**SAILORS**

SQL> CREATE TABLE SAILORS(sid NUMBER(2),sname VARCHAR(15),rating NUMBER(2),age NUMBER(2), PRIMARY KEY (sid));

Table created.

SQL> desc SAILORS;

Name Null? Type

----------------------------------------- -------- ----------------------------

SID NOT NULL NUMBER(2)

SNAME VARCHAR2(15)

RATING NUMBER(2)

AGE NUMBER(2)

SQL> insert into SAILORS values(22,'Dustin',7,45);

1 row created.

SQL> insert into SAILORS values(29,'Brutas',1,33);

1 row created.

SQL> insert into SAILORS values(31,'Lubber',8,55);

1 row created.

SQL> insert into SAILORS values(32,'Andy',8,55);

1 row created.

SQL> insert into SAILORS values(58,'Rusty',10,35);

1 row created.

SQL> insert into SAILORS values(64,'Horatio',7,35);

1 row created.

SQL> insert into SAILORS values(71,'Zorba',10,16);

1 row created.

SQL> insert into SAILORS values(74,'Horatio',9,35);

1 row created.

SQL> insert into SAILORS values(85,'Art',3,26);

1 row created.

SQL> insert into SAILORS values(95,'Bob',3,64);

1 row created.

SQL> select \* from SAILORS;

SID SNAME RATING AGE

---------- --------------- ---------- ----------

22 Dustin 7 45

29 Brutas 1 33

31 Lubber 8 55

32 Andy 8 55

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**

SQL> CREATE TABLE BOATS(Bid NUMBER(3),bname VARCHAR(15),color VARCHAR(10),PRIMARY KEY(Bid));

Table created.

SQL> insert into BOATS values(101,'Interlake','Blue');

1 row created.

SQL> insert into BOATS values(102,'Interlake','Red');

1 row created.

SQL> insert into BOATS values(103,'Clipper','Green');

1 row created.

SQL> insert into BOATS values(104,'Marine','Red');

1 row created.

SQL> select \* from BOATS

2 ;

BID BNAME COLOR

---------- --------------- ----------

101 Interlake Blue

102 Interlake Red

103 Clipper Green

104 Marine Red

**RESERVES**

SQL> create table RESERVES(sid NUMBER(2),Bid NUMBER(3),day DATE,FOREIGN KEY (sid) REFERENCES SAILORS(sid),FOREIGN KEY (Bid) REFERENCES BOATS(Bid));

Table created.

SQL> desc RESERVES;

Name Null? Type

----------------------------------------- -------- ----------------------------

SID NUMBER(2)

BID NUMBER(3)

DAY DATE

SQL> insert into RESERVES(22,101,'10-OCT-98');

insert into RESERVES(22,101,'10-OCT-98')

\*

ERROR at line 1:

ORA-00928: missing SELECT keyword

SQL> insert into RESERVES values(22,101,'10-OCT-98');

1 row created.

SQL> insert into RESERVES values(22,102,'10-OCT-98');

1 row created.

SQL> insert into RESERVES values(22,103,'10-AUG-98');

1 row created.

SQL> insert into RESERVES values(22,104,'10-JUL-98');

1 row created.

SQL> insert into RESERVES values(31,102,'11-OCT-98');

1 row created.

SQL> insert into RESERVES values(31,103,'11-JUN-98');

1 row created.

SQL> insert into RESERVES values(31,104,'11-DEC-98');

1 row created.

SQL> insert into RESERVES values(64,101,'09-MAY-98');

1 row created.

SQL> insert into RESERVES values(64,102,'09-AUG-98');

1 row created.

SQL> insert into RESERVES values(74,103,'09-AUG-98');

1 row created.

SQL> select \* from REVSERVES;

select \* from REVSERVES

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> select \* from RESERVES;

SID BID DAY

---------- ---------- ---------

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

--------------- ----------

Dustin 45

Brutas 33

Lubber 55

Andy 55

Rusty 35

Horatio 35

Zorba 16

Horatio 35

Art 26

Bob 64

10 rows selected.

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

SQL> select \* from sailors s,reserves r where s.sid=r.sid and r.bid=101;

SID SNAME RATING AGE SID BID DAY

---------- --------------- ---------- ---------- ---------- ---------- ---------

22 Dustin 7 45 22 101 10-OCT-98

64 Horatio 7 35 64 101 09-MAY-983.

3. Find all sailors with rating above 7

SQL> select SNAME from sailors where rating>7;

SNAME

---------------

Lubber

Andy

Rusty

Zorba

Horatio

4. 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

---------------

Dustin

Lubber

Horatio

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

SQL> select s.sname 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

---------------

Horatio

Dustin

Dustin

Lubber

Lubber

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

SQL> select s.sname from sailors s,reserves r,boats b where s.sid=r.sid and r.bid=b.bid and (b.color='Red' or b.color='Green');

SNAME

---------------

Dustin

Dustin

Dustin

Lubber

Lubber

Lubber

Horatio

Horatio

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

SQL> select b.color from sailors s,reserves r,boats b where s.sid=r.sid and r.bid=b.bid and s.sname='Lubber';

COLOR

----------

Red

Green

Red

8.Find the names of sailors who have reserved both red and green boats

SQL> select s.sname from sailors s,boats b,reserves r where s.sid=r.sid and r.Bid=b.bid and b.color='Red' intersect select s.sname from sailors s,boats b,reserves r where s.sid=r.sid and r.Bid=b.bid and b.color='Green';

SNAME

---------------

Dustin

Horatio

Lubber