Lab1

Use MySql and PHP on Linux or Windows

- Install PHP7.0, Apache2, Mariadb (or Mysql 5)
- Try the tutorial
- https://www.howtoforge.com/tutorial/install-apa che-with-php-and-mysql-on-ubuntu-16-04-lamp
- If you have already got PHP and Mysql installed, then do not change the installation.

Example Database

Sailors

sid	snam e	rating	age
1	Fred	7	22
2	Jim	2	39
3	Nancy	8	27

Boats

bid	bname	color
101	Nina	red
102	Pinta	blue
103	Santa Maria	red

Reserves

sid	bid	day
1	102	9/12/201 5
2	102	9/13/201 5

Try it Yourself

```
CREATE TABLE Sailors (sid INTEGER,
 sname CHAR(20),
 rating INTEGER,
 age REAL,
 PRIMARY KEY (sid));
CREATE TABLE Boats (
 bid INTEGER,
 bname CHAR (20),
 color CHAR(10),
 PRIMARY KEY (bid));
CREATE TABLE Reserves (
 sid INTEGER, bid INTEGER,
 day DATE,
 PRIMARY KEY (sid, bid, day),
 FOREIGN KEY (sid) REFERENCES Sailors,
 FOREIGN KEY (bid) REFERENCES Boats);
```

```
INSERT INTO Sailors VALUES
  (1, 'Fred', 7, 22),
  (2, 'Jim', 2, 39),
  (3, 'Nancy', 8, 27);
INSERT INTO Boats VALUES
  (101, 'Nina', 'red'),
  (102, 'Pinta', 'blue'),
  (103, 'Santa Maria', 'red');
INSERT INTO Reserves VALUES
  (1, 102, '2016-08-30'),
  (2, 102, '2016-08-31');
```

Implement these queries

- Find all 27-year-old sailors
- Find the names and ages of all sailors
- Find all sailors with a rating > 7
- Find the names of sailors who have reserved boat no X, where X is a valid boat number input from the screen.
- Find the sids of all sailors who have reserved a C boat where C is a valid colour, input from the screen.