Example Plan

1 Travel Scenario

I would like a flight from Entebbe to Amsterdam, a hotel in Amsterdam and a car to the hotel. I should be notified about the distance from the airport to the hotel. I don't mind about the price of the hotel but the shorter the distance from the airport to the hotel the better.

1.1 Plan

$searchForFlight(deptDate, arvDate, origin, destn)$

$\rightarrow bookFlight(deptDate, arvDate, origin, destn, vegMeal)$

$\rightarrow searchForHotel(chkinDate, chkoutDate, hotelLocation, roomType)$

$\rightarrow bookHotel(chkinDate, chkoutDate, roomType)$

$\rightarrow searchForCar(statDate, endDate, Address)$

$\rightarrow rentCar(statDate, endDate, city)$

$\rightarrow findDistance(statLocation, endLocation)$

On projection by role:

Hotel: searchForHotel(...), bookHotel(...)

Air: searchForFlight(...), bookFlight(...)

Car: searchForCar(...), rentCar(...)

Map: findDistance()

1.2 Signature

Input signatures

$searchForFlight(date, date, string, string)$

$bookFlight(date, date, string, string, boolean)$

$searchForHotel(date, date, string, userdefined)$

$bookHotel(date, date, userdefined)$

$searchForCar(date, date, string)$

$rentCar(date, date, string)$

$findDistance(string, string)$