QBE Practice

Consider the following relational schema capturing data of a university:

```
Person (string ssn,
        string name_fname,
        string name lname,
        Date birthdate)
Prevnames ( string ssn, string Pname_fname, string Pname_lname )
foreign key Prevnames.ssn references Person
Faculty (string ssn,
         string rank,
         string phone,
         string office)
       foreign key Faculty.ssn references Person
Advises (string fssn, string gssn)
      foreign key Advises.fssn references Faculty
      foreign key Advises.gssn references GradStu
Dept ( string dname,
      string address_street,
      string address city,
      string address_state,
             address_zip,
      int
             address_buildingCode)
      int
Has_faculty ( string ssn, string dname )
       foreign key has faculty.ssn references Faculty
      foreign key has faculty.dname references Dept
GradStu (string ssn, string major, real gpa)
      foreign key GradStu.ssn references Person
```

1.	Find all faculty (report ssns only) who are teaching in the CS department:
	Has_faculty ssn dname _s CS
	Faculty ssn rank phone office Ps
2.	Find all faculty (report ssns and name) who are teaching in the CS department:
	Has_faculty ssn dname _s CS
	Faculty ssn rank phone office s
	Person ssn name_fname name_lname birthdate Ps P. P.
3.	Find the department of the faculty member formerly known as Charles Xavier
	Has_faculty ssn dname _s P.
	PrevNames ssn Pname_fname Pname_lname _s Charles Xavier
4.	Find the faculty affiliated with all departments (report ssn and name)
	Stage I: find faculty for whom there is at least one department they are not affiliated with
	dname address_street address_city address_state address_zip address_buildingCode _d
	Has_faculty ssn dname Faculty ssn rank phone office _s

 $\begin{array}{c|c} \underline{Not_these} \mid \underline{ssn} \\ I. & \mid _s \end{array}$

Stage II: complement the set of faculty found at Stage I

Faculty	ssn	rank	phone	office	Not_thes	e ssn
I	_S				_	_s