Due on: Thursday 30.06.2005 by 14:00 (in class)

## Exercise 1

A travel agency offers the following flights:

- a) You want to go to Rom. Write an XQuery that lists all flights to Rom. Write a second XQuery that lists all flights to Rom in order of departure. Can you express these XQueries as XPath queries?
- b) You would like to start in Baden-Baden. As there unfortunately is no direct flight from Baden-Baden to Rom, maybe you could go there by changing somewhere else? Write an XQuery that lists all possibilities to go from Baden-Baden to Rom with one transit stop in-between.
- c) Write an XQuery that lists all possibilities to go from Baden-Baden to Rom by changing as often as necessary (i.e., without a fixed upper bound for the number of transit stops for a more general case).

## Exercise 2

Classifieds for used cars are stored in the XML document *classifieds.xml* (available online)

- a) Write an XQuery that returns a list of all offered Audis with 150000 miles or less sorted by price.
- b) Write an XQuery that lists all persons mentioned in the classifieds.
- c) Extend your XQuery from b) to list with any person any cars he/she is offering in the following format:

Do not forget to include the prices!

d) Write an XQuery that matches offers and requests. The query should output a series of match-elements that contain exactly one request-element and arbitrarily many matching offer-elements, i.e., having the requested manufacturer and model (if any), at least the requested year and at most the requested miles and price.