

## Sample ERD Models

### Model 1 - ERD

Construct an Entity Relationship Diagram, using Chen Notation, for the following case. Be sure to note weak entities and minimum and maximum cardinalities for each relation.

A domestic airline runs a number of flights. A single flight is scheduled for a specific day and time. A flight goes from an airport and to an airport, and has a scheduled departure time and a scheduled arrival time. The flight is identified by a unique number. An airport is identified by a unique code and has a location (city, state) as well as a name. Passengers are booked on a particular instance of a flight. When they are booked on a flight, each passenger has a reserved seat. The flight instance has an actual departure time and an actual arrival time, as well as an aircraft type. A passenger is identified by their name (first and last), and may have a frequent flier number.

