.
  - owns** (diamond): Connects **airline** and **aircraft**.
  - on** (double diamond): Connects **aircraft** and **flight**.
  - operatesOutOf** (diamond): Connects **airline** and **airport**.
  - departs** (double diamond): Connects **flight** and **airport**. Attribute is dateTime (oval).
  - arrives** (double diamond): Connects **flight** and **airport**. Attribute is dateTime (oval).
- Specialization:**
  - An **ISA** triangle connects **user** to **admin**, **customerRep**, and **customer** (all rectangles). The constraint is {disjoint, complete}.

