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|  | INFO-1215  Airport Project |

**Goal/Objective**

London International Airport would like to implement an Access database that will be used to keep track of airplanes, flights, passengers and plane maintenance.

This database needs to support the following requirements:

1. Our airline has many planes
2. Each airplane has a plane type, passenger capacity, number of restrooms
3. Each flight is scheduled for a particular date, time, departure location and arrival location. A pilot and a co-pilot is assigned to each flight
4. We do not assign seats on the airplane… passengers on our airline should be happy to a have a spot inside the plane rather than riding in the cargo bay
5. Each ticket has several taxes associated with it: HST, Airport Tax, and a Security Tax
6. Tickets can be paid by debit card, credit card, cash and Canadian tire money
7. Any maintenance requests are called work orders. You need to capture the work orders associated with any plane repairs. The following information should be associated with the work orders:
   * Identify the plane to be repaired
   * List the work to be completed (use a standard list of repairs from which to create your list of repairs)
   * Each work order has many activities associated with it
   * The employee who completed the repair should be captured as well as the date and time of the service and how many hours the maintenance service required
   * Only one repair person is required for each of the tasks within a work order
   * List any parts used during the repair process
     + A) You can list the parts used for the repair against a work order
     + …or…
     + B) You can include a list of parts associated with a typical service (i.e. Oil Change would require 200 liters of oil, 20 liters of hydraulic fluid, etc.)
   * Each plane undergoes service many times, and all its service records are kept for the life of the plane.

* All passengers, and pilots in the database have their name, address, and telephone number stored, and gender.
  + Pilots have a pilot’s license number.
  + Passengers who are members of the frequent flier program have a frequent flier number.
* Forms
  + Navigation form for the database
  + Ticket
  + Flights
  + Pilots
* Reports
  + One Flight report that includes the following information:
    - Flight Date and Time
    - Departure Airport
    - Arrival Airport
    - Flight Number
    - Name of Passenger
    - Frequent Flier Number
* Make sure to include test data; only three to five rows of test data per table.

If you have any questions related to the project please don’t hesitate to contact your professor as soon as possible