DSE Beyond Relational Models
in-class practice Day 1

# 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)