

6b. (6 points) A customer wants to fly from BWI to SFO on 2 or 3 connecting flights (e.g. a flight from BWI to ORD, another from ORD to DEN and another flight from DEN to SFO). List all 2 or 3-flight options from BWI to SFO including their departure time from BWI, their arrival time in SFO and both the airport codes and name of the first city where the flight connects. ANSWER IN QBE

QBE Shortcut: \neg -> NOT

FLIGHTS	FLNO	FromCode	ToCode	DepTime	ArrTime	Price	Distance
	_f1	BWI	_a	_dep1	_t1		
	_f2	_a	_b	_t2	_t3		
	_f3	_b	SFO	_t4	_arr1		
	_f4	BWI	_c	_dep2	_t5		
	_f5	_c	SFO	_t6	_arr2		

CODE_NAMES	Code	CityName	StateName
	_a	_name1	
	_c	_name2	

RESULT	DepTimeBWI	ArrTimeSFO	ConnectCode	ConnectName	FL1	FL2	FL3
	_dep1	_arr1	_a	_name1	_f1	_f2	_f3
	_dep2	_arr2	_c	_name2	_f4	_f5	null

NOTE that the flight number columns in the result are NOT required because the problem doesn't ask for them explicitly.

Conditions
_t1 < _t2 and _t3 < _t4 and _t5 < _t6