DDL FOR HOSPITAL MANAGEMENT SYSTEM

```
drop table doctor;
drop table doctor_class;
drop table doctor_conatact;
drop table hospital;
drop table medicine_store;
drop table operates;
drop table order_master;
drop table patient;
drop table qualification;
drop table room_type;
drop table staff;
drop table staff_contact;
drop table user_contact;
drop table user_master;
1.Hospital Table
create SEQUENCE hospital_id_seq start with 0001
INCREMENT BY 1 MAXVALUE 5000 NOCYCLE nocache ORDER;
CREATE TABLE hospital
(
  hospital_id VARCHAR(10),
  hospital_name VARCHAR(20),
  hospital_branch VARCHAR(20),
```

```
PRIMARY KEY(hospital_id)
);
alter table hospital modify (hospital_id varchar(30));
2.Admin Table
create SEQUENCE admin_id_seq start with 0001
 INCREMENT BY 1 MAXVALUE 5000 NOCYCLE nocache ORDER;
CREATE TABLE admin_master
(
  admin_id VARCHAR(10),
  admin_first_name VARCHAR(20),
  admin_mid_name varchar(20),
  admin_last_name varchar(20),
  admin_password VARCHAR(10),
  hospital_id REFERENCES hospital(hospital_id),
  PRIMARY KEY(admin_id)
);
alter table admin_master modify (admin_id varchar(30));
alter table admin_master modify (hospital_id varchar(30));
3.Department Table
```

create SEQUENCE dept_id_seq start with 0001

```
CREATE TABLE department_master
(
 dept_id
            VARCHAR(10),
 dept_name
                   VARCHAR(15),
 no_of_doctors
                    INT,
 no_of_operation_theater INT,
 hospital_id REFERENCES hospital(hospital_id),
 PRIMARY KEY(dept_id)
);
alter table department_master modify (dept_name varchar(30));
alter table department_master modify (doct_id varchar(30));
alter table department_master modify (hospital_id varchar(30));
4.Doctor Table
create SEQUENCE doct_id_seq start with 0001
INCREMENT BY 1 MAXVALUE 5000 NOCYCLE nocache ORDER;
CREATE TABLE doctor_master
(
 doct_id VARCHAR(10),
 doct_first_name VARCHAR(30),
 doct_mid_name varchar(30),
 doct_last_name varchar(30),
```

```
dept_id REFERENCES department_master(dept_id),
  PRIMARY KEY(doct_id)
);
alter table doctor_master modify (doct_id varchar(30));
alter table doctor_master modify (doct_id varchar(30));
5.Contact for Doctor
create table doctor_contact (
doct_id varchar(10) references doctor_master(doct_id),
doct_contact_no int
constraint cont_cons CHECK(REGEXP_LIKE(doct_contact_no,'^([1-9]{1}[0-9]{9})$'))
);
alter table doctor_contact modify (doct_id varchar(30));
 6.Qualifications for perticutlar Doctor
CREATE TABLE qualification
(
  doct_id varchar(10) REFERENCES doctor_master(doct_id),
  qualification VARCHAR(25)
);
alter table qualification modify (doct_id varchar(30));
7.Class Of Doctor
CREATE TABLE doctor_class
```

```
(
  doct_id REFERENCES doctor_master(doct_id),
  visiting_time VARCHAR2(25),
  availability VARCHAR2(25) check in ('temporary', 'full service', 'special service')),
       avail_count int,
  PRIMARY KEY(doct_id)
);
alter table doctor_class modify (doct_id varchar(30));
alter table doctor_class modify (visiting_time varchar(100));
8.User Table
create SEQUENCE user_id_seq start with 0001
INCREMENT BY 1 MAXVALUE 5000 NOCYCLE nocache ORDER;
CREATE TABLE user_master
  user_id VARCHAR(10) primary key,
  user_first_name VARCHAR(20),
  user_mid_name varchar(20),
  user_last_name varchar(20),
  user_password varchar(30) CHECK (REGEXP_LIKE(user_password,'^([a-zA-Z0-9@*#]
{7,14})$')),
  user_age INT,
  user_gender VARCHAR(2) CHECK (user_gender IN ('M','F','O')),
  user_blood_grp VARCHAR(10),
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```
user_description VARCHAR(30),
  user_city VARCHAR(30),
  user_street varchar(30),
  user_pincode int check(REGEXP_LIKE(user_pincode,'^([0-6){6}')),
  user_email varchar(50) check (REGEXP_LIKE(user_email,'^([a-zA-Z0-9_
\-\.]+)@((gmail.com)|(yahoo.com))$'))
);
alter table user_master modify (user_id varchar(30));
alter table user_master modify (user_pincode int check(REGEXP_LIKE(user_pincode,'^([0-6]
{6})$')));
ALTER TABLE user master MODIFY (user email VARCHAR(50) CHECK
(REGEXP_LIKE(user_email,'^([a-zA-Z0-9_\-\.]+)@((gmail.com)|(yahoo.com))$')));
9.Contact_no of user
create table user_contact
(
       user_id varchar(10) references user_master(user_id),
       user_contact_no int,
constraint cont1_cons CHECK(REGEXP_LIKE(user_contact_no,'^([1-9]{1}[0-9]{9})$'))
);
alter table user_contact modify (user_id varchar(30));
10.Patient Table
create SEQUENCE pt_id_seq start with 0001
INCREMENT BY 1 MAXVALUE 5000 NOCYCLE nocache ORDER;
```

```
CREATE TABLE patient_master
 pt_id VARCHAR(10) PRIMARY KEY,
 user_id REFERENCES user_master(user_id)
);
alter table patient_master modify(pt_id varchar(30));
alter table patient_master modify(user_id varchar(30));
11.Appointment Table
create SEQUENCE apt_id_seq start with 0001
INCREMENT BY 1 MAXVALUE 5000 NOCYCLE nocache ORDER;
CREATE TABLE appointment
(
 apt_id NUMBER(10),
 doct_id REFERENCES doctor_master(doct_id),
 pt_id REFERENCES patient_master(pt_id),
 apt_status VARCHAR(20),
 apt_date DATE,
 apt_time VARCHAR(10),
 PRIMARY KEY(apt_id)
);
alter table appointment modify(pt_id varchar(30));
alter table appointment modify(doct_id varchar(30));
alter table appointment modify(apt_id varchar(30));
```

