2213712080003
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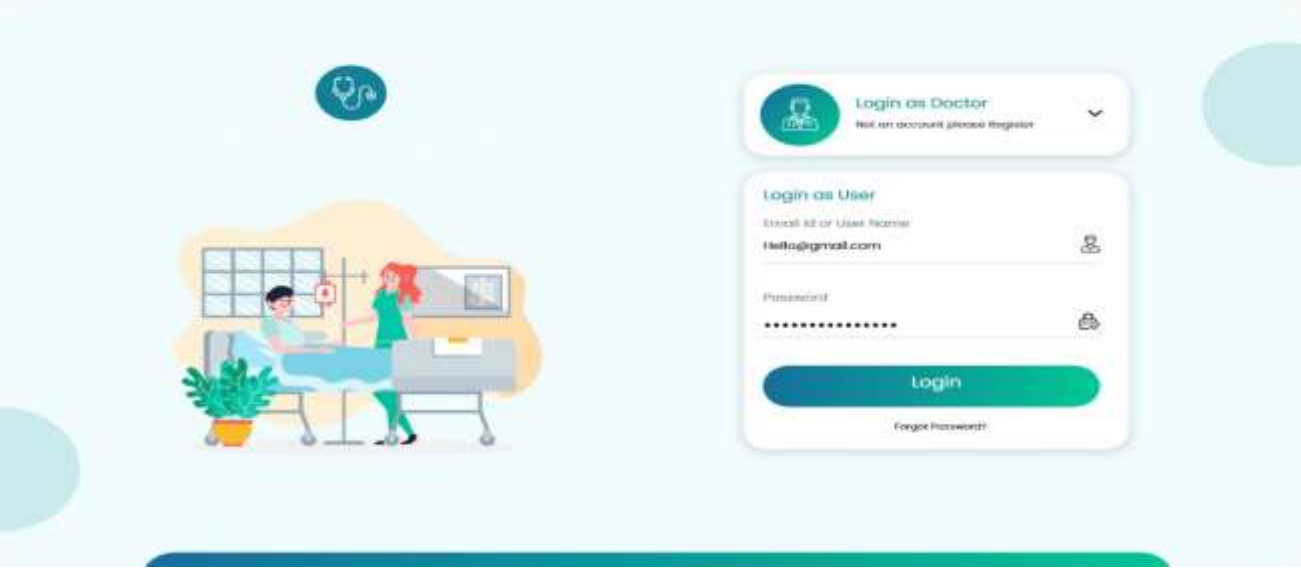
HOSPITAL APPOINTMENT BOOKING MANAGEMENT



ABSTRACT:

The main objective of the project is to implement all the SQL query command based on a particular theme in oracle for better understanding in the concepts of data definition, manipulation languages and the constraints involved.

INTRODUCTION:
(THEME OF THE PROJECT)

The project “HOSPITAL APPOINTMENT BOOKING MANAGEMENT” contains seven (7) tables where each table is interconnected to one another. The tables connected are patient table, doctor table, clinic table, schedule table, consultation table, reservation table and fees table.

Patient table contains the basic details about the patient; doctor table contains the specialization and the status of the doctor. Clinic table contains the details and the availability of the clinic. The schedule tables schedule and allots to doctor. Consultation table deals with the type of treatment or the details of the consultation of the patient; reservation table allots to patient and doctor and reserves the appointment and the fees table deals with the consultation fees transaction.

