

**A6 Problem 4: Airline Schemas**

**Instructions:** Write the relational model schema for your airline database in this file, using the notation we have used all term. Remember to underline primary keys. Include descriptions of other candidate keys or foreign keys (if any) immediately under each relation schema.

Example:

*foo(a, b, c)*

- *b is also a candidate key*
  - *c is a foreign key to bar.c*
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Problem 4 Schemas:

airplane (aircraft\_code, company, model)

- No foreign or candidate keys

flight (aircraft\_code, flight\_number, flight\_date, flight\_time, source, destination, domestic)

- aircraft\_code is a foreign key to airplane.aircraft\_code

seat (aircraft\_code, seat\_number, seat\_class, seat\_type, exit\_row)

- aircraft\_code is a foreign key to airplane.aircraft\_code

flight\_info (seat\_number, flight\_number, flight\_date, ticket\_id, aircraft code)

- (flight\_number, flight\_date) is a foreign key to flight(flight\_number, flight\_date)
- aircraft\_code is a foreign key to airplane.aircraft\_code
- seat\_number is a foreign key to seat.seat\_number
- ticket\_id is a foreign key to ticket.ticket\_id

ticket (ticket\_id, customer\_id, purchase\_id, sale\_price)

- customer\_id is a foreign key to customer.cust\_id
- purchase\_id is a foreign key to purchase.purchase\_id

customer (customer\_id, first\_name, last\_name, email)

- No foreign or candidate keys

phone\_numbers (customer\_id, phone\_num)

- customer\_id is a foreign key to customer.cust\_id

traveler (customer\_id, passport\_number, citizenship, emergency\_contact, emergency\_phone, frequent\_flyer\_num)

- customer\_id is a foreign key to customer.cust\_id
- passport\_number is a candidate key

purchaser (customer\_id, card\_number, exp\_date, ver\_code)

- customer\_id is a foreign key to customer.cust\_id

purchase (customer\_id, purchase\_id, purchase\_time, confirmation)

- customer\_id is a foreign key to customer.cust\_id