Executed

Ankita shejal

UCID: 2023510052

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) Write SQL query to display Sailor details where weekday is Monday.
		    d) Write SQL query to total number of boats of weekday Wednesday.
		    e) Write SQL query to truncate all the relations.
			10

	B)	Write PL/SQL procedure to find out number of sailors whose names start with 'W'.	10
	C)	Write PL/SQL trigger that raises an exception when newly inserted boat color is gray, else insert details in Boat relation.	5

GRANT USER 'localhost' 'Password'

Q.A)

a) 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
(weekday varchar(50), sname varchar(50), bname
varchar(50), foreign key (sname) references sailor(sname),
foreign key (bname) references Boat(Bname);

b) insert into sailor values
('ankita', 1),
('ani', 2),
('john', 3),
('xyz', 4),
('aditi', 5);

insert into Boat values
('abc', 'red', 10), ('lily','yellow',10), ('xyz','blue',10),

```sql
('lion', 'green', 10),
('Titanic', 'white', 10);

insert into Reservation values
('Monday', 'ankita', 'abc'),
('Tuesday', 'ani', 'lily'), ('Wednesday', 'john', 'xyz'),
('Thursday', 'xyz', 'lion'), ('Friday', 'aditi', 'Titanic');
```

c)
```sql
Select *
from sailor s
JOIN Reservation r
ON s.sname = r.sname
where r.weekday = 'Monday';
```

d)
```sql
Select Count(*)
AS total_number
FROM Reservation
where weekday = 'Wednesday';
```

e)
```sql
Truncate table Reservation;
Truncate table Sailor;
Truncate table Boat;
```

② .B)
```sql
CREATE DEFINER='root'@localhost PROCEDURE 'new_procedure'()
BEGIN
    SELECT COUNT(*)
    from sailor
    where sname like 'W%';
END
```

② .C)
```sql
BEFORE INSERT ON 'Boat'
BEGIN
    IF each new.color = 'gray' then
    signal sqlstate '45000' set message_text = 'Boat color
    cannot be gray';
    end if;
END
```