BOATS DB QUERIES WITH ANSWER.

--PRITHIVIRAJ S

--Create 3 tables sailors, boats and reserves

create table xx\_sailors\_25

(

sid int,

sname varchar(20),

rating int,

age int,

constraint pk\_sid\_25 primary key(sid)

);

select \* from xx\_sailors\_25;

create table xx\_boats\_25

(

bid int ,

bname varchar(20),

color varchar(20),

constraint pk\_bid\_25 primary key(bid)

);

select \* from xx\_boats\_25;

create table xx\_reserves\_25

(

sid int,

bid int,

day date,

constraint fk\_sid\_25 foreign key(sid) references xx\_sailors\_25(sid),

constraint fk\_bid\_25 foreign key(bid) references xx\_boats\_25(bid)

)

select \* from xx\_reserves\_25;

insert into xx\_sailors\_25 values(22,'dustin',7,45)

insert into xx\_sailors\_25 values(29,'brutus',1,39)

insert into xx\_sailors\_25 values(31,'lubber',9,55)

insert into xx\_sailors\_25 values(32,'andy',8,25)

insert into xx\_sailors\_25 values(58,'Rusty',10,35)

insert into xx\_boats\_25 values(101,'interlake','blue')

insert into xx\_boats\_25 values(102,'interlake','red')

insert into xx\_boats\_25 values(103,'clipper','green')

insert into xx\_boats\_25 values(104,'marine','red')

insert into xx\_reserves\_25 values(22,101,'1/1/2004')

insert into xx\_reserves\_25 values(22,102,'1/1/2004')

insert into xx\_reserves\_25 values(22,103,'1/2/2004')

insert into xx\_reserves\_25 values(31,103,'5/5/2005')

insert into xx\_reserves\_25 values(32,104,'7/4/2005')

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QUESTIONS

--1)Write a query to find the name of the sailors who reserved red boat

--ans

SELECT SNAME

FROM XX\_SAILORS\_25 SA

JOIN XX\_RESERVES\_25 RE ON RE.SID=SA.SID

JOIN XX\_BOATS\_25 B ON B.BID=RE.BID

WHERE B.COLOR='red'

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--2) Write a query to find the names of sailors who have reserved a red and a

--green boat.

--ANS

SELECT SNAME

FROM XX\_SAILORS\_25 SA

JOIN XX\_RESERVES\_25 RE ON RE.SID=SA.SID

JOIN XX\_BOATS\_25 B ON B.BID=RE.BID

WHERE B.COLOR='red' OR B.COLOR='green'

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--3) Write a query to find the name of sailor who reserved 1 boat

--ANS

--SELECT SNAME,SA.SID

--FROM XX\_SAILORS\_25 SA

--JOIN XX\_RESERVES\_25 RE ON RE.SID=SA.SID

--WHERE SA.SID

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--4) Write a query to find the sids of all sailors who have reserved red boats

--but not green boats.

--ANS

SELECT SA.SID

FROM XX\_SAILORS\_25 SA

JOIN XX\_RESERVES\_25 RE ON RE.SID=SA.SID

JOIN XX\_BOATS\_25 B ON B.BID=RE.BID

WHERE B.COLOR='red'

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--5) Write a query to find the sailors with the highest rating

--ANS

SELECT \*

FROM XX\_SAILORS\_25

WHERE RATING =(SELECT MAX(RATING)FROM XX\_SAILORS\_25)

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--6) Write a query to find the number of sailors elligible to vote

--ANS

SELECT COUNT(SNAME) SAILORSELIGIBLETOVOTE

FROM XX\_SAILORS\_25

WHERE AGE>=18

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--7) Write a query to count different sailors name

--ANS

SELECT COUNT(SNAME) DIFFSAILORNAME

FROM XX\_SAILORS\_25

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--8) Write a query to find the oldest sailor

--ANS

SELECT \*

FROM XX\_SAILORS\_25

WHERE AGE=(SELECT MAX(AGE) FROM XX\_SAILORS\_25)

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--9)Write a query to find name as SAILERNAME,Rating,Age,bname as BOATNAME,Color,Day.

--ANS

SELECT SA.SNAME AS SAILERNAME,SA.RATING,SA.AGE,B.BNAME AS BOATNAME,B.COLOR,RE.DAY

FROM XX\_SAILORS\_25 SA

JOIN XX\_RESERVES\_25 RE ON RE.SID=SA.SID

JOIN XX\_BOATS\_25 B ON B.BID=RE.BID

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--10)Write a query to display the sailor name starts with letter a and b.

--ANS

SELECT SNAME FROM XX\_SAILORS\_25

WHERE SNAME LIKE 'a%' OR SNAME LIKE 'b%'

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--11)Find the names of the Sailors who have reserved at least one boat.

--ANS

SELECT SNAME

FROM XX\_SAILORS\_25 SA

join XX\_RESERVES\_25 RE ON SA.SID=RE.SID

GROUP BY SA.SNAME

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--12)Compute increments for the ratings of persons who have sailed two different boats on the same day.

--ans

--SELECT SA.SNAME,SA.RATING,B.BNAME,RE.DAY

--FROM XX\_SAILORS\_25 SA

--JOIN XX\_RESERVES\_25 RE ON RE.SID=SA.SID

--JOIN XX\_BOATS\_25 B ON B.BID=RE.BID

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--13)Find the ages of sailors whose name begins and ends with B and has at least 3 characters.

--ANS

SELECT AGE FROM XX\_SAILORS\_25 SA WHERE SA.SNAME LIKE 'b%' AND SA.SNAME LIKE'%b' AND LENGTH(SNAME)>3

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