executed

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Duration: 1 hour
Marks: 25 Marks
General Instructions:
Viva will be taken at the time of practical as well as after the practical if required.
The figures to the right indicate full marks.
If you are using any additional information, state it clearly.
Once you finish with the code show it to the examiner for testing. Write your answer in Word file and upload it on Moodle.

Q. 1	A)	Consider the reservation database given below. The primary keys are underlined and the data types are specified:
		
		Sailor (<u>Sname: varchar(50)</u> , s_rating: number(10))
		Boat (<u>bname:varchar(50)</u> , color:varchar(20), b_rating:number:number(10))
		Reservation (<u>sname:varchar(50), bname:varchar(50),</u> weekday:varchar(50))
		    a) Create the above tables by properly specifying the primary keys and the foreign keys and named constraints.
		    b) Enter atleast five tuples for each relation.
		    c) Because of technical problems Boat name Bay is not participating in Reservation database. Write a SQL query to reflect this change.
		    d)List all boats reserved on Monday and their color.
		    e) Write a SQL query to change the length of "color" column to 30.
			10

	B)	Write a PL/SQL function to find out number of sailors whose names start with 'A'.	10
	C)	List the sailor with highest rating.	5

Q1. a] create database Sailor_60;

use Sailor60;

create table sailor(sname varchar(50) primary key, s_rating int);

create table boat (bname varchar(50) primary key, color varchar(20), b_rating int);

create table reservation (sname varchar(50), bname varchar(50), week day varchar(50), foreign key (sname) references boat (bname));

b] insert into sailor values ('Ayush',1), ('sailor1', 1), ('sailor2',2), ('sailor3',3), ('sailor4',4), ('sailor5',5);

insert into boat values ('Bay', 'color1',1), ('boat1', 'color1',1), ('boat2','color2',2),('boat3','color3',3), ('boat4','color4',4), ('boat5', 'color5',5);

insert into reservation values ('sailor1','boat1','day1'), ('sailor2','boat2', 'day2'), ('sailor3', 'boat3', 'day3'), ('sailor4','boat4', 'day4'), ('sailor5','boat5','day5'), ('Ayush', 'Bay', 'day6');

c) update reservation set weekday = 'cancelled' where bname = 'Bay';

d) select * from reservations where weekday = 'day1';

e) alter table boat modify column color varchar (30);

Q2) select initalName ('A');
   -- Function's code --

    Create Function 'inital name' (inital varchar (30))
    Returns integer
    Begin
       Declare tatal int;
       Select count(Sname) from sailor where Sname like 'A%' into tatal;
    return tatal;
    End

Q3) select * from sailor where s-rating = (select max (s-rating) from sailor);