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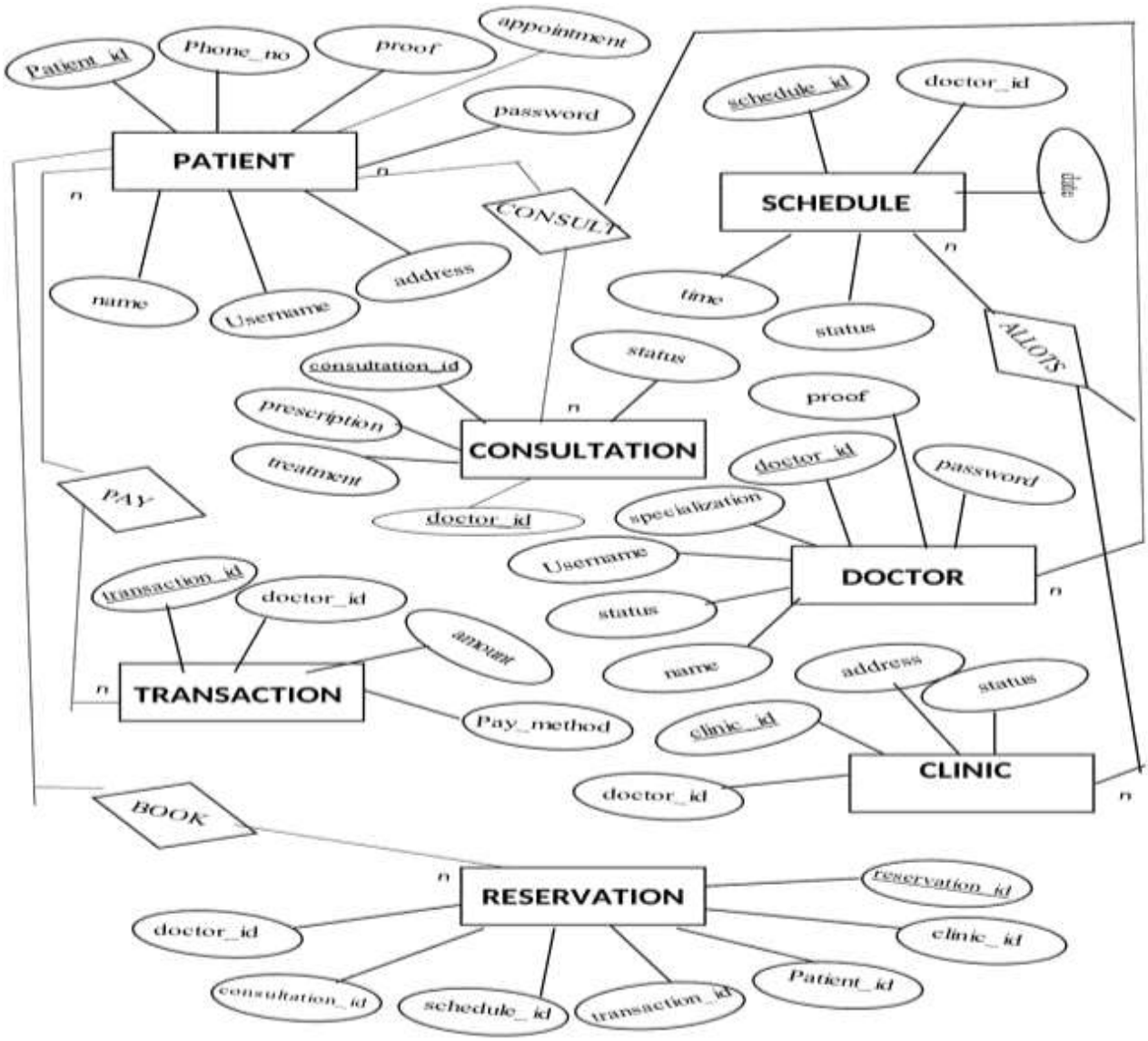
PROJECT CONTENT:

- ER diagram
- Overall schema
- DDL(CREATE,ALTER,DROP,RENAME)
- DML(SELECT,INSERT,UPDATE,DELETE)
- Other functions
- Test cases
- Error captured

ER DIAGRAM:



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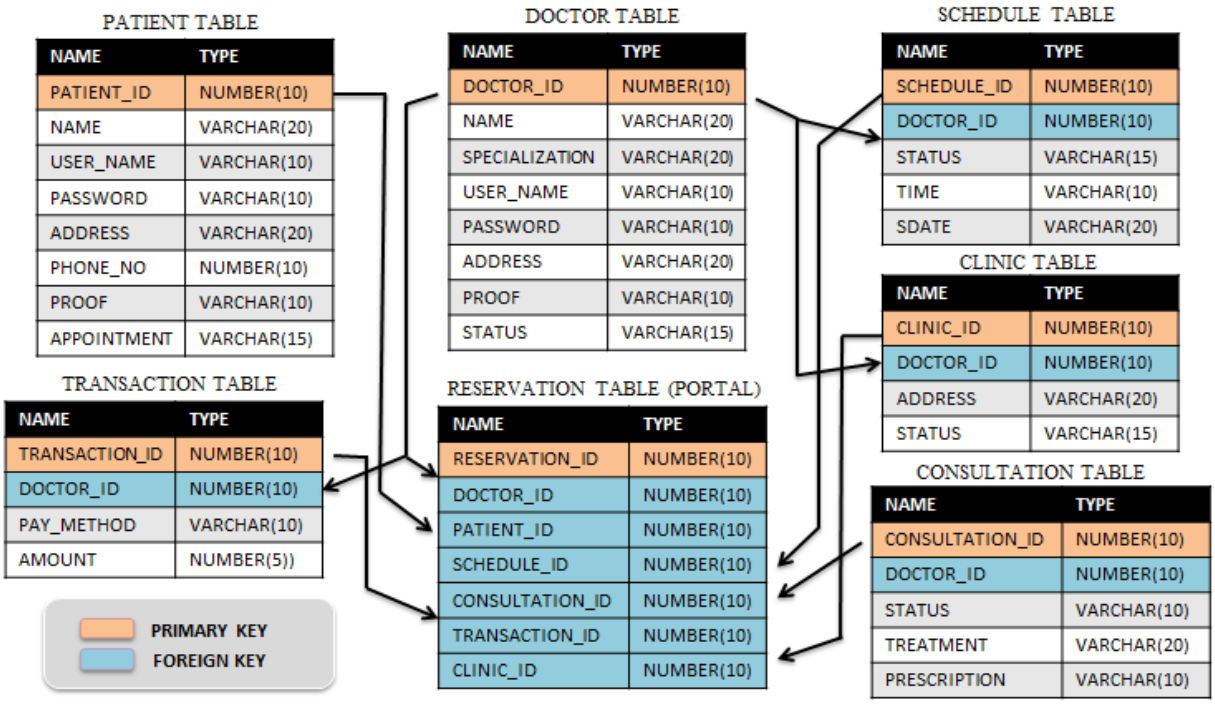
OVERALL SCHEMA:



DDL (DATA DEFINITION LANGUAGE):

1. TABLE CREATION:

TABLE NO.01

TABLE NAME: PATIENT

PRIMARY KEY: patient_id

```
SQL> create table PATIENT (patient_id number(10)PRIMARY KEY,name varchar(20),use
r_name varchar(10)NOT NULL,password varchar(10)NOT NULL,address varchar(20),phon
e_no number(10),proof varchar(10),appointment varchar(15));

Table created.
```

```
SQL> DESC PATIENT;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------

 PATIENT_ID                                NOT NULL NUMBER(10)
 NAME                                               VARCHAR2(20)
 USER_NAME                                 NOT NULL VARCHAR2(10)
 PASSWORD                                  NOT NULL VARCHAR2(10)
 ADDRESS                                            VARCHAR2(20)
 PHONE_NO                                           NUMBER(10)
 PROOF                                              VARCHAR2(10)
 APPOINTMENT                                        VARCHAR2(15)
```

TABLE NO.02

TABLE NAME: DOCTOR

PRIMARY KEY: doctor_id

```
SQL> create table DOCTOR (doctor_id number(10)PRIMARY KEY,name varchar(20),speci
allization varchar(20),user_name varchar(10)NOT NULL,password varchar(10)NOT NUL
L,address varchar(20),proof varchar(10),status varchar(15));

Table created.
```

```
SQL> desc DOCTOR;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------

 DOCTOR_ID                                 NOT NULL NUMBER(10)
 NAME                                               VARCHAR2(20)
 SPECIALLIZATION                                    VARCHAR2(20)
 USER_NAME                                 NOT NULL VARCHAR2(10)
 PASSWORD                                  NOT NULL VARCHAR2(10)
 ADDRESS                                            VARCHAR2(20)
 PROOF                                              VARCHAR2(10)
 STATUS                                             VARCHAR2(15)
```

TABLE NO.03

TABLE NAME: CLINIC

PRIMARY KEY: clinic_id

```
SQL> create table CLINIC (clinic_id number(10)PRIMARY KEY,doctor_id number(10)NO
T NULL REFERENCES DOCTOR(doctor_id),address varchar(20),status varchar(15));

Table created.
```

```
SQL> desc CLINIC;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------

 CLINIC_ID                                 NOT NULL NUMBER(10)
 DOCTOR_ID                                 NOT NULL NUMBER(10)
 ADDRESS                                            VARCHAR2(20)
 STATUS                                             VARCHAR2(15)
```

TABLE NO.04

TABLE NAME: CLINIC_SCHEDULE

PRIMARY KEY: schedule_id

```
SQL> create table CLINIC_SCHEDULE (schedule_id number(10)PRIMARY KEY,doctor_id n
umber(10)NOT NULL REFERENCES DOCTOR(doctor_id),status varchar(15),time varchar(1
0));

Table created.
```

```
SQL> desc CLINIC_SCHEDULE;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 SCHEDULE_ID                               NOT NULL NUMBER(10)
 DOCTOR_ID                                 NOT NULL NUMBER(10)
 STATUS                                             VARCHAR2(15)
 TIME                                               VARCHAR2(10)
 SDATE                                              VARCHAR2(20)
```

TABLE NO.05

TABLE NAME: FEES

PRIMARY KEY: transaction_id

```
SQL> create table FEES (transaction_id number(10)PRIMARY KEY,doctor_id number(10
)NOT NULL REFERENCES DOCTOR(doctor_id),pay_method varchar(10),amount number(5));

Table created.
```

```
SQL> desc FEES;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------

 TRANSACTION_ID                            NOT NULL NUMBER(10)
 DOCTOR_ID                                 NOT NULL NUMBER(10)
 PAY_METHOD                                         VARCHAR2(10)
 AMOUNT                                             NUMBER(5)
```

TABLE NO.06

TABLE NAME: CONSULTATION

PRIMARY KEY: consultation _id

```
SQL> create table CONSULATION (consulation_id number(10)PRIMARY KEY,status varch
ar(10),treatment varchar(20),prescription varchar(10));

Table created.
```

```
SQL> desc CONSULATION;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------

 CONSULATION_ID                            NOT NULL NUMBER(10)
 STATUS                                             VARCHAR2(10)
 TREATMENT                                          VARCHAR2(20)
 PRESCRIPTION                                       VARCHAR2(10)
```

TABLE NO.07

TABLE NAME: RESERVATION

PRIMARY KEY: reservation_id

```
SQL> create table RESERVATION (reservation_id number(10)PRIMARY KEY,doctor_id nu
mber(10) REFERENCES DOCTOR,patient_id number(10)REFERENCES PATIENT,schedule_id n
umber(10)REFERENCES CLINIC_SCHEDULE,consulation_id number(10)REFERENCES CONSULAT
ION,transaction_id number(10)REFERENCES FEES);

Table created.
```

```
SQL> desc RESERVATION;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------

 RESERVATION_ID                            NOT NULL NUMBER(10)
 DOCTOR_ID                                          NUMBER(10)
 PATIENT_ID                                         NUMBER(10)
 SCHEDULE_ID                                        NUMBER(10)
 CONSULATION_ID                                     NUMBER(10)
 TRANSACTION_ID                                     NUMBER(10)
```

2. ALTER WITH MODIFY:

SYNTAX: alter table table_name modify column_name datatype(value);

```
SQL> alter table patient modify name varchar(12);

Table altered.

SQL> alter table patient modify address varchar(12);

Table altered.

SQL> alter table patient modify proof varchar(12);

Table altered.

SQL> alter table patient modify appointment varchar(12);

Table altered.

SQL> alter table patient modify address varchar(12);

Table altered.
```

3. ALTER WITH ADD:

SYNTAX: alter table table_name add column_name datatype(value);

```
SQL> alter table CLINIC_SCHEDULE add sdate varchar(20);

Table altered.
```

4. DROP TABLE:

SYNTAX: alter table patient drop column proof;

```
SQL> alter table patient drop column proof;

Table altered.

SQL> select * from patient;

PATIENT_ID NAME     USER_NAME  PASSW ADDRESS        PHONE_NO APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- ------------
      2203 Abdul    Abdul      Abz87 Tambaram     8339873450 21-oct-2022
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 21-oct-2022
      2201 Anusha   Anusha     Anu22 Perambur     9444290873 20-oct-2022
```

SYNTAX: drop table consultation2;

```
SQL> drop table consultation2;

Table dropped.
```

5. RENAME:

SYNTAX: alter table patient rename column phone_no to phno;

```
SQL> alter table patient rename column phone_no to phno;

Table altered.

SQL> desc patient;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 PATIENT_ID                                NOT NULL NUMBER(18)
 NAME                                               VARCHAR2(8)
 USER_NAME                                 NOT NULL VARCHAR2(10)
 PASSWORD                                  NOT NULL VARCHAR2(5)
 ADDRESS                                            VARCHAR2(12)
 PHNO                                               NUMBER(18)
 APPOINTMENT                                        VARCHAR2(12)

SQL>
```

SYNTAX: alter table patient rename to patient_details;

```
SQL> alter table patient rename to patient_details;

Table altered.

SQL> desc patient;
ERROR:
ORA-04043: object patient does not exist


SQL> desc patient_details;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 PATIENT_ID                                NOT NULL NUMBER(18)
 NAME                                               VARCHAR2(8)
 USER_NAME                                 NOT NULL VARCHAR2(10)
 PASSWORD                                  NOT NULL VARCHAR2(5)
 ADDRESS                                            VARCHAR2(12)
 PHNO                                               NUMBER(18)
 APPOINTMENT                                        VARCHAR2(12)
```

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DATA MANIPULATION LANGUAGE:

1. SELECT STATEMENT

A) SELECTING WHOLE TABLE.

SYNTAX: select * from tablename;
select * from patient;

```
SQL> select * from patient;

PATIENT_ID NAME     USER_NAME  PASSW ADDRESS        PHONE_NO PROOF APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- ----- ------------
      2203 Abdul    Abdul      Abz87 Tambaram     8339873450 -464  21-oct-2022
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 -264  21-oct-2022
      2201 Anusha   Anusha     Anu22 Perambur     9444290873 -191  20-oct-2022
```

B) SELECTING USING WHERE.

SYNTAX: select * from patient where address='Chrompet';

```
SQL> select * from patient where address='Chrompet';

PATIENT_ID NAME     USER_NAME  PASSW ADDRESS        PHONE_NO PROOF APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- ----- ------------
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 -264  21-oct-2022

SQL>
```

C) SELECTING PARTICULAR COLUMN.

SYNTAX: select name,appointment from patient;

```
SQL> select name,appointment from patient;

NAME     APPOINTMENT
-------- ------------
Abdul    21-oct-2022
Yamini   21-oct-2022
Anusha   20-oct-2022

SQL>
```

2. INSERTING VALUES TO TABLES

TABLE NO.01

TABLE NAME: PATIENT

insert into patient
values(2203,'Abdul','Abdul','Abz87','Tambaram',8339873450,523-987,'21-oct-2022')
insert into patient
values(2202,'Yamini','Yamini','Yaz22','Chrompet',9449873450,323-587,'21-oct-2022')
insert into patient
values(2201,'Anusha','Anusha','Anu22','Perambur',9444290873,376-567,'20-oct-2022')

```
SQL> insert into patient values(2201,'Anusha','Anusha','Anu22','Perambur',944429
0873,376-567,'20-oct-2022');

1 row created.

SQL> insert into patient values(2202,'Yamini','Yamini','Yaz22','Chrompet',944987
3450,323-587,'21-oct-2022');

1 row created.

SQL> insert into patient values(2203,'Abdul','Abdul','Abz87','Tambaram',83398734
50,523-987,'21-oct-2022');

1 row created.
```

```
SQL> select * from patient;

PATIENT_ID NAME     USER_NAME  PASSW ADDRESS        PHONE_NO PROOF APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- ----- ------------
      2203 Abdul    Abdul      Abz87 Tambaram     8339873450 -464  21-oct-2022
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 -264  21-oct-2022
      2201 Anusha   Anusha     Anu22 Perambur     9444290873 -191  20-oct-2022
```

TABLE NO.02

TABLE NAME: DOCTOR

insert into DOCTOR values(32043,'Dr.Ajith Prasad','General Surgeon','Ajith','Aji32043','Chennai',971-0201-750,'Available')

insert into DOCTOR values(31914,'Dr.Shanmuga Priya','Gynaecologist','Priya','Priya31914','Ashok Nagar',938-1065-016,'Available')

insert into DOCTOR values(60324,'Dr.Anand Vijayan','Cardiologist','Anand','Anand60324','Vanagaram',938-1729-424,'Available')


```
SQL> select * from DOCTOR;

 DOCTOR_ID NAME                 SPECIALIZATION               USER_NAME
---------- -------------------- ---------------------------- ------------------
PASSWORD           ADDRESS              PROOF      STATUS
------------------ -------------------- ---------- ---------------
     32043 Dr.Ajith Prasad      General Surgeon              Ajith
Aji32043           Chennai              20         Available

     31914 Dr.Shanmuga Priya    Gynaecologist                Priya
Priya31914         Ashok Nagar          -143       Available

     60324 Dr.Anand Vijayan     Cardiologist                 Anand
Anand60324         Vanagaram            -1215      Available
```

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TABLE NO.03

TABLE NAME: CLINIC

insert into CLINIC values(8060,31914,'Nungambakkam', 'Available');
insert into CLINIC values(1120,60324,'Porur', 'Available');
insert into CLINIC values(1120,32043,'Mogappair', 'Available');
insert into CLINIC values(4301, 60324,'Ambattur', 'Available');
insert into CLINIC values(20034,31914,'Ramapuram', 'Available');

```
SQL> insert into CLINIC values(8060,31914,'Nungambakkam','Available');

1 row created.

SQL> insert into CLINIC values(1120,60324,'Porur','Available');

1 row created.

SQL> insert into CLINIC values(1220,32043,'Mogappair','Available');

1 row created.
```

```
SQL> select * from CLINIC ;

 CLINIC_ID  DOCTOR_ID ADDRESS             STATUS
---------- ---------- -------------------- ---------------
      8060      31914 Nungambakkam         Available
      1120      60324 Porur                Available
      1220      32043 Mogappair            Available
      4301      60324 Ambattur             Available
     20034      31914 Ramapuram            Available
```

TABLE NO.04

TABLE NAME: CLINIC_SCHEDULE

insert into CLINIC_SCHEDULE values(4188,32043,'Waiting','7 pm');
insert into CLINIC_SCHEDULE values(1119,31914,'Completed','10 am');
insert into CLINIC_SCHEDULE values(2105,60324,'In Review','5 pm');

```
SQL> insert into CLINIC_SCHEDULE values(4188,32043,'Waiting','7 pm');

1 row created.

SQL> insert into CLINIC_SCHEDULE values(1119,31914,'Completed','10 am');

1 row created.

SQL> insert into CLINIC_SCHEDULE values(2105,60324,'In Review','5 pm');

1 row created.
```

Select * from CLINIC_SCHEDULE;

```
SQL> select * from CLINIC_SCHEDULE;

SCHEDULE_ID  DOCTOR_ID STATUS          TIME
----------- ---------- --------------- ----------
       4188      32043 Waiting         7 pm
       1119      31914 Completed       10 am
       2105      60324 In Review       5 pm
```

TABLE NO.05

TABLE NAME: CONSULTATION

insert into CONSULTATION values(1001,’Required’,’Surgery’,’Prescribed’);
insert into CONSULTATION
values(1001,’Optional’,’Immunotheraphy’,’Prescribed’);insert into
CONSULTATION values(1001,’Required’,’Allopathic medicine’,’Prescribed’);

```
SQL> insert into CONSULTATION values(1001,'Required','Surgery','Prescribed');

1 row created.
SQL> insert into CONSULTATION values(1130,'Optional','Immunotherapy','Prescribed');

1 row created.

SQL> insert into CONSULTATION values(1955,'Required','Allopathic medicine','Prescribed');

1 row created.
```

CONSULTATION_ID	STATUS	TREATMENT	PRESCRIPTI
1001	Required	Surgery	Prescribed
1130	Optional	Immunotherapy	Prescribed
1955	Required	Allopathic medicine	Prescribed

TABLE NO.06

TABLE NAME: FEES

insert into FEES values(7717,31914,'Cash',1000);
insert into FEES values(5011,31914 ,'Gpay',480);
insert into FEES values(6230,31914,'Cash',890);

```
SQL> insert into FEES values(7717,60324,'Cash',1000);

1 row created.

SQL> insert into FEES values(5011,32043,'Gpay',480);

1 row created.

SQL> insert into FEES values(6230,31914,'Cash',890);

1 row created.
```

```
SQL> select * from FEES;

TRANSACTION_ID  DOCTOR_ID PAY_METHOD     AMOUNT
-------------- ---------- ---------- ----------
          7717      60324 Cash             1000
          5011      32043 Gpay              480
          6230      31914 Cash              890
```

TABLE NO.07

TABLE NAME: RESERVATION

insert into RESERVATION values(616,32043,2203,4188,1001,7717,8060);
insert into RESERVATION values(617,31914,2202,1119,1130,5011,1220);
insert into RESERVATION values(618,32043,2201,2105,1955,6230,20034);

```
SQL> insert into RESERVATION values(616,32043,2203,4188,1001,7717,8060);

1 row created.

SQL> insert into RESERVATION values(617,31914,2202,1119,1130,5011,1220);

1 row created.

SQL> insert into RESERVATION values(618,60324,2201,2105,1955,6230,20034);

1 row created.
```

```
SQL> select * from RESERVATION;

RESERVATION_ID  DOCTOR_ID PATIENT_ID SCHEDULE_ID CONSULTATION_ID TRANSACTION_ID
-------------- ---------- ---------- ----------- --------------- --------------
 CLINIC_ID
----------
           616      32043       2203        4188            1001           7717
      8060

           617      31914       2202        1119            1130           5011
      1220

           618      60324       2201        2105            1955           6230
     20034
```

3. UPDATE VALUES IN TABLES

SYNTAX: UPDATE PATIENT set name = 'Gowthami' where patient_id = 2203 ;

```
SQL> UPDATE PATIENT set name ='Gowthami' where patient_id = 2203 ;

1 row updated.

SQL> select * from PATIENT;

PATIENT_ID NAME                           USER_NAME  PASSWORD
---------- ------------------------------ ---------- ------------------
ADDRESS                PHONE_NO PROOF                APPOINTMENT
---------------------- ---------- -------------------- ---------------
      2203 Gowthami                          Abdul      Abz87
Tambaram               8339873450 -464               21-oct-2022

      2202 Yamini                            Yamini     Yaz22
Chrompet               9449873450 -264               21-oct-2022

      2201 Anusha                            Anusha     Anu22
Perambur               9444290873 -191               20-oct-2022
```

SYNTAX: UPDATE CLINIC_SCHEDULE set status = 'Completed' where schedule_id = 4188 ;

```
SQL> UPDATE CLINIC_SCHEDULE set status = 'Completed' where schedule_id = 4188;

1 row updated.

SQL> select * from CLINIC_SCHEDULE;

SCHEDULE_ID  DOCTOR_ID STATUS          TIME
----------- ---------- --------------- ----------
       4188      32043 Completed       7 pm
       1119      31914 Completed       10 am
       2105      60324 In Review       5 pm
```

4. DELETE VALUES IN TABLES

A) DELETING SPECIFIC ROW

SYNTAX: delete patient where patient_id=2204;

```
SQL> delete from patient where patient_id=2204;

1 row deleted.
```

```
SQL> select * from patient;

PATIENT_ID NAME     USER_NAME  PASSW ADDRESS            PHNO APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- -----------
      2203 Abdul    Abdul      Abz87 Tambaram     8339873450 21-oct-2022
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 21-oct-2022
      2201 Anusha   Anusha     Anu22 Perambur     9444290873 20-oct-2022
```

OTHER FUNCTIONS:

1. OPERATOR

Finding the status of clinic which is not available:

```
SQL> select * from CLINIC where status='not available';

 CLINIC_ID  DOCTOR_ID ADDRESS              STATUS
---------- ---------- -------------------- --------------------
      8060      31914 Nungambakkam         not available
```

Finding a specialized doctor's availability:

```
SQL> select * from DOCTOR where specialization='Gynaecologist' and status='Avail
able';

 DOCTOR_ID NAME                 SPECIALIZATION               USER_NAME
---------- -------------------- ---------------------------- ----------------
PASSWORD           ADDRESS              PROOF      STATUS
------------------ -------------------- ---------- ---------------
     31914 Dr.Shanmuga Priya    Gynaecologist                Priya
Priya31914         Ashok Nagar          -143       Available
```

2. AGGREGATE FUNCTION

Adding the total fee amount paid by patients:

SUM: select sum (amount) from FEES

```
SQL> select sum(amount) from FEES;

SUM(AMOUNT)
-----------
       2370
```

Finding number of Clinics available:

COUNT: select count(clinic_id) from CLINIC;

```
SQL> select count(clinic_id) from CLINIC;

COUNT(CLINIC_ID)
----------------
               5
```

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TEST CASES:

1. UNIQUE CONSTRIANT:

```
insert into patient values(2201,'Anusha','Anusha','Anu22','Perambur',9444290873,
376-567,'20-oct-2022')
*
ERROR at line 1:
ORA-00001: unique constraint (IIMSC25.SYS_C0033538) violated
```

2. INTEGRITY CONSTRIANT:

```
SQL> insert into CLINIC values(2454,10914,'Vadapalai','Available');
insert into CLINIC values(2454,10914,'Vadapalai','Available')
*
ERROR at line 1:
ORA-02291: integrity constraint (SYSTEM.SYS_C007557) violated - parent key not
found
```

3. DEFAULT CONSTRAINT:

```
SQL> alter table CLINIC modify(status varchar(20) default('not available'));

Table altered.

SQL> insert into CLINIC(clinic_id,doctor_id,address)values(8061,31914,'chennai')
;

1 row created.

SQL> select * from clinic;

 CLINIC_ID  DOCTOR_ID ADDRESS              STATUS
---------- ---------- -------------------- --------------------
      8060      31914 Nungambakkam         not available
      8061      31914 chennai              not available
```

4. CHECK CONSTRAINT:

```
alter table CONSULTATION modify(prescription varchar(20) check (prescription='pr
escribed'))
*
ERROR at line 1:
ORA-02293: cannot validate (SYSTEM.SYS_C003923) - check constraint violated
```

5. NOT NULL CONSTRAINT:

```
insert into patient values(2204,'priya','','','korattur','9555890762','23-sep-20
22')
                                          *
ERROR at line 1:
ORA-01400: cannot insert NULL into ("SYSTEM"."PATIENT"."USER_NAME")
```

6. SIZE CONSTRAINT VIOLATED:

```
insert into patient values(2204,'priya','priya','288888888888888888325','koratt
ur','c789','23-sep-2022')
                                                  *
ERROR at line 1:
ORA-12899: value too large for column "SYSTEM"."PATIENT"."PASSWORD" (actual:
22, maximum: 5)
```

7. DATATYPE CONSTRAINT VIOLATED:

```
insert into patient values(2204,'priya','priya','2325','korattur','c789','23-sep
-2022')
                                                                  *
ERROR at line 1:
ORA-01722: invalid number
```

ERROR CAPTURED:

1. Tried adding a column name as a foreign key which is not a primary key in its parent table.

```
SQL> create table CLINIC (clinic_id number(10)PRIMARY KEY,doctor_id number(10) R
EFERENCES DOCTOR(doctor_id),address varchar(20),status varchar(15)REFERENCES DOC
TOR(status));
create table CLINIC (clinic_id number(10)PRIMARY KEY,doctor_id number(10) REFERE
NCES DOCTOR(doctor_id),address varchar(20),status varchar(15)REFERENCES DOCTOR(s
tatus))
                                                                              *
ERROR at line 1:
ORA-02270: no matching unique or primary key for this column-list
```

2. Tried adding a column name which is a datatype name(keyword)

```
SQL> alter table CLINIC_SCHEDULE add date varchar(20);
alter table CLINIC_SCHEDULE add date varchar(20)
                              *
ERROR at line 1:
ORA-00904: : invalid identifier
```

```
SQL> alter table CLINIC_SCHEDULE add sdate varchar(20);

Table altered.
```

3. Tried to drop a table which is connected to other tables

```
SQL> drop table clinic;
drop table clinic
           *
ERROR at line 1:
ORA-02449: unique/primary keys in table referenced by foreign keys
```

4. Tried creating a table with existing name

```
create table CONSULTATION (consultation_id number(18) PRIMARY KEY, status varcha
r(18), treatment varchar(28), prescription varchar(10))
             *
ERROR at line 1:
ORA-00955: name is already used by an existing object
```

5. Syntax error

```
create table CONSULTATION (consultation_id number(18) PRIMARY KEY, status varcha
r(18) treatment varchar(28), prescription varchar(10));

      *
ERROR at line 1:
ORA-00907: missing right parenthesis
```

6. Searched a value which does not exist and searched a value with case sensitive error in it.

```
PATIENT_ID NAME     USER_NAME  PASSW ADDRESS        PHONE_NO PROOF APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- ----- -----------
      2203 Abdul    Abdul      Abz87 Tambaram     8339873450 -464  21-oct-2022
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 -264  21-oct-2022
      2201 Anusha   Anusha     Anu22 Perambur     9444290873 -191  20-oct-2022

SQL> select * from patient where address='chennai';

no rows selected

SQL> select * from patient where address='chrompet';

no rows selected

SQL> select * from patient where address='Chrompet';
PATIENT_ID NAME     USER_NAME  PASSW ADDRESS        PHONE_NO PROOF APPOINTMENT
---------- -------- ---------- ----- ------------ ---------- ----- -----------
      2202 Yamini   Yamini     Yaz22 Chrompet     9449873450 -264  21-oct-2022

SQL>
```

7. Tried to add an existing column

```
alter table CONSULTATION add(prescription varchar(20) check (prescription='presc
ribed'))
                             *
ERROR at line 1:
ORA-01430: column being added already exists in table
```

CONCLUSION:

In conclusion, a database is a far more efficient mechanism to store and organize data than spreadsheets; it allows for a centralized facility that can easily be modified and quickly shared among multiple users. This beneficial decision covers the needs of the patients, staff and hospital authorities and simplifies their interactions. It has become the usual approach to manage the hospital appointments. Thus, the query commands are successfully implemented and executed.

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