alter table appointment modify(apt_status varchar(20) check(apt_status in('appointed','in progress','completed','cancelled')));

12.Staff Table

```
create sequence staff_id_seq start with 0001
increment by 1 maxvalue 5000 nocycle nocache order;
CREATE TABLE staff
(
 staff_id VARCHAR(10),
 staff first name VARCHAR(30),
 staff_last_name varchar(30),
 staff_mid_name varchar(30),
 dept_id REFERENCES department_master(dept_id),
 staff_address VARCHAR(35),
 PRIMARY KEY(staff_id)
);
alter table staff modify(staff_id varchar(30));
alter table staff modify(dept_id varchar(30));
13.Contact no.s of staff members
create table staff_contact
(
       staff_id varchar(10) references staff(staff_id),
       staff_contact_no int,
constraint cont_cons2 CHECK(REGEXP_LIKE(staff_contact_no,'^([1-9]{1}[0-9]{9})$'))
```

```
);
alter table staff_contact modify(staff_id varchar(30));
 14.Medicine Information data
create sequence med_id_seq start with 0001
maxvalue 5000 increment by 1 nocycle nocache order;
CREATE TABLE medicine_store
(
 med_id VARCHAR(10),
 med_name VARCHAR(25),
 dept_id REFERENCES department_master(dept_id),
 company_name VARCHAR(30),
 med_price NUMBER(8,3),
 med_mfd DATE,
 med_expd DATE,
 PRIMARY KEY(med_id)
);
alter table medicine_store modify(med_id varchar(30));
alter table medicine_store modify(dept_id varchar(30));
15.Order Information
create sequence order_id_seq start with 0001
maxvalue 5000 increment by 1 nocycle nocache order;
```

