

LAB 2

Consider the tables given below:

| DOCTOR | | |
|------------------|--------------|---|
| DID | INT | Primary key |
| DNAME | VARCHAR(25) | |
| SPECIALIZATION | VARCHAR(20) | Default 'general' |
| AADHAR_NO | VARCHAR(12) | unique |
| CONSULTATION_FEE | NUMERIC(5,2) | Constraint C1 Check (Consultation_fee > 50) |
| CITY | VARCHAR(20) | |

| TREATMENT | | |
|------------|-------------|---|
| DID | INT | references doctor (DID) on delete cascade |
| PID | INT | references patient (PID) on delete set null |
| DIAGNOSIS | VARCHAR(30) | Not null |
| TREAT_ID | INT | |
| TREAT_DATE | DATE | |

| PATIENT | | |
|---------------|-------------|-------------|
| PID | INT | Primary key |
| PNAME | VARCHAR(25) | |
| DATE_OF_BIRTH | DATE | |
| ADDRESS | VARCHAR(20) | |

- Create the tables as per the instructions given and insert suitable data.
- Add a column called SPECIAL_FEE with datatype NUMERIC(5,2) to DOCTOR table
- Add a check constraint to show that SPECIAL_FEE > CONSULTATION_FEE
- Using alter command, Drop the constraint C1.
- Add a column AADHAR_NUMBER to patient table with UNIQUE constraint.
- Add NOT NULL constraint to the DATE_OF_BIRTH column of PATIENT table.
- Add constraint CON1 UNIQUE(TREAT_ID, TREAT_DATE) in table TREATMENT
- Insert suitable data to the table TREATMENT.
- Delete a doctor from DOCTOR table to see the cascade result.
- Display the name of the doctors whose consultation fees are even.
- Find the doctors whose name starts with 'K' and ends with 'n'
- Find the patients whose name starts with 'A' and is followed by 2 characters only.

- m. Find the doctors whose name starts with 'J' or 'L'
- n. Find the doctors whose specialization is 'E.N.T' and consultation fee is more than 60
- o. Find the doctors whose consultation fee is between 50 and 100
- p. Arrange the doctors in the descending order of name as well as city.
- q. List the specialization of doctors without duplicate values.
- r. Find the total number of doctors.
- s. Find the number of doctors with 'E.N.T' specialization.
- t. Find the number of patients who were treated by a doctor with ID = 1;
- u. Find the doctors specialized in 'E.N.T', 'Cardiac', 'Paediatrics' (Use IN)
- v. Find the average consultation fee, maximum consultation fee and minimum consultation fee of doctors.
- w. Find the sum of special fee of doctors with 'Paediatrics' specialization.
- x. Display the name of doctors under a column with heading 'DOCTOR_NAME' instead of DNAME which is the name of your column.
- y. Display the total fee i.e. special fee + consultation fee, for each doctor. (Use heading 'TOTAL_FEE')
- z. Find the number of doctors with no adhar number given. (i.e. is null).
- aa. Find the number of doctors with adhar number given. (i.e. is not null)
- bb. Find the doctors whose CONSULTATION FEE is greater than 100 and SPECIALIZATION is Cardiac or coming from Kollam.
- cc. Find the result of the query: select * from doctor order by 3;
- dd. Concatenate the name of the doctor with the specialization he/she is having. (e.g. Reghu is specialized in E.N.T.)