

# Course ISE 322: Database Systems

## Recitation 9a: Nested Queries

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December 14, 2009

Answer the following queries in SQL using nested queries. There may be other ways to answer the query, but in this case try to use nested queries.

The following queries are based on the following schemas:

```
Sailors(sid:integer, sname:string, rating:integer, age:real)
Boats(bid:integer, bname:string, color:string)
Reserves(sid:integer, bid:integer, day:date)
```

and

```
Student(snum:integer, sname:string, major:string, level:string, age:integer)
Class(name:string, meets_at:time, room:string, fid:integer)
Enrolled(snum:integer, cname:string)
Faculty(fid:integer, fname:string, deptid:integer)
```

### 1 Nested Queries

1. Find the names of sailors who have reserved both a red and a green boat (Don't use INTERSECT here)
2. Find the names of sailors who have reserved both a red and a green boat (Use nesting and INTERSECT here)
3. Find the names of sailors who have reserved all boats
4. Find the names of sailors who have reserved all boats (don't use EXCEPT)
5. Find the names of all students who are enrolled in two classes that meet at the same time
6. Find the names of faculty members who teach in every room in which some class is taught.
7. Find the names of students not enrolled in any class.