CREATE TABLE order_master

```
(
 order_id VARCHAR2(15),
 med_id REFERENCES medicine_store(med_id),
 user_id REFERENCES user_master(user_id),
 deli_address VARCHAR2(30),
 status
          VARCHAR2(30),
 PRIMARY KEY(order_id)
);
alter table order_master modify(med_id varchar(30));
alter table order_master modify(user_id varchar(30));
alter table order_master modify(order_id varchar(30));
16.Room and Bed Information
CREATE TABLE dept_facility
(
 room_no INT,
 dept_id REFERENCES department_master(dept_id),
 tot_bed INT,
 PRIMARY KEY(room_no)
);
alter table dept_facility modify(dept_id varchar(30));
17. Current Room and Bed Status
CREATE TABLE room_status
room_no REFERENCES dept_facility(room_no),
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room_type_ac VARCHAR(10) default ('AC'),
room_type_delux varchar(10) default ('NON-DELUX'),
 available_bed int,
constraint roomtype1cons check(room_type_ac in('AC','NON-AC')),
constraint roomtype2cons check(room_type_delux in('TV-REFRIGERATOR','NON-DELUX'))
);
18.Operation Table
create sequence op_id_seq start with 0001
maxvalue 5000 increment by 1 nocycle nocache order;
CREATE TABLE operates
(
 doct_id REFERENCES doctor_master(doct_id),
 pt_id REFERENCES patient_master(pt_id),
 op_id
           VARCHAR2(20),
 op_date
             DATE,
 op_start_time VARCHAR2(20),
 op_end_time VARCHAR2(20),
 status
           VARCHAR2(15) CHECK (status IN ('Success', 'Failed', 'In Progress')),
 PRIMARY KEY(op_id)
);
alter table operates modify(doct_id varchar(30));
alter table operates modify(pt_id varchar(30));
alter table operates modify(op_id varchar(30));
```

DML

1.Hospital

- insert into hospital(HOSPITAL_ID,HOSPITAL_NAME,hospital_branch) values
 (to_char(sysdate,'YYYYMMDD')||'HOSPITAL'||hospital_id_seq.nextval,'sterling','Bhavna gar');
- insert into hospital(HOSPITAL_ID,HOSPITAL_NAME,hospital_branch) values
 (to_char(sysdate,'YYYYMMDD')||'HOSPITAL'||hospital_id_seq.nextval,'sterling','Surat');

2.Admin

insert into admin_master
 (admin_id,ADMIN_FIRST_NAME,admin_mid_name,admin_last_name,admin_password,
 hospital_id)
 values(to_char(sysdate,'YYYYMMDD')||'ADMIN'||admin_id_seq.nextval,'Keval','Rajyag
 uru','Atulkumar','mypassword','20171101HOSPITAL2');

3.Department

 insert into department_master(dept_id,dept_name,no_of_doctors,no_of_operation_theater,hosp ital_id)

values(to_char(sysdate,'YYYYMMDD')||'DEPT'||dept_id_seq.nextval,'Dental Department',2,1,'20171101HOSPITAL2');

 insert into department_master(dept_id,dept_name,no_of_doctors,no_of_operation_theater,hosp ital_id)

values(to_char(sysdate,'YYYYMMDD')||'DEPT'||dept_id_seq.nextval,'Neuro Department',2,1,'20171101HOSPITAL2');

4.Doctor

• insert into doctor_master

```
(doct_id,doct_first_name,doct_mid_name,doct_last_name,dept_id)
  values
(to_char(sysdate,'YYYYMMDD')||'DOCT'||doct_id_seq.nextval,'Hardik','Upadhyay','Nar
eshBhai','20171102DEPT3');
```

5.Doctor_contact

insert into doctor_contact (doct_id,doct_contact_no)
 values('20171102DOCT5',9598789565);

6.Doctor_Qualification

- insert into qualification (doct_id,QUALIFICATION) values('20171102DOCT5','MBBS');
- insert into qualification (doct_id,QUALIFICATION) values('20171102DOCT5','MD');

7.Doctor_class

insert into doctor_class (doct_id,visiting_time,availability)
 values('20171102DOCT5','8a.m. to 1p.m. and 4 to 7p.m.','every day');

8.User

- insert into
 - user_master(USER_ID,USER_FIRST_NAME,USER_MID_NAME,USER_LAST_NAME,USER_PASSWORD,USER_AGE,USER_GENDER,USER_BLOOD_GRP,USER_DESCRIPTION,USER_CITY,USER_STREET,USER_PINCODE,USER_EMAIL)
 values(to_char(sysdate,'YYYYMMDD')||'USER'||user_id_seq.nextval,'Sandhya','Suraj','R athi','ascvdgfjdks',27,'F','B+',null,'Pushkar','Hanuman
 Gali',436036,'diyaaurbati@gmail.com');
- insert into
 - user_master(USER_ID,USER_FIRST_NAME,USER_MID_NAME,USER_LAST_NAME,USER_PASSWORD,USER_AGE,USER_GENDER,USER_BLOOD_GRP,USER_DESCRIPTION,USER_CITY,USER_STREET,USER_PINCODE,USER_EMAIL) values(to_char(sysdate,'YYYYMMDD')||'USER'||user_id_seq.nextval,'Sandhya','Suraj','Rathi','ascvdgfjdks',27,'F','B+',null,'Pushkar','Hanuman Gali',436036,null);

