

**Lab exercises**

2.12.2010

Consider the following relations containing sailing information:

sailors(sid, sname, rating, age)

boats(bid, bname, color)

reserves(sid, bid, rdate)

1. Create the tables using SQL in MySQL.
2. Insert the following data into tables:

Sailors:

18,jones,3,30.0  
 41,jonah,6,56.0  
 22,ahab,7,44.0  
 63,moby,2,15.0  
 36,lubber,4,15.0

Boats:

101,Interlake,blue  
 102,Interlake,red  
 103,Clipper,green  
 104,Marine,red

Reserves:

22,101,96-10-10  
 22,103,96-10-15  
 41,102,96-10-11  
 22,102,96-10-25  
 36,102,96-10-25  
 63,101,99-11-3

3. Write the following queries in SQL:
  - (a) Find the names of sailors who have reserved boat 103
  - (b) Find the names of sailors who have reserved a red boat.
  - (c) Find the colors of boats reserved by Lubber.
  - (d) Find the names of sailors who have reserved at least one boat.
  - (e) Find the names of sailors who have reserved a red or a green boat.
  - (f) Find the names of sailors who have reserved both a red and a green boat.
  - (g) Find the names of sailors who have reserved all boats.