QUESTION-2

Create the following tables and execute the queries given below

SAILORS

|  |  |  |  |
| --- | --- | --- | --- |
| 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 |

BOATS

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

RESERVES

| 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 SAILORS(SID NUMBER(10) PRIMARY KEY,SNAME VARCHAR(10),RATING NUMBER(10),AGE NUMBER(10));

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

SQL> CREATE TABLE RESERVES (SID NUMBER REFERENCES SAILORS(SID) ,BID NUMBER REFERENCES BOATS(BID) ,DAY DATE);

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

new 1: INSERT INTO SAILORS VALUES('22','DUSTIN','7','45')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('29','BRUTAS','1','33')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('31','LUBBER','8','55')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('32','ANDY','8','25')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('58','RUSTY','10','35')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('64','HORATIO','7','35')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('71','ZORBA','10','16')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('74','HORATIO','9','35')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('85','ART','3','26')

1 row created.

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

new 1: INSERT INTO SAILORS VALUES('95','BOB','3','64')

1 row created.

SQL> SELECT \* FROM SAILORS;

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

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

Enter value for bid: 101

Enter value for bname: INTERLAKE

Enter value for color: BLUE

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

new 1: INSERT INTO BOATS VALUES('101','INTERLAKE','BLUE')

1 row created.

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

Enter value for bid: 102

Enter value for bname: INTERLAKE

Enter value for color: RED

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

new 1: INSERT INTO BOATS VALUES('102','INTERLAKE','RED')

1 row created.

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

Enter value for bid: 103

Enter value for bname: CLIPPER

Enter value for color: GREEN

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

new 1: INSERT INTO BOATS VALUES('103','CLIPPER','GREEN')

1 row created.

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

Enter value for bid: 104

Enter value for bname: MARINE

Enter value for color: RED

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

new 1: INSERT INTO BOATS VALUES('104','MARINE','RED')

1 row created.

SQL> SELECT \*FROM BOATS;

BID BNAME COLOR

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101 INTERLAKE BLUE

102 INTERLAKE RED

103 CLIPPER GREEN

104 MARINE RED

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

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

1 row created.

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

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

1 row created.

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

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

1 row created.

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

Enter value for sid: 22

Enter value for bid: 104

Enter value for day: 10-JUL-98

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

new 1: INSERT INTO RESERVES VALUES('22','104','10-JUL-98')

1 row created.

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

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

1 row created.

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

Enter value for sid: 31

Enter value for bid: 103

Enter value for day: 11-JUN-98

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

new 1: INSERT INTO RESERVES VALUES('31','103','11-JUN-98')

1 row created.

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

Enter value for sid: 31

Enter value for bid: 104

Enter value for day: 11-DEC-98

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

new 1: INSERT INTO RESERVES VALUES('31','104','11-DEC-98')

1 row created.

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

Enter value for sid: 64

Enter value for bid: 101

Enter value for day: 9-MAY-98

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

new 1: INSERT INTO RESERVES VALUES('64','101','9-MAY-98')

1 row created.

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

Enter value for sid: 64

Enter value for bid: 102

Enter value for day: 9-AUG-98

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

new 1: INSERT INTO RESERVES VALUES('64','102','9-AUG-98')

1 row created.

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

Enter value for sid: 74

Enter value for bid: 103

Enter value for day: 9-AUG-98

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

new 1: INSERT INTO RESERVES VALUES('74','103','9-AUG-98')

1 row created.

SQL> SELECT \* FROM RESERVES;

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

10 rows selected.

1. Find the names and ages of all sailors.

SQL> SELECT SNAME,AGE FROM SAILORS;

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

10 rows selected.

1. Find all information of sailors who have reserved boat number 101.

SELECT \* FROM SAILORS S,RESERVES 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

1. Find all sailors with rating above 7

SQL> SELECT SNAME FROM SAILORS WHERE RATING>7;

SNAME

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LUBBER

ANDY

RUSTY

ZORBA

HORATIO

1. Find the names of sailors who have reserved boat no 103

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

SNAME

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DUSTIN

LUBBER

HORATIO

1. 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 SAILORS S,RESERVES R,BOATS 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

1. Find the names of sailors who have reserved either a red or green boat

SQL> SELECT DISTINCT S.SNAME FROM SAILORS S,RESERVES R,BOATS B WHERE S.SID=R.SID AND R.BID=B.BID AND B.COLOR='GREEN' UNION SELECT S1.SNAME FROM SAILORS S1,RESERVES R1,BOATS 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”.