9.User_contact

insert into user_contact (user_id,user_contact_no)
 values('20171103USER59',8248648624);

10.Patient

insert into patient_master(pt_id,user_id)
 values(to_char(sysdate,'YYYYMMDD')||'PT'||pt_id_seq.nextval,'20171103USER59');

11.Appointment

insert into appointment (APT_ID,DOCT_ID,PT_ID,APT_STATUS,APT_DATE,APT_TIME)
 values(to_char(sysdate,'YYYYMMDD')||'APT'||apt_id_seq.nextval,'20171102DOCT5',
 '20171103PT90','appointed','03-Nov-2017','03 p.m.');

12.Staff

insert into
 staff(STAFF_ID,STAFF_FIRST_NAME,STAFF_LAST_NAME,STAFF_MID_NAME,DEPT_ID,ST
 AFF_ADDRESS) values
 (to_char(sysdate,'YYYYMMDD')||'STAFF'||staff_id_seq.nextval,'Bhargav','Rathod','N','2
 0171102DEPT2','add1');

13.Staff contact

insert into staff_contact (staff_id,staff_contact_no)
 values('20171103STAFF2',1123456789);

14.Medicine

insert into
 medicine_store(MED_ID,MED_NAME,DEPT_ID,COMPANY_NAME,MED_PRICE,MED_MF
 D,MED_EXPD)
 values(to_char(sysdate,'YYMMDD')||'MED'||med_id_seq.nextval,'med1','20171102DE
 PT2','comp1',123,'01-Jan-2015','01-Jan-2017');

15.Order

• insert into order_master(ORDER_ID,MED_ID,USER_ID,DELI_ADDRESS,STATUS)values (to_char(sysdate,'YYMMDD')||'ORDER'||order_id_seq.nextval,'171103MED1','2017110

3USER59', 'add1', 'completed');

16.Fecility

insert into dept_facility(ROOM_NO,DEPT_ID,TOT_BED)
 values(1,'20171102DEPT2',10);

17.Status

insert into room_status(ROOM_NO,AVAILABLE_BED)values (1,7);

18.Operation

insert into
 operates(DOCT_ID,PT_ID,OP_ID,OP_DATE,OP_START_TIME,OP_END_TIME,STATUS)
 values('20171102DOCT5','20171103PT1',to_char(sysdate,'YYMMDD')||'OP'||op_id_seq
 .nextval,'21-Oct-2017',null,null,null);

Report

See Hospital List: select * from Hospital

See Department List For Selected Hospital id:select * from Department_master where hospital id=:h id

See Doctors Details from Department id select * from doctor_master where dept_id=:de_id

see Doctor Qualification from Doctor id:select * from qualification where doct_id =:d_id

Some Examples of SRS Queries

1 Authanticate user

create view user_credential as select user_id,user_password from user master;

Select user_id,user_password from user_credential where user_id='20171103USER69' and user_password='ascvdgfjdks';

2 Update

Query:update user_master set user_street='galaxy road' where user_id='201710040001';

3 Appointment Check

create index app_index on appointment(apt_date,apt_time,apt_status);

select user_first_name,user_mid_name,user_last_name from appointment natural join patient_master natural join user_master where apt_date='03-NOV-17';

4 Appointment Update

update appointment set

apt status='cancelled' where apt id='apt1';

5 Doctor Details

6 Staff Details

create index on input and fetch output from staff join staff contact same as above

7 Medicine

create index med_nm on medicine_store(med_name);

select med_id from medicine_store where med_name='abc';

8 Medicine Quality

select company_name,med_price,med_mfd,med_expd from medicine store where med id='123';

9 Invoice Generate

select sum(med price) from order master natural join

medicine_storewhere user_id=:u_id group by(order_id);