2. SQL

a) Inner Join

college_name	students	town_name	town_name	pop.	settled_date
Babson	2840	Needham	Needham	28888	1680
Olin	350	Needham	Needham	28888	1680

b) Left join

Babson	2840	Needham	Needham	28888	1680
Olin	350	Needham	Needham	28888	1680
Wellesley	2474	Wellesley	null	null	null

c) Right join

Babson	2840	Needham	Needham	28888	1680
Olin	350	Needham	Needham	28888	1680
null	null	null	Dedham	24729	1635

d)

Babson	2840	Needham	Needham	28888	1680
Olin	350	Needham	Needham	28888	1680
Wellesley	2474	Wellesley	null	null	null
null	null	null	Dedham	24729	1635

1. DATALOG

a) Yes   b) No

c) Yes. You can check in polynomial time whether the solution is correct, but you might not be able to find a solution in polynomial time (for example if you need a subset of people).