executed

Duration: 1 hour

Marks: 25 Marks

General Instructions:

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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>,wekkday: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) Write SQL query to create a view of Sailor table where rating is 10.
		    d) Write SQL query to find boat details and Sailor details using join.
		    e) Create Primary Index on Boat's name.
			10

	B)	Write PL/SQL trigger that raises an exception when number of Sailor's are greater than 5.	10
	C)	Write PL/SQL code to show all the constraints defined on Sailor relation.	5

create database reservation;

use reservation;

a) Create table sailor (
Sname varchar (50) Primary key,
S_rating decimal (10,2));

Create table boat (
bname varchar (50) Primary key,
colar varchar (20),
b_rating decimal (10,2));

create table reservation (
Sname varchar (50),
bname varchar (50),
Wekday varchar (50),
foreign key (sname) references
sailor (sname),
foreign key (bname) references
boat (bname));

b) insert into sailor values ('Sam', 9);
('Pam', 10),
('Jay', 7),
('Jon', 3),
('tom' 6);

insert into boat values
('Seaking', 'gold', 9),
('seagiant', 'green', 8),
('posiedon', 'white', 10),
('waterbird', 'yeloow', 6),
('Jellyfish', 'pink', 3);

insert into reservation values
('Sam', 'Seaking', 'Sunday'),
('Ran', 'Seagiant', 'Monday'),
('Jay', 'posiedon', 'tuesday'),
('Jon', 'waterbird', 'Wednusday'),
('tom', 'Jellyfish', 'friday')};

c) Select sname from sailor where
S_rating = 10;

d) Select a.sname, a.s_rating from
Sailor a join
reservation b where a.sname =
(Select b.sname from reservation where
b.bname = (Select c.bname from boat c
where b.bname = c.bname));

B] Create trigger ~~before~~ Sailor_before_Insert
Create trigger 'sailor_before_Insert'
Before Insert on 'sailor' for each row begin
declare errormsg varchar(250);
set errormsg ~~varchar~~ = " the no of
sailor is greater ";
if ((select count (new.sname) from sailor)>=5)
then
signal sqlstate '45000' set
message_text = errormsg;
end if }