



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
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*P. executed*  
*He*

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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:<br><br>Sailor ( <u>Sname</u> : varchar(50), s_rating: number(10))<br>Boat ( <u>bname</u> : varchar(50), color: varchar(20), b_rating: number(10))<br>Reservation ( <u>sname</u> : varchar(50), <u>bname</u> : varchar(50), weekday: varchar(50))<br>a) Create the above tables by properly specifying the primary keys and the foreign keys and named constraints.<br>b) Enter atleast five tuples for each relation.<br>c) Write SQL query to give grant all permission to RMAN user on Reservation relation.<br>d) Write a SQL query to change b_rating to 5 whose boat color is Black. | 10 |
| B)     | Write a PL/SQL procedure to calculate total number of boats reserved on Monday.  | 10 |
| C)     | Write a PL/SQL code to display all the details of Reservation table using Cursor.  | 5  |

Q1 A] create database reservations;

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 (sname varchar(50), bname varchar(50), weekday varchar(50), foreign key (sname) references Sailor (sname), foreign key (bname) references Boat (bname));

b) → insert into sailor values ("Nidhi", 8), ("Ankita", 6), ("Aditi", 7), ("Atharva", 7), ("Shoyab", 5);

→ insert into Boat values ("Boat1", "Black", 5), ("Boat2", "Blue", 7), ("Boat3", "Red", 8);



("Boat4", "Orange", 5), ("Boat5", "Black", 4);

→ insert into reservation values ("Nidhi", "Boat1", "Monday",

("Ankita", "Boat2", "Tuesday"),

("Aditi", "Boat3", "Wednesday"),

("Atharva", "Boat4", "Thursday");

("Shoyab", "Boat5", "Friday");

c) → create user 'RMAN' identified by 'root';

→ grant all privileges on reservations.reservation  
to 'RMAN'

d) → update Boat set b\_rating = 5 where color = "Black";

Q.B] PL/SQL procedure

```
CREATE DEFINER = 'root'@'localhost' PROCEDURE  
    'calculate_tot_number'()
```

```
BEGIN
```

```
select count (b.bname) from Boat b where
```

```
b.bname in (select r.bname from reservation r  
    where weekday = "Monday");
```

```
END
```