Hospital Management System

DBMS Project

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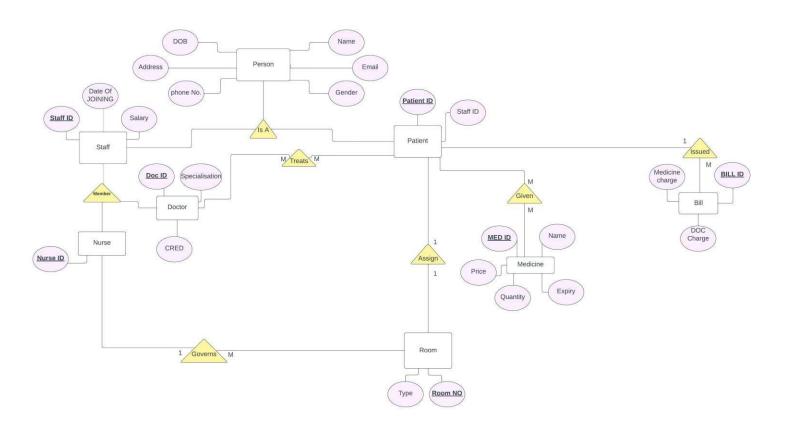
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1. Problem Statement

A system to manage the activities in a hospital.

2. ER Diagram



3. ER to Table

	PERSON	
PK	Person_ID	NUMBER
	PERSON_FULL_NAME	VARCHAR
	PERSON_DOB	DATE
	PERSON_EMAIL	VARCHAR
	PERSON_PHONE	NUMBER
	PERSON_GENDER	VARCHAR
	PERSON_BLOOD_GROUP	VARCHAR
	PERSON_ROLE	VARCHAR

	PATIENT	
PK	PT_ID	NUMBER
FK	PERSON_ID	NUMBER

	DOCTOR	
FK	ST_ID	NUMBER
PK	DOC_ID	NUMBER
	DOC_Speciality	VARCHAR

	NURSE	
PK	N_ID	NUMBER
FK	ST_ID	NUMBER
	N_SHIFT	VARCHAR

	MEDICINE	
PK	MED_ID	NUMBER
	MED_NAME	VARCHAR

	PATIENT_GIVEN_MEDICINE	
FK,PK	MED_ID	NUMBER
FK,PK	PT_ID	NUMBER
	MED_QTY	NUMBER

	DOC_TREAT_PATIENT	
FK,PK	DOC_ID	NUMBER

FK,PK	PT_ID	NUMBER
	DISEASE	VARCHAR
	DOC_COMMENTS	VARCHAR

	ROOM	
PK	ROOM_ID	NUMBER
	ROOM_TYPE	VARCHAR
	ROOM_PRICE	NUMBER
	ROOM_AVAILABLE	NUMBER

	ALLOT_ROOM	
FK,PK	PT_ID	NUMBER
FK	N_ID	NUMBER
	ROOM_CHECKIN	DATE
	ROOM_CHECKOUT	DATE

	BILL	
PK	BILL_ID	NUMBER
FK	PT_ID	NUMBER
	ROOM_CHARGE	NUMBER
	TREAT_CHARGE	NUMBER
	ADD_CHARGE	NUMBER
	BILL_TAX	NUMBER
	BILL_ISSUE_DATE	DATE

