

Module 07: HQL

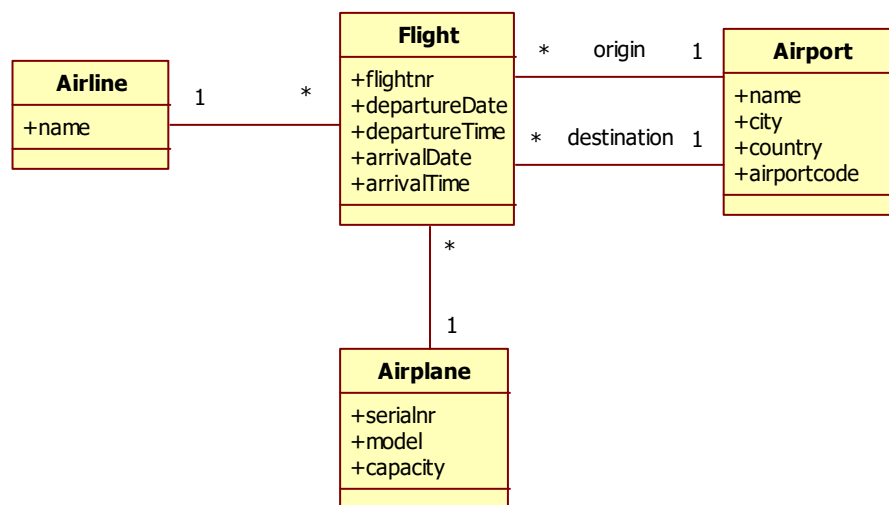
Exercise 07.1 – Hibernate Querying Language

The Setup:

In this exercise you will write several HQL queries against a given data set. Start this exercise by opening the provided **exercise-07-1** downloaded from Azure repository.

The Application:

The provided application uses the following flight scheduling problem domain.



Currently the application simply retrieves and prints all the flight info stored in the database. Running the application should produce the following output:

Flight:	Departs:	Arrives:
NW 36	Detroid 8/6/09 7:10 PM	Amsterdam 8/7/09 9:00 AM
NW 96	Tokyo 8/6/09 3:05 PM	Detroid 8/7/09 1:45 PM
QF 12	Los Angeles 8/5/09 10:30 PM	Sydney 8/7/09 6:15 AM
QF 21	Sydney 8/6/09 9:55 PM	Tokyo 8/7/09 6:55 AM
UA 944	Chicago 8/6/09 2:30 PM	Frankfurt 8/7/09 5:45 AM
UA 934	Los Angeles 8/6/09 12:59 PM	London 8/7/09 7:30 AM
NW 8445	Amsterdam 8/7/09 7:15 AM	London 8/7/09 7:40 AM
NW 1689	Detroid 8/7/09 12:05 PM	Chicago 8/7/09 12:21 PM
QF 3101	Los Angeles 8/7/09 3:00 PM	New York 8/7/09 11:39 PM
QF 4022	Tokyo 8/7/09 11:05 AM	Singapore 8/7/09 5:15 PM
UA 941	Frankfurt 8/7/09 12:45 PM	Chicago 8/7/09 2:53 PM
UA 4842	London 8/7/09 8:10 AM	Amsterdam 8/7/09 10:38 AM

The Exercise:

Look through the application code, and once you feel comfortable with what it does update the HQL queries in **Application.java** to retrieve the following data:

- a) All flights leaving the USA with a capacity > 500
- b) All airlines that use A380 (model) airplanes
- c) All flights using 747 planes that don't belong to 'Star Alliance'
- d) All flights leaving before 12pm on 08/07/2009

Hint: you cannot use an **implicit join** to traverse a One-To-Many relationship, and when you use an explicit join you should also use select statement.

Hint: just like most SQL dialects HQL expects dates to be formatted according to the ISO 8601 standard which is 'yyyy-mm-dd', not the US mm/dd/yyyy format. Times should be formatted in the 24 hour 'hh:mm:ss' format.