### CS350 HW2

# Write some queries (DUE Week 3 - Friday night at midnight)

```
MySQL [sunypoly]> select fname, lname, address
   -> from employee, department
   -> where dnumber=dno and
             dname='Research';
 fname
           lname
                    address
          | English | 5631 Rice, Houston, TX
 Joyce
            Narayan | 971 Fire Oak, Humble, TX
 Ramesh
                     731 Fondren, Houston, TX
 John
            Smith
 Franklin | Wong
                     638 Voss, Houston, TX
4 rows in set (0.108 sec)
MySQL [sunypoly]>
```

```
MySQL [sunypoly]> (select distinct pnumber
    -> from project,department,employee
    -> where dnum=dnumber and mgrssn=ssn and lname='Smith')
    -> union
    -> (select pnumber
    -> from project,works_on,employee
    -> where pnumber=pno and essn=ssn and lname='Smith');
+----+
| pnumber |
+-----+
2 rows in set (0.109 sec)
MySQL [sunypoly]>
```

### **Question 1**

a.

Missing area code

b.

I would make a new attribute area code under student

C.

advantage, can sort by different parts of name, can get different parts of name, don't always need to use full name

disadvantage, takes more memory, larger table

d.

Split information when it can be broken into multiple parts

don't split when you need all of it together and never apart

e.

design 1: table for each phone

design 2: table for each user

## Question 2:

a.

SELECT Name

FROM STUDENT

WHERE Class=4 AND Major='CS';

b.

SELECT CourseName

FROM COURSE, SECTION

WHERE COURSE.CourseNumber=SECTION.CourseNumber AND Instructor='King'

AND (Year='2007' OR Year='2008');

C.

Select section.course\_number,section.semester,section.year,student.name
From Section, Student, Grade\_report
Where student.student\_number=Grade\_report.student\_number and
Grade\_report.section\_identifier = section.section\_identifier
and Instructor = 'King';

#### d.

Select Student.name, Course.course\_name, Course.course\_number,

Course.credit\_hours,Section.semester,Section.year,Grade\_report.grade

From Student, Course, Section, Grade\_report

Where Course.Course\_number = Section.Course\_number and

Section.Section\_identifier = Grade\_report.Section\_identifier

and Grade\_report.Student\_number = Student.Student\_number and Class = 04;