

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,
 int address_zip,
 int address_buildingCode)

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:
2. Find all faculty (report ssns and name) who are teaching in the CS department:
3. Find the department of the faculty member formerly known as Charles Xavier
4. Find the faculty affiliated with all departments (report ssn and name)