4. Code + Outputs

-- Creating Tables using SQL commands

```
CREATE TABLE PERSON(
  PERSON ID NUMBER.
  PERSON FULL NAME VARCHAR2(20) NOT NULL.
  PERSON DOB DATE.
  PERSON EMAIL VARCHAR2(30),
  PERSON_PHONE NUMBER(10) NOT NULL,
  PERSON GENDER VARCHAR2(10).
  PERSON BLOOD GROUP VARCHAR2(5).
  PERSON_ROLE VARCHAR2(5) CHECK(PERSON_ROLE IN ('PT', 'DOC', 'N')),
  CONSTRAINT PERSON_PK PRIMARY KEY(PERSON_ID),
  CONSTRAINT PERSON BLOODGROUP_CH CHECK(PERSON_BLOOD_GROUP=
ANY('A+','A-','B-','B+','AB+','AB-','O-','O+','AEL')),
  CONSTRAINT PERSON GENDER CH CHECK(PERSON GENDER =
ANY('MALE', 'FEMALE', 'OTHERS'))
CREATE TABLE
  PATIENT( PERSON_ID
  NUMBER,
  CONSTRAINT PT PK PRIMARY KEY(PERSON ID),
  CONSTRAINT PT FK FOREIGN KEY(PERSON ID) REFERENCES PERSON(PERSON ID)
CREATE TABLE
  STAFF( PERSON_ID NUMBER
  UNIQUE.
  ST_ID NUMBER GENERATED ALWAYS AS IDENTITY(START WITH 1 INCREMENT BY 1),
  ST SALARY NUMBER(10, 3),
  ST JOIN DATE DATE NOT NULL.
  ST YRS EXPERIENCE NUMBER NOT NULL.
  ST_QUALIFICATION VARCHAR2(20) NOT NULL,
  CONSTRAINT ST PK PRIMARY KEY(ST ID),
  CONSTRAINT ST_FK FOREIGN KEY(PERSON_ID) REFERENCES PERSON(PERSON_ID)
);
CREATE TABLE DOCTOR(
  ST ID NUMBER.
  DOC_ID NUMBER GENERATED ALWAYS AS IDENTITY(START WITH 1 INCREMENT BY 1),
 DOC SPECIALITY VARCHAR2(20),
  CONSTRAINT DOC_PK PRIMARY KEY(DOC_ID),
  CONSTRAINT DOC_FK FOREIGN KEY(ST_ID) REFERENCES STAFF(ST_ID)
);
CREATE TABLE NURSE(
  N ID NUMBER GENERATED ALWAYS AS IDENTITY(START WITH 1 INCREMENT BY 1),
```

```
ST ID NUMBER.
  N_SHIFT VARCHAR2(5) CHECK(N_SHIFT IN ('DAY', 'NIGHT')),
  CONSTRAINT N PK PRIMARY KEY(N ID),
  CONSTRAINT N FK FOREIGN KEY(ST ID) REFERENCES STAFF(ST ID)
CREATE TABLE MEDICINE(
 MED ID NUMBER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),
  MED_NAME VARCHAR2(40) NOT NULL,
  CONSTRAINT MED_PK PRIMARY KEY(MED_ID)
);
CREATE TABLE
  PATIENT_GIVEN_MEDICINE( MED_ID
  NUMBER,
  PERSON ID NUMBER,
 MED QTY NUMBER NOT NULL,
  CONSTRAINT PGM MED FK FOREIGN KEY(MED ID) REFERENCES MEDICINE(MED ID).
  CONSTRAINT PGM_PT_FK FOREIGN KEY(PERSON_ID) REFERENCES
PATIENT(PERSON_ID),
  CONSTRAINT PGM PK PRIMARY KEY(PERSON ID, MED ID)
CREATE TABLE
  DOC TREAT PATIENT( DOC ID
 NUMBER.
 PERSON_ID NUMBER,
  DISEASE VARCHAR2(30),
  DOC COMMENTS VARCHAR2(40).
  CONSTRAINT DTP_DOC_FK FOREIGN KEY(DOC_ID) REFERENCES DOCTOR(DOC_ID),
  CONSTRAINT DTP_PT_FK FOREIGN KEY(PERSON_ID) REFERENCES
