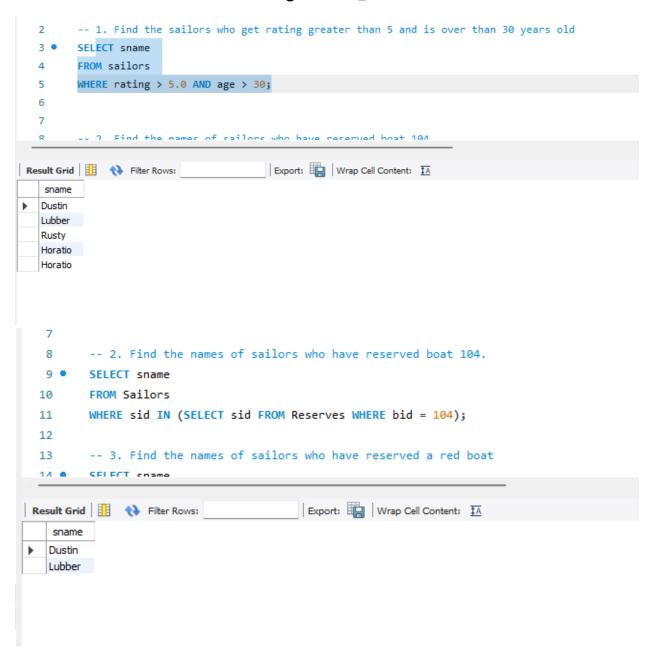
Name: Chea Senghak

ID: e20211624

Assignment08_DML



```
-- 3. Find the names of sailors who have reserved a red boat
 13
 14 •
       SELECT sname
 15
       FROM Sailors
       WHERE sid IN (SELECT sid FROM Reserves R JOIN Boats B ON R.bid = B.bid WHERE B.color = 'red');
 16
 17
        -- 4. Find the colors of boats reserved by Lubber
 18
       SELECT DISTINCT B.color
 19 •
        EDOM Roate R
                                 Export: Wrap Cell Content: IA
Result Grid Filter Rows:
Dustin
  Lubber
  Horatio
          -- 4. Find the colors of boats reserved by Lubber
        SELECT DISTINCT B.color
  19 •
  20
          FROM Boats B
          JOIN Reserves R ON B.bid = R.bid
  21
         JOIN Sailors S ON R.sid = S.sid
  22
  23
          WHERE S.sname = 'Lubber';
  24
 Export: Wrap Cell Content: IA
    color
   red
   green
25
       -- 5. Find the names of sailors who have reserved at least one boat.
       SELECT DISTINCT sname
26 •
       FROM Sailors
27
       WHERE sid IN (SELECT sid FROM Reserves);
28
29
       -- 6. Find the names of sailors who have reserved a red or a green boat
30
       SELECT DISTINCT S.sname
32
       FROM Sailors S
33
       JOIN Reserves R ON S.sid = R.sid
sname
 Dustin
 Lubber
 Horatio
```

```
-- 6. Find the names of sailors who have reserved a red or a green boat
 30
 31 •
       SELECT DISTINCT S.sname
 32
       FROM Sailors S
        JOIN Reserves R ON S.sid = R.sid
 33
        JOIN Boats B ON R.bid = B.bid
       WHERE B.color IN ('red', 'green');
 35
Export: Wrap Cell Content: IA
Dustin
  Lubber
  Horatio
 37
        -- 7. Find the names of sailors who have reserved a red and a green boat.
 38 •
        SELECT sname
        FROM Sailors
 39
 40

⊖ WHERE sid IN (
 41
           SELECT sid
            FROM Reserves
 42
 43
            JOIN Boats ON Reserves.bid = Boats.bid
            WHERE color = 'red'
 44
        ) AND sid IN (
 45
            SELECT sid
 46
 47
            FROM Reserves
            JOIN Boats ON Reserves.bid = Boats.bid
 48
            WHERE color = 'green'
 50
 51
Export: Wrap Cell Content: TA
   sname
  Dustin
  Lubber
  21
          -- 8. Find the names of sailors who have reserved at least two boats.
          SELECT sname
          FROM Sailors
  55
       ⊖ WHERE sid IN (
             SELECT sid
  56
             FROM Reserves
  57
             GROUP BY sid
  58
             HAVING COUNT(*) >= 2
  59
         );
  60
  61
          -- 9. Find the names of sailors with age over 20 who have not reserved a red boat.
  62
          SELECT sname
  63 •
 Result Grid Filter Rows:
                                          Export: Wrap Cell Content: 1A
    sname
   Dustin
    Lubber
    Horatio
```

```
-- 9. Find the names of sailors with age over 20 who have not reserved a red boat.
   62
          SELECT sname
   63 •
          FROM Sailors
   64

    WHERE age > 20 AND sid NOT IN (
              SELECT sid
   66
              FROM Reserves
   67
              JOIN Boats ON Reserves.bid = Boats.bid
   68
   69
              WHERE color = 'red'
   70
   71
          -- 10. Find the names of boat that is reserved by Dustin but not by Lubber.
   72
   73 •
          SELECT b.Bname
   74
          FROM Boats b
   75
          JOIN Reserves r ON b.bid = r.bid
                                        Export: Wrap Cell Content: IA
 sname
    Brutus
    Andy
    Rusty
    Horatio
    Art
    Bob
 72
        -- 10. Find the names of boat that is reserved by Dustin but not by Lubber.
 73 •
       SELECT b.Bname
 74
       FROM Boats b
       JOIN Reserves r ON b.bid = r.bid
 75
       JOIN Sailors s ON r.sid = s.sid
     77
 78
       SELECT r1.bid
           FROM Reserves r1
 79
 80
           JOIN Sailors s1 ON r1.sid = s1.sid
           WHERE s1.sname = 'Lubber'
 81
 82
 83
 84
                                 Export: Wrap Cell Content: IA
Bname
▶ Interlake
```