

Create the following tables for HMS(Hospital Management System):

The Doctor_master table contains information about doctors in the hospital.

DOCTOR_MASTER(doctor_id,doctor_name,dept)

Column Name	Data type & Data	Description
	size	
doctor_id	Varchar(15)	doctorid must be unique and not null
doctor_name	Varchar2(15)	Doctor name should be not null
Dept	Varchar2(15)	Dept name should be not null

Sample Data:

doctor_id	doctor_name	dept
D0001	Ram	ENT
D0002	Rajan	ENT
D0003	Smita	Eye
D0004	Bhavan	Surgery
D0005	Sheela	Surgery
D0006	Nethra	Surgery

The room_master table contains information about room availability in the hospital.

ROOM_MASTER(room_no, room_type, status)

Column Name	Data type & Data	Description
	size	
room_no	Varchar(15)	roomno must be unique and not null
room_type	Varchar2(15)	room type name should be not null
status	Varchar2(15)	status name should be not null

Sample Data:

room_no	room_type	status
R0001	AC	occupied
R0002	Suite	vacant
R0003	NonAC	vacant
R0004	NonAC	occupied
R0005	AC	vacant
R0006	AC	occupied

The patient_master table contains information about patients in the hospital.

PATIENT_MASTER(pid, name,age,weight,gender,address,phoneno,disease,doctorid)

Column Name	Data type & Data	Description
	size	
pid	Varchar(15)	pid must be unique and not null
name	Varchar2(15)	name should be not null
age	number(15)	age should be not null
Weight	number(15)	weight should be not null
Gender	Varchar(10)	gender should be not null
Address	Varchar(50)	address should be not null
phoneno	varchar(10)	phoneno should be not null
Disease	Varchar(50)	disease should be not null
Doctor_id	Varchar(5)	Must be an existing doctor

Sample Data:

pid	name	age	weight	gender	address	phoneno	disease	Doctor_id
P0001	Gita	35	65	F	Chennai	9867145678	Eye	D0003
							Infection	
P0002	Ashish	40	70	М	Delhi	9845675678	Asthma	D0003
P0003	Radha	25	60	F	Chennai	9867166678	Pain in	D0005

							heart	
P0004	Chandra	28	55	F	Bangalore	9978675567	Asthma	D0001
P0005	Goyal	42	65	M	Delhi	8967533223	Pain in Stomach	D0004

The room_allocation table contains information about the allocation of room to the patients in the hospital.

ROOM_ALLOCATION(room_no, pid, admission_date,release_date)

Column Name	Data type & Data	Description	
	size		
room_no	Varchar(15)	Must be an existing rooms	
pid	Varchar2(15)	Must be an existing patients	
admission_date	date	Admission date should be not null	
Release_date	date		

Sample Data:

room_no	pid	admission_date	Release_date
R0001	P0001	15-oct-16	26-oct-16
R0002	P0002	15-nov-16	26-nov-16
R0002	P0003	01-dec-16	30-dec-16
R0004	P0001	01-jan-17	30-jan-17

NOTE:

You are supposed to fill in the given records in DOCTOR_MASTER, ROOM_MASTER, PATIENT_MASTER and ROOM_ALLOCATION tables following these rules:

- 1. Identify the primary key and foreign key (if applicable) in each table.
- 2. Take care of the constraints and the relationships among the tables.