PATIENT(PERSON_ID),
  CONSTRAINT DTP_PK PRIMARY KEY(DOC ID, PERSON ID)
);
CREATE TABLE
  ROOM(ROOM_ID NUMBER,
  ROOM_TYPE VARCHAR2(20),
  ROOM PRICE NUMBER(7, 3),
  ROOM_AVAILABLE NUMBER(1),
  CONSTRAINT ROOM PK PRIMARY KEY(ROOM ID).
  CONSTRAINT ROOM TYPE CH CHECK(ROOM TYPE IN ('SUITE', 'SINGLE', 'DELUXE'))
);
CREATE TABLE
 ALLOT_ROOM( PERSON_ID
 NUMBER,
  N ID NUMBER,
  ROOM ID NUMBER.
  ROOM CHECKIN DATE DEFAULT SYSDATE.
  ROOM CHECKOUT DATE.
```

```
CONSTRAINT AR_PT_FK FOREIGN KEY(PERSON_ID) REFERENCES
PATIENT(PERSON_ID),
  CONSTRAINT AR_N_FK FOREIGN KEY(N_ID) REFERENCES NURSE(N_ID),
  CONSTRAINT AR_PK PRIMARY KEY(PERSON_ID),
  CONSTRAINT ROOM ID FK FOREIGN KEY(ROOM ID) REFERENCES ROOM(ROOM ID)
);
CREATE TABLE BILL(
  BILL_ID NUMBER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),
  PERSON ID NUMBER.
  --DEPT_CHARGE NUMBER(5, 3),
  ROOM CHARGE NUMBER(7, 3),
  TREAT_CHARGE NUMBER(10, 3) DEFAULT 100,
  ADD CHARGE NUMBER(5, 3),
  BILL_TAX NUMBER(10, 3),
  BILL_ISSUE_DATE DATE DEFAULT SYSDATE,
  CONSTRAINT BILL_PK PRIMARY KEY(BILL_ID),
  CONSTRAINT BILL_FK FOREIGN KEY(PERSON_ID) REFERENCES PATIENT(PERSON_ID)
```

```
CREATE PROCEDURE PT CHECKIN(
 ID IN PERSON.PERSON_ID%TYPE,
  FULL_NAME IN PERSON.PERSON_FULL_NAME%TYPE,
  DOB IN PERSON.PERSON DOB%TYPE,
  EMAIL IN PERSON.PERSON EMAIL%TYPE.
 PHONE IN PERSON.PERSON PHONE%TYPE.
  GENDER IN PERSON.PERSON GENDER%TYPE.
  BLOOD GRP IN PERSON.PERSON BLOOD GROUP%TYPE
) IS
  PHONE INVALID EXCEPTION;
  DOB INVALID EXCEPTION;
  CHECK CONSTRAINT VIOLATED EXCEPTION;
  PRAGMA EXCEPTION_INIT(CHECK_CONSTRAINT_VIOLATED, -2290);
BEGIN
  IF SUBSTR(TO_CHAR(PHONE), 1, 1) NOT IN ('9', '8', '7', '6') THEN
    RAISE PHONE INVALID:
  ELSIF TRIM(TO_CHAR(DOB, 'YYYY')) < 1900 THEN
    RAISE DOB INVALID;
  ELSE
    INSERT INTO
    PERSON(
     PERSON ID.
     PERSON_FULL_NAME,
     PERSON DOB,
     PERSON_EMAIL,
     PERSON_PHONE
     PERSON_GENDER,
     PERSON BLOOD GROUP.
     PERSON ROLE
    VÁLUES(
     ID,
     FULL NAME,
     DOB.
     EMAIL,
     PHONE,
     GENDER,
     BLOOD GRP,
     'PT'
   INSERT INTO
    PATIENT(
     PERSON_ID
    VALUES(
     ID
  END IF;
EXCEPTION
  WHEN PHONE INVALID THEN
    DBMS OUTPUT.PUT LINE('PHONE NUMBER INVALID');
```

```
WHEN DOB INVALID THEN
    DBMS_OUTPUT.PUT_LINE('DOB INVALID');
 WHEN CHECK_CONSTRAINT_VIOLATED THEN
   DBMