

# I SEMESTER MCA END SEM LAB EXAM DATABASE MANAGEMENT SYSTEM LAB (MCA 4161)

Batch: B3

Date: 19-01-2022

Marks:40

Duration: 2 hours

Note: Data for all the three tables are given, these data should be inserted.

Create the following tables with constraints.

## PATIENT

2+2

| Column            | DataType | Constraints                      |
|-------------------|----------|----------------------------------|
| IP_No             | Number   | Primary Key                      |
| PName             | Varchar2 |                                  |
| Date_Of_Birth     | Date     |                                  |
| Date_of_Adm       | Date     |                                  |
| Date_of_Discharge | Date     | Date_of_Discharge>=Date_of_Adm   |
| Ward              | Varchar2 | Foreign key references Admission |
| Gender            | Char     | 'M' or 'F'                       |
| Doctid            | Varchar2 | Foreign Key references Doctor    |

## ADMISSION

2+2

| Column       | DataType | Constraints |
|--------------|----------|-------------|
| Ward         | Varchar2 | Primary Key |
| Rent_per_day | Number   |             |
| Other_exp    | Number   |             |
| Room_avail   | Number   |             |
| Status       | Char     | "A" or "NA" |

## DOCTOR

2+2

| Column     | DataType | Constraints                 |
|------------|----------|-----------------------------|
| DocId      | Varchar2 | Primary Key , Starts with D |
| DName      | Varchar2 |                             |
| ConFees    | Number   | >=300 and <=1000            |
| Department | Varchar2 | 'Ortho','OBG','Surgery'     |

1. Insert records into the tables. 3+3
2. Queries:
  - a. Display the name and age of all **female** patients. 1+1
  - b. Display the patient name, ward and name of doctors treating the patient for more than **1 week** 2+2
  - c. Display the name of the patients who are treated by the doctor having consultation fees greater than the maximum consultation fees of the doctor in the **Surgery** department. 2+2
3. Write a **trigger** that will be executed when a record is deleted from the Patient table. 6+6
  - a) Patient's Bill amount must be calculated and displayed.
  - b) Count of corresponding ward the patient had occupied should be incremented.

c) If the status of the ward was NA, now it has to be changed to A

#### PATIENT

| IP_No | PName   | DOB        | DOA        | DOD        | Ward        | Gender | DocId |
|-------|---------|------------|------------|------------|-------------|--------|-------|
| 11001 | Ravi    | 12/11/1980 | 12/10/2018 | 21/10/2018 | General     | M      | D001  |
| 11002 | Manohar | 09/12/1977 | 11/11/2018 | 14/11/2018 | SemiPrivate | M      | D002  |
| 11003 | Seema   | 02/03/1965 | 02/11/2018 | 10/11/2018 | General     | F      | D003  |
| 11004 | Anju    | 03/04/1988 | 30/10/2018 | 01/11/2018 | SemiSpecial | F      | D005  |
| 11005 | Shekhar | 14/11/2000 | 21/10/2018 | 30/10/2018 | Special     | M      | D002  |
| 11006 | Neena   | 13/10/1976 | 03/11/2018 | 05/10/2018 | General     | F      | D003  |

#### ADMISSION

| Ward        | Rentperday | Other_exp | Room_avail | status |
|-------------|------------|-----------|------------|--------|
| General     | 300        | 0         | 0          | NA     |
| SemiPrivate | 600        | 100       | 2          | A      |
| SemiSpecial | 1200       | 200       | 0          | NA     |
| Special     | 2400       | 500       | 5          | A      |

#### DOCTOR

| DocId | DName     | Con_Fees | Department |
|-------|-----------|----------|------------|
| D001  | Avinash   | 800      | Ortho      |
| D002  | Thomas    | 650      | Surgery    |
| D003  | Shyamala  | 750      | OBG        |
| D004  | Madhura   | 450      | Surgery    |
| D005  | Avanthika | 650      | OBG        |
| D007  | Murali    | 700      | Surgery    |