QUERIES

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Query #1: Display the patients who were admitted in the month of january.
Query #2: Display the female patient who is not suffering from ashma
Query #3: Count the number of male and female patients.
Query #4: Display the patient id, patient name, doctor id, doctor name, room no,
room type and admission date.
Query #5: Display the room no which was never allocated to any patient.
Query #6: Display the room_no, room_type which are allocated more than once.
create table DOCTOR_MASTER(
doctor_id varchar(15) primary key,
doctor name varchar(15) not null,
Dept varchar(15) not null,
unique(doctor_name)
);
insert into DOCTOR MASTER(doctor id,doctor name,dept) values('D0001','Ram','ENT');
insert into DOCTOR_MASTER(doctor_id,doctor_name,dept) values('D0002','Rajan','ENT');
insert into DOCTOR MASTER(doctor id,doctor name,dept) values('D0003','Smita','Eye');
insert into DOCTOR MASTER(doctor id,doctor name,dept) values('D0004','Bhavan','Surgery');
insert into DOCTOR_MASTER(doctor_id,doctor_name,dept) values('D0005','Sheela','Sugery');
insert into DOCTOR MASTER(doctor id,doctor name,dept) values('D0006','Nethra','Surgery');
SELECT* from DOCTOR MASTER;
create table ROOM MASTER(
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room_no varchar(15) primary key,
  room_type varchar(15) not null,
  status varchar(15) not null,
  unique(room_no)
 );
insert into ROOM MASTER(room no,room type,status) VALUES ('R0001','AC','occupied');
insert into ROOM_MASTER(room_no,room_type,status) VALUES ('R0002','Suite','vacant');
insert into ROOM_MASTER(room_no,room_type,status) VALUES ('R0003','NonAC','vacant');
insert into ROOM MASTER(room no,room type,status) VALUES ('R0004','NonAC','occupied');
insert into ROOM MASTER(room no,room type,status) VALUES ('R0005','AC','vacant');
insert into ROOM_MASTER(room_no,room_type,status) VALUES ('R0006','AC','occupied');
SELECT* from ROOM MASTER;
create table PATIENT MASTER (
pid varchar(15) not null,
name varchar(15) not null,
age varchar(15) not null,
Weight varchar(15) not null,
Gender varchar(10) not null,
Address varchar(10) not null,
phoneno varchar(10) not null,
Disease varchar(50) not null,
doctor id varchar(5) REFERENCES DOCTOR MASTER(doctor id)
);
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```
insert into PATIENT MASTER VALUES('P0001','Gita',35,65,'F','Chennai',9867145678,'Eye
Infection','D0003');
insert into PATIENT MASTER
VALUES('P0002','Ashish',40,70,'M','Delhi',9845675678,'Asthma','D0003');
insert into PATIENT MASTER VALUES('P0003', 'Radha', 25, 60, 'F', 'Chennai', 9867166678, 'Pain in
heart','D0005');
insert into PATIENT MASTER
VALUES('P0004','Chandra',28,55,'F','Bangalore',9978675567,'Asthma','D0001');
insert into PATIENT MASTER VALUES('P0005','Goyal',42,65,'M','Delhi',8967533223,'Pain in
Stomach', 'D0004');
SELECT * FROM PATIENT MASTER;
Create table ROOM ALLOCATION(
room_no varchar(15) REFERENCES ROOM_MASTER(room_no),
pid varchar(15) REFERENCES PATIENT MASTER(pid),
admission date date not null,
realease_date date
);
insert into ROOM ALLOCATION VALUES('R0001','P0001','2016-10-15','2016-10-26');
insert into ROOM ALLOCATION VALUES('R0002','P0002','2016-11-15','2016-11-26');
insert into ROOM ALLOCATION VALUES('R0002','P0003','2016-12-16','2016-12-30');
insert into ROOM ALLOCATION VALUES('R0004','P0001','2017-01-01','2017-01-30');
select * from ROOM ALLOCATION;
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#1st query
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select PATIENT MASTER.name from PATIENT MASTER inner join ROOM ALLOCATION on
PATIENT_MASTER.pid=ROOM_ALLOCATION.pid where admission_date= '2017-01-01';
#2nd query
select name from PATIENT MASTER where Gender='F' and Disease!='Asthma';
#3rd query
select count(*) from PATIENT_MASTER where Gender IN ('M','F');
#4th query
select
PATIENT MASTER.pid, PATIENT MASTER.name, DOCTOR MASTER.doctor id,
ROOM MASTER.room no,ROOM MASTER.room type,ROOM ALLOCATION.admission date
from PATIENT MASTER, DOCTOR MASTER, ROOM MASTER, ROOM ALLOCATION where
PATIENT_MASTER.pid=ROOM_ALLOCATION.pid
and ROOM_ALLOCATION.room_no=ROOM_MASTER.room_no
and DOCTOR MASTER.doctor id=PATIENT MASTER.doctor id;
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select PATIENT MASTER.pid,PATIENT MASTER.name,DOCTOR MASTER.doctor id,

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ROOM_MASTER.room_no,ROOM_MASTER.room_type,ROOM_ALLOCATION.admission_date
from PATIENT_MASTER inner join DOCTOR_MASTER on
DOCTOR_MASTER.doctor_id=PATIENT_MASTER.doctor_id
inner join ROOM_ALLOCATION on PATIENT_MASTER.pid=ROOM_ALLOCATION.pid
inner join ROOM_MASTER on ROOM_MASTER.room_no=ROOM_ALLOCATION.room_no;

#5th query
select room_no from ROOM_MASTER where status='vacant';
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select room_no,room_type from ROOM_MASTER where status!='vacant';

#6th query

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