IT 478 Lab #1

Copy the following DDL into SQL Developer and create the drop table Reserves, Sailors and Boats tables. Then answer questions 1-6 below

Use **SET ECHO ON** and **RUN SCRIPT** to submit a single file with both SQL and results.

Do not type out results – use **SET ECHO ON** to do this for you.

-- LAB #1 DDL--

-- DROP TABLES IF EXISTS.

DROP TABLE reserves;

DROP TABLE sailors;

DROP TABLE boats;

-- CREATE TABLES

CREATE TABLE sailors(

      sid   INT NOT NULL CONSTRAINT sailors_PK PRIMARY KEY,

      sname   VARCHAR2(20),

      rating   INT,

      age   DECIMAL(4,1)

);

CREATE TABLE boats(

      bid   INT NOT NULL CONSTRAINT BOAT_PK PRIMARY KEY,

      bname   VARCHAR2(20),

      color   VARCHAR2(20)

     );

CREATE TABLE reserves(

      sid   INT,

      bid   INT,

      day   DATE,

      PRIMARY KEY (sid,bid,day),

      FOREIGN KEY (sid) REFERENCES sailors(sid) ON DELETE CASCADE,

      FOREIGN KEY (bid) REFERENCES boats(bid) ON DELETE CASCADE

);

```
-- INITIALIZE THE TABLES


INSERT INTO sailors (sid,sname,rating,age) VALUES(22,'Dustin',7,45.0);

INSERT INTO sailors (sid,sname,rating,age) VALUES(29,'Brutus',1,33.0);

INSERT INTO sailors (sid,sname,rating,age) VALUES(31,'Lubber',8,55.5);

INSERT INTO sailors (sid,sname,rating,age) VALUES(32,'Andy',8,25.5);

INSERT INTO sailors (sid,sname,rating,age) VALUES(58,'Rusty',10,35.0);

INSERT INTO sailors (sid,sname,rating,age) VALUES(64,'Horataio',7,35.0);

INSERT INTO sailors (sid,sname,rating,age) VALUES(71,'Zorba',10,16.0);

INSERT INTO sailors (sid,sname,rating,age) VALUES(74,'Horataio',9,35.0);

INSERT INTO sailors (sid,sname,rating,age) VALUES(85,'Art',3,25.5);

INSERT INTO sailors (sid,sname,rating,age) VALUES(95,'Bob',3,63.5);


INSERT INTO boats (bid,bname,color) VALUES(101,'Interlake','blue');

INSERT INTO boats (bid,bname,color) VALUES(102,'Interlake','red');

INSERT INTO boats (bid,bname,color) VALUES(103,'Clipper','green');

INSERT INTO boats (bid,bname,color) VALUES(104,'Marine','red');


INSERT INTO reserves(sid,bid,day) VALUES(58,101,'10-OCT-20');

INSERT INTO reserves(sid,bid,day) VALUES(58,102,'10-OCT-20');

INSERT INTO reserves(sid,bid,day) VALUES(58,103,'8-OCT-20');

INSERT INTO reserves(sid,bid,day) VALUES(29,104,'7-OCT-20');

INSERT INTO reserves(sid,bid,day) VALUES(29,102,'10-Nov-20');

INSERT INTO reserves(sid,bid,day) VALUES(71,103,'6-NOV-20');

INSERT INTO reserves(sid,bid,day) VALUES(74,104,'12-NOV-20');

INSERT INTO reserves(sid,bid,day) VALUES(64,101,'5-SEP-20');

INSERT INTO reserves(sid,bid,day) VALUES(64,102,'8-SEP-20');

INSERT INTO reserves(sid,bid,day) VALUES(74,103,'8-SEP-20');


COMMIT;
-- END LAB #1 DDL--
```

-- Lab #1 Questions

--1 Find the names of sailors who have reserved boat number 102
--2 Find the names of sailors who have reserved any boat other than boat number 102

EXTRA CREDIT
+2 points extra for --- find ALL sailors who have NEVER reserved boat 102

--3 Find the names of sailors who have reserved a blue boat
--4 Find the colors of boats reserved by Rusty
--5 Find the names of sailors who have reserved at least one boat
--6 Find the names of sailors who have reserved a red or a blue boat

-- DO NOT SUBMIT THIS PART
--7 After you have completed all of the above, drop the
Reserves, Sailors and Boats tables (*SQL is shown above*)