Assignment 4

SAILOR

SID	SNAME	MNAME	SURNAME	RATING	AGE
s22	Fredrico		Roberts	7	45
s31	Lubber		Sheen	8	55.5
s32	Charlotte		Gordin	8	25.5
s58	Mary	Beth	Lyon	10	35
s64	Horatio		Powell	7	35.4
s71	Zorba		Alex	10	16
s29	Brutus		Slater	1	33.8
s95	Deep	Graceb	Davis	3	63.5
s74	Horatio		Forrest	9	35
s85	Sara	Art	Powell	3	25.5
s80	Deep	Kumar	Kumar	6	17
s87	Deep	Kumar	Jha	8	51

BOAT

BID	BNAME	COLOR
b11	Interlake	blue
b12	Interlake	red
b13	Clipper	green
b14	Marine	red

Reserve

SID	BID	R_DAY
S22	b11	10-OCT-98
S22	b13	10-AUG98
S22	b12	10-OCT-98
S22	b14	10-JUL-98
S31	b12	11-OCT-98
S31	b12	11-JUN-98
S31	b14	11-DEC-98
S64	b11	09-MAY-98
S64	b12	09-AUG-98
S74	b13	09-AUG-98
S80	b12	07-JUL-98
S87	b11	08-JUL-98
S87	b12	12-DEC-98

1) Find sid of sailors who have reserved boat 'b14'

Query:

select sid from reserve where bid='b14';

Output:

SQL Worksheet

```
35  --foreign key(sid)references sailor(sid),
36  --bid varchar2(10),
37  --foreign key(bid)references boat(bid),
38  --r_day varchar2(10)
39  --);
40
41  --insert into reserve(sid,bid,r_day)values('s22','b11','10-OCT-98');
42  --insert into reserve(sid,bid,r_day)values('s22','b13','10-AUG-98');
43  --insert into reserve(sid,bid,r_day)values('s22','b12','10-OCT-98');
44  --insert into reserve(sid,bid,r_day)values('s22','b14','10-JUL-9');
45  --insert into reserve(sid,bid,r_day)values('s31','b12','11-OCT-98');
46  --insert into reserve(sid,bid,r_day)values('s31','b12','11-JUN-98');
47  --insert into reserve(sid,bid,r_day)values('s31','b14','11-DEC-9');
48  --insert into reserve(sid,bid,r_day)values('s64','b11','09-MAY-9');
49  --insert into reserve(sid,bid,r_day)values('s64','b12','09-AUG-98');
50  --insert into reserve(sid,bid,r_day)values('s74','b13','09-AUG-98');
51  --insert into reserve(sid,bid,r_day)values('s80','b12','07-JUL-98');
52  --insert into reserve(sid,bid,r_day)values('s87','b11','08-JUL-98');
53  --insert into reserve(sid,bid,r_day)values('s87','b12','12-DEC-98');
54
55  select sid from reserve where bid='b14';
```

SID
s22
s31

Download CSV
2 rows selected.

2) Select names of the sailor for whom rating is present.

Query:

select sname, mname, surname from sailor

Output:

SQL Worksheet

```
48    --insert into reserve(sid,bid,r_day)values('s64','b11','09-MAY-9');
49  --insert into reserve(sid,bid,r_day)values('s64','b12','09-AUG-98');
50  --insert into reserve(sid,bid,r_day)values('s74','b13','09-AUG-98');
51  --insert into reserve(sid,bid,r_day)values('s80','b12','07-JUL-98');
52  --insert into reserve(sid,bid,r_day)values('s87','b11','08-JUL-98');
53  --insert into reserve(sid,bid,r_day)values('s87','b12','12-DEC-98');
54
55  --select sid from reserve where bid='b14';
56
57  select sname, mname, surname from sailor
```

SNAME	MNAME	SURNAME
Fredrico	-	Roberts
Lubber	-	Sheen
Charlotte	-	Gordin
Mary	Beth	Lyon
Horatio	-	Powell
Zorba	-	Alex
Brutus	-	Slater
Deep	Graceb	Davis
Horatio	-	Forrest
Sara	Art	Powell
Deep	Kumar	Kumar
Deep	Kumar	Jha

Download CSV
12 rows selected.

3) Select names for rating absent.

Query:

Name – Suvodeep Das   Section - B   Roll - 90

select sname, mname, surname from sailor where rating='';

Output:

SQL Worksheet

```
50    --insert into reserve(sid,bid,r_day)values('s74','b13','09-AUG-98');
51    --insert into reserve(sid,bid,r_day)values('s80','b12','07-JUL-98');
52    --insert into reserve(sid,bid,r_day)values('s87','b11','08-JUL-98');
53    --insert into reserve(sid,bid,r_day)values('s87','b12','12-DEC-98');
54
55    --select sid from reserve where bid='b14';
56
57    --select sname, mname, surname from sailor
58
59    select sname, mname, surname from sailor where rating='';
```

no data found

4) Find color of boats reserved by Lubber.

Query:

select distinct color from boat,sailor,reserve
where sailor.sid=reserve.sid AND boat.bid=reserve.bid AND sailor.sname='Lubber';

Output:

SQL Worksheet

```
53    --insert into reserve(sid,bid,r_day)values('s87','b12','12-DEC-98');
54
55    --select sid from reserve where bid='b14';
56
57    --select sname, mname, surname from sailor
58
59    --select sname, mname, surname from sailor where rating='';
60
61    select distinct color from boat,sailor,reserve
62    where sailor.sid=reserve.sid AND boat.bid=reserve.bid AND sailor.sname='Lubber';
```

COLOR
red

Download CSV

5) Find a sailor name that have reserved at least one boat.

Query:

select distinct sname,mname,surname from sailor,boat,reserve
where boat.bid=reserve.bid AND reserve.sid=sailor.sid
Output:

SQL Worksheet

```
57   --select sname, mname, surname from sailor
58
59   --select sname, mname, surname from sailor where rating='';
60
61   --select distinct color from boat,sailor,reserve
62   --where sailor.sid=reserve.sid AND boat.bid=reserve.bid AND sailor.sname='Lubber';
63
64   select distinct sname,mname,surname from sailor,boat,reserve
65   where boat.bid=reserve.bid AND reserve.sid=sailor.sid
```

SNAME	MNAME	SURNAME
Deep	Kumar	Kumar
Deep	Kumar	Jha
Horatio	-	Powell
Horatio	-	Forrest
Fredrico	-	Roberts
Lubber	-	Sheen

Download CSV
6 rows selected.

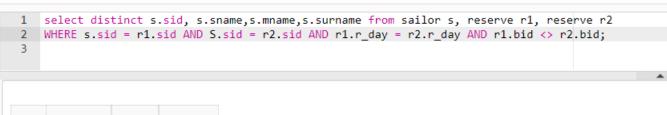6) Find the ids and names of sailors who have reserved two different boats on the same day.

Query:

select distinct s.sid, s.sname,s.mname,s.surname from sailor s, reserve r1, reserve r2

WHERE s.sid = r1.sid AND S.sid = r2.sid AND r1.r_day = r2.r_day AND r1.bid <> r2.bid;

Output:

SQL Worksheet

```
1   select distinct s.sid, s.sname,s.mname,s.surname from sailor s, reserve r1, reserve r2
2   WHERE s.sid = r1.sid AND S.sid = r2.sid AND r1.r_day = r2.r_day AND r1.bid <> r2.bid;
3
```

SID	SNAME	MNAME	SURNAME
s22	Fredrico	-	Roberts

Download CSV