**QUESTION-2**

**Create the following tables and execute the queries given below**

SAILOR

|  |  |  |  |
| --- | --- | --- | --- |
| sid | sname | rating | age |
| 22 | Dustin | 7 | 45 |
| 29 | Brutas | 1 | 33 |
| 31 | Lubber | 8 | 55 |
| 32 | Andy | 8 | 25 |
| 58 | Rusty | 10 | 35 |
| 64 | Horatio | 7 | 35 |
| 71 | Zorba | 10 | 16 |
| 74 | Horatio | 9 | 35 |
| 85 | Art | 3 | 26 |
| 95 | Bob | 3 | 64 |

BOAT

|  |  |  |
| --- | --- | --- |
| Bid | bname | color |
| 101 | Interlake | Blue |
| 102 | Interlake | Red |
| 103 | Clipper | Green |
| 104 | Marine | Red |

RESERVE

|  |  |  |
| --- | --- | --- |
| sid | bid | day |
| 22 | 101 | 10/10/98 |
| 22 | 102 | 10/10/98 |
| 22 | 103 | 10/8/98 |
| 22 | 104 | 10/7/98 |
| 31 | 102 | 11/10/98 |

|  |  |  |
| --- | --- | --- |
| 31 | 103 | 11/6/98 |
| 31 | 104 | 11/12/98 |
| 64 | 101 | 9/5/98 |
| 64 | 102 | 9/8/98 |
| 74 | 103 | 9/8/98 |

SQL> CREATE TABLE SAILOR(SID NUMBER(20)PRIMARY KEY,SNAME VARCHAR(25),RATING NUMBER(20),AGE NUMBER(3));

Table created.

SQL> CREATE TABLE BOAT(BID NUMBER(10)PRIMARY KEY,BNAME VARCHAR(25),COLOR VARCHAR(20));

Table created.

SQL> CREATE TABLE RESERVE(SID NUMBER REFERENCES SAILOR(SID),BID NUMBER REFERENCES BOAT(BID),DAY DATE);

Table created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 22

Enter value for sname: Dustin

Enter value for rating: 7

Enter value for age: 45

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(22,'Dustin',7,45)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 29

Enter value for sname: Brutas

Enter value for rating: 1

Enter value for age: 33

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(29,'Brutas',1,33)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 31

Enter value for sname: Lubber

Enter value for rating: 8

Enter value for age: 55

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(31,'Lubber',8,55)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 32

Enter value for sname: Andy

Enter value for rating: 8

Enter value for age: 25

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(32,'Andy',8,25)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 58

Enter value for sname: Rusty

Enter value for rating: 10

Enter value for age: 35

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(58,'Rusty',10,35)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 64

Enter value for sname: Horatio

Enter value for rating: 7

Enter value for age: 35

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(64,'Horatio',7,35)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 71

Enter value for sname: Zorba

Enter value for rating: 10

Enter value for age: 16

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(71,'Zorba',10,16)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 74

Enter value for sname: Horatio

Enter value for rating: 9

Enter value for age: 35

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(74,'Horatio',9,35)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 85

Enter value for sname: Art

Enter value for rating: 3

Enter value for age: 26

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(85,'Art',3,26)

1 row created.

SQL> INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE);

Enter value for sid: 95

Enter value for sname: Bob

Enter value for rating: 3

Enter value for age: 64

old 1: INSERT INTO SAILOR VALUES(&SID,'&SNAME',&RATING,&AGE)

new 1: INSERT INTO SAILOR VALUES(95,'Bob',3,64)

1 row created.

SQL> SELECT \* FROM SAILOR;

SID SNAME RATING AGE

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22 Dustin 7 45

29 Brutas 1 33

31 Lubber 8 55

32 Andy 8 25

58 Rusty 10 35

64 Horatio 7 35

71 Zorba 10 16

74 Horatio 9 35

85 Art 3 26

95 Bob 3 64

10 rows selected.

SQL> INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR');

Enter value for bid: 101

Enter value for bname: iNTERLAKE

Enter value for color: BLUE

old 1: INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR')

new 1: INSERT INTO BOAT VALUES(101,'iNTERLAKE','BLUE')

1 row created.

SQL> INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR');

Enter value for bid: 102

Enter value for bname: interlake

Enter value for color: red

old 1: INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR')

new 1: INSERT INTO BOAT VALUES(102,'interlake','red')

1 row created.

SQL> INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR');

Enter value for bid: 103

Enter value for bname: clipper

Enter value for color: green

old 1: INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR')

new 1: INSERT INTO BOAT VALUES(103,'clipper','green')

1 row created.

SQL> INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR');

Enter value for bid: 104

Enter value for bname: marine

Enter value for color: red

old 1: INSERT INTO BOAT VALUES(&BID,'&BNAME','&COLOR')

new 1: INSERT INTO BOAT VALUES(104,'marine','red')

1 row created.

SQL> SELECT \* FROM BOAT;

BID BNAME COLOR

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101 interlake blue

102 interlake RED

103 clipper green

104 marine RED

SQL> INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY');

Enter value for sid: 22

Enter value for bid: 101

Enter value for day: 10-OCT-98

old 1: INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY')

new 1: INSERT INTO RESERVE VALUES(22,101,'10-OCT-98')

1 row created.

SQL> INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY');

Enter value for sid: 22

Enter value for bid: 102

Enter value for day: 10-OCT-98

old 1: INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY')

new 1: INSERT INTO RESERVE VALUES(22,102,'10-OCT-98')

1 row created.

SQL> INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY');

Enter value for sid: 22

Enter value for bid: 103

Enter value for day: 10-AUG-98

old 1: INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY')

new 1: INSERT INTO RESERVE VALUES(22,103,'10-AUG-98')

1 row created.

SQL> INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY');

Enter value for sid: 22

Enter value for bid: 104

Enter value for day: 10-JULY-98

old 1: INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY')

new 1: INSERT INTO RESERVE VALUES(22,104,'10-JULY-98')

1 row created.

SQL> INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY');

Enter value for sid: 31

Enter value for bid: 102

Enter value for day: 11-OCT-98

old 1: INSERT INTO RESERVE VALUES(&SID,&BID,'&DAY')

new 1: INSERT INTO RESERVE VALUES(31,102,'11-OCT-98')

1 row created.

SQL> SELECT \* FROM RESERVE;

SID BID DAY

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22 101 10-OCT-98

22 102 10-OCT-98

22 103 10-AUG-98

22 104 10-JUL-98

31 102 11-OCT-98

31 103 11-JUN-98

31 104 11-DEC-98

64 101 09-MAY-98

64 102 09-AUG-98

74 103 09-AUG-98

1) Find the name and age of all sailor

SQL> SELECT SNAME,AGE FROM SAILOR;

SNAME AGE

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Dustin 45

Brutas 33

Lubber 55

Andy 25

Rusty 35

Horatio 35

Zorba 16

Horatio 35

Art 26

Bob 64

**2)** Find all information of sailors who have reserved boat number 101.

SQL> SELECT \* FROM SAILOR S,RESERVE R WHERE S.SID=R.SID AND R.BID=101;

SID SNAME RATING AGE SID BID DAY

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22 Dustin 7 45 22 101 10-OCT-98

64 Horatio 7 35 64 101 09-MAY-98

3) Find all sailors with rating above 7

SQL> SELECT SNAME FROM SAILOR WHERE RATING>7;

SNAME

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Lubber

Andy

Rusty

Zorba

Horatio

4) Find the names of sailors who have reserved boat no 103

SQL> SELECT SNAME FROM SAILOR S,RESERVE R WHERE S.SID=R.SID AND R.BID=103;

SNAME

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Dustin

Lubber

Horatio

5) Find the names of sailors who have reserved a red boat, and list in the order of age.

SQL> SELECT DISTINCT S.SNAME,S.AGE FROM SAILOR S,RESERVE R,BOAT B WHERE S.SID=R.SID AND R.BID=B.BID AND B.COLOR='red' ORDER BY S.AGE;

SNAME AGE

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Horatio 35

Dustin 45

Lubber 55

6) Find the names of sailors who have reserved either a red or green boat

SQL> SELECT DISTINCT S.SNAME FROM SAILOR S,RESERVE R,BOAT B WHERE S.SID=R.SID AND R.BID=B.BID AND B.COLOR='green' UNION SELECT S1.SNAME FROM SAILOR S1,RESERVE R1,BOAT B1 WHERE S1.SID=R1.SID AND R1.BID=B1.BID AND B1.COLOR='red';

SNAME

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Dustin

Horatio

Lubber

7) Find the colors of boats reserved by “Lubber”.