Stevens Institute of Technology

Department of Computer Science

CS442: Database Management System

Fall 2016

**Handout 5. SQL Nested and Aggregate Queries (**October 19, 2016)

Given the schema:

* + Student (snum, sname, major, level, age)
  + Class (cname, meets\_date, room, fid)
  + Enrolled (snum, cname)
  + Faculty (fid, fname, deptid)
* Q1: Find the age of the oldest student who is enrolled in a course taught by Adam Smith, by (1) without using nested queries, and (2) using nested queries.
* Q2: Find the names of all classes that either meet in room Babbio310 or have 2 or more  
  students enrolled, by (1) without using nested queries, and (2) using nested queries.
* Q3: Find the names of students who are not enrolled in any class, by using nested queries;

* Q4: Find the names of students enrolled in the maximum number of classes, by using nested queries;
* Q5: Find the names of faculty members *who teach in every room in which* some class is taught, by using nested queries.