**USERS**

CREATE USER AGHAKHAN IDENTIFIED BY ABC;

GRANT ALL PRIVILEGES TO AGHAKHAN;

**OLTP TABLES**

CREATE TABLE PATIENT\_OLTP

(

PATIENT\_CNIC VARCHAR2(15) PRIMARY KEY,

NAME VARCHAR2(50),

MOBILE VARCHAR2(12),

ADDRESS VARCHAR2(100),

DOB DATE,

BLOOD\_GROUP VARCHAR2(3),

GENDER VARCHAR2(10),

EMERGENCY\_CONTACT\_NAME VARCHAR2(50),

EMERGENCY\_CONTACT\_NUMBER VARCHAR2(15),

EMERGENCY\_CONTACT\_ADDRESS VARCHAR2(100),

EMERGENCY\_CONTACT\_RELATION VARCHAR2(30),

MARITAL\_STATUS VARCHAR2(20),

RELIGION VARCHAR2(20),

ALLERGIES VARCHAR2(200),

DATE\_TIME TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

)

CREATE TABLE HOSPITAL\_OLTP

(

HOSPITAL\_ID NUMBER PRIMARY KEY,

NAME VARCHAR2(20),

ADDRESS VARCHAR2(50),IEN

CITY VARCHAR2(20)

)

CREATE TABLE DOCTOR\_OLTP

(

DOCTOR\_ID NUMBER PRIMARY KEY,

NAME VARCHAR2(30),

MOBILE\_NUMBER VARCHAR2(12),

SPECIALITY VARCHAR2(20),

HOSPITAL\_ID REFERENCES HOSPITAL\_OLTP(HOSPITAL\_ID),

SERVING NUMBER(1),

DATE\_TIME TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

)

CREATE TABLE APPOINTMENT\_OLTP(

APPOINTMENT\_NUM NUMBER PRIMARY KEY,

PATIENT\_CNIC REFERENCES PATIENT\_OLTP (PATIENT\_CNIC),

DOCTOR\_ID REFERENCES DOCTOR\_OLTP(DOCTOR\_ID),

HOSPITAL\_ID REFERENCES HOSPITAL\_OLTP(HOSPITAL\_ID),

APPOINTMENT\_DATE DATE,

ADMITTED NUMBER(1),

OPERATION\_NEEDED NUMBER(1),

OPERATION\_DONE NUMBER(1),

OPERATION\_START\_DATE DATE,

OPERATION\_START\_TIME VARCHAR2(10),

OPERATION\_END\_DATE DATE,

OPERATION\_END\_TIME VARCHAR2(10),

OPERATION\_SUCCESSFUL NUMBER(1),

DIAGNOSIS VARCHAR2(30),

COMMENTS VARCHAR2(200),

APP\_DATE TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

)

**STAGING AREA:**

CREATE TABLE PATIENT\_OLTP\_TMP

(

PATIENT\_CNIC VARCHAR2(15) PRIMARY KEY,

NAME VARCHAR2(50),

MOBILE VARCHAR2(12),

ADDRESS VARCHAR2(100),

DOB DATE,

BLOOD\_GROUP VARCHAR2(3),

EMERGENCY\_CONTACT\_NAME VARCHAR2(50),

EMERGENCY\_CONTACT\_NUMBER VARCHAR2(15),

EMERGENCY\_CONTACT\_ADDRESS VARCHAR2(100),

EMERGENCY\_CONTACT\_RELATION VARCHAR2(30),

MARITAL\_STATUS VARCHAR2(20),

RELIGION VARCHAR2(20),

ALLERGIES VARCHAR2(200),

DATE\_TIME TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

)

CREATE TABLE HOSPITAL\_OLTP\_TMP

(

HOSPITAL\_ID NUMBER PRIMARY KEY,

NAME VARCHAR2(20),

ADDRESS VARCHAR2(50),IEN

CITY VARCHAR2(20)

)

CREATE TABLE DOCTOR\_OLTP\_TMP

(

DOCTOR\_ID NUMBER PRIMARY KEY,

NAME VARCHAR2(30),

MOBILE\_NUMBER VARCHAR2(12),

SPECIALITY VARCHAR2(20),

HOSPITAL\_ID REFERENCES HOSPITAL\_OLTP(HOSPITAL\_ID),

SERVING NUMBER(1),

DATE\_TIME TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

)

CREATE TABLE APPOINTMENT\_OLTP\_TMP(

APPOINTMENT\_NUM NUMBER PRIMARY KEY,

PATIENT\_CNIC REFERENCES PATIENT\_OLTP (PATIENT\_CNIC),

DOCTOR\_ID REFERENCES DOCTOR\_OLTP(DOCTOR\_ID),

HOSPITAL\_ID REFERENCES HOSPITAL\_OLTP(HOSPITAL\_ID),

APPOINTMENT\_DATE DATE,

ADMITTED NUMBER(1),

OPERATION\_NEEDED NUMBER(1),

OPERATION\_DONE NUMBER(1),

OPERATION\_START\_DATE DATE,

OPERATION\_START\_TIME VARCHAR2(10),

OPERATION\_END\_DATE DATE,

OPERATION\_END\_TIME VARCHAR2(10),

OPERATION\_SUCCESSFUL NUMBER(1),

DIAGNOSIS VARCHAR2(30),

COMMENTS VARCHAR2(200),

APP\_DATE TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

)

