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

```
SQL> select * from sailors;

       SID SNAME                    RATING        AGE
---------- -------------------- ---------- ----------
        22 Dustin                        7         45
        29 Brutus                        1         33
        31 Lubber                        8       55.5
        32 Andy                          8       25.5
        58 Rusty                        10         35
        64 Horataio                      7         35
        71 Zorba                        10         16
        74 Horataio                      9         35
        85 Art                           3       25.5
        95 Bob                           3       63.5
10 rows selected.
SQL> select * from reserves;
       SID        BID DAY
---------- ---------- ---------
        22        101 10-OCT-98
        22        102 10-OCT-98
        22        103 08-OCT-98
        22        104 07-OCT-98
        31        102 10-NOV-98
        31        103 06-NOV-98
        31        104 12-NOV-98
        64        101 05-SEP-98
        64        102 08-SEP-98
        74        103 08-SEP-98
10 rows selected.
SQL> select * from boats;

       BID BNAME                COLOR
---------- -------------------- --------------------
       101 Interlake            blue
       102 Interlake            red
       103 Clipper              green
       104 Marine               red
```

a) Names of sailors who have reserved red boats

```
select sname
from sailors s,boats b,reserves r
where s.sid=r.sid and b.bid=r.bid and b.color='red';
```

b) Find the names of the sailors whohave reserved atleast one boat

Select sname from sailors

Where sid in (select sid from reserves)

C) Find the names of sailors who have reserved both a red and a green boat?

```
select s.sid,s.sname
  from sailors s,boats b,reserves r
  where s.sid=r.sid and b.bid=r.bid and b.color='red'
  INTERSECT
  select s.sid,s.sname
  from sailors s,boats b,reserves r
   where s.sid=r.sid and b.bid=r.bid and b.color='green';
```

d)Find the ids of sailors who have reserved a red boat or a green boat.

```
SELECT R.sid
FROM Boats B, Reserves R
WHERE R.bid = B.bid AND B.color = ‘red’
UNION
SELECT R2.sid
 FROM Boats B2, Reserves R2
WHERE R2.bid = B2.bid AND B2.color = ‘green’
```

C) Find the names of sailors who have reserved all boats?

```
select s.sid,s.sname
from sailors s
where not exists (select b.bid
from boats b
where not exists (select r.bid
from reserves r
where r.bid=b.bid and r.sid=s.sid));
```