**TRIGGERS:**

CREATE OR REPLACE TRIGGER INSERT\_UPDATE\_PATIENT

AFTER INSERT OR UPDATE ON PATIENT\_OLTP

FOR EACH ROW

BEGIN

INSERT INTO PATIENT\_OLTP\_TMP VALUES (:NEW.PATIENT\_CNIC,:NEW.NAME,:NEW.MOBILE,:NEW.ADDRESS,:NEW.DOB,:NEW.BLOOD\_GROUP,:NEW.EMERGENCY\_CONTACT\_NAME,:NEW.EMERGENCY\_CONTACT\_NUMBER,:NEW.EMERGENCY\_CONTACT\_ADDRESS,:NEW.EMERGENCY\_CONTACT\_RELATION,:NEW.MARITAL\_STATUS,:NEW.RELIGION,:NEW.ALLERGIES,:NEW.DATE\_TIME);

COMMIT;

END;

/

CREATE OR REPLACE TRIGGER INSERT\_UPDATE\_HOSPITAL

AFTER INSERT OR UPDATE ON HOSPITAL\_OLTP

FOR EACH ROW

BEGIN

INSERT INTO HOSPITAL\_OLTP\_TMP VALUES (:NEW.HOSPITAL\_ID,:NEW.NAME,:NEW.ADDRESS,:NEW.CITY);

COMMIT;

END;

/

CREATE OR REPLACE TRIGGER INSERT\_UPDATE\_DOCTOR

AFTER INSERT OR UPDATE ON DOCTOR\_OLTP

FOR EACH ROW

BEGIN

INSERT INTO DOCTOR\_OLTP\_TMP VALUES (:NEW.DOCTOR\_ID,:NEW.NAME,:NEW.MOBILE\_NUMBER,:NEW.SPECIALITY,:NEW.HOSPITAL\_ID,:NEW.SERVING,

:NEW.DATE\_TIME);

COMMIT;

END;

/

CREATE OR REPLACE TRIGGER INSERT\_UPDATE\_APPOINTMENT

AFTER INSERT OR UPDATE ON APPOINTMENT\_OLTP

FOR EACH ROW

BEGIN

INSERT INTO APPOINTMENT\_OLTP\_TMP VALUES(

:NEW.APPOINTMENT\_NUM,

:NEW.PATIENT\_CNIC,

:NEW.DOCTOR\_ID,

:NEW.HOSPITAL\_ID,

:NEW.APPOINTMENT\_DATE,:NEW.ADMITTED,:NEW.OPERATION\_NEEDED,:NEW.OPERATION\_DONE,:NEW.OPERATION\_START\_DATE,:NEW.OPERATION\_START\_TIME,:NEW.OPERATION\_END\_DATE,

:NEW.OPERATION\_END\_TIME,:NEW.OPERATION\_SUCCESSFUL,

:NEW.DIAGNOSIS,:NEW.COMMENTS,:NEW.APP\_DATE);

COMMIT;

END;

/

**PROCEDURES**

create or replace procedure insert\_patient(

p\_cnic in varchar2,

p \_name in varchar2,

p\_mobile in varchar,

p\_ADDRESS in VARCHAR2,

p\_DOB in DATE,

p\_BLOOD\_GROUP in VARCHAR2,

p\_EMERGENCY\_CONTACT\_NAME in VARCHAR2,

p\_EMERGENCY\_CONTACT\_NUMBER in VARCHAR2,

p\_EMERGENCY\_CONTACT\_ADDRESS in VARCHAR2,

p\_EMERGENCY\_CONTACT\_RELATION in VARCHAR2,

p\_MARITAL\_STATUS in VARCHAR2,

p\_RELIGION in VARCHAR2,

p\_ALLERGIES in VARCHAR2,

p\_gender varchar2(10)

)

as

begin

insert into patient\_oltp values (p\_cnic,p\_name,p\_mobile,p\_address,p\_dob,p\_blood\_group,p\_emergency\_contact\_name,p\_emergency\_contact\_number,p\_emergency\_contact\_address,p\_emergency\_contact\_relation,p\_marital\_status,p\_religion,p\_allergies,current\_timestamp,p\_gender);

end;

/

create or replace procedure find\_patient

(

p\_nic in varchar2,

res out number)

is

s varchar2(20);

begin

select patient\_cnic into s from patient\_oltp where patient\_cnic=p\_nic;

res:=1;

exception when no\_data\_found

then

res:=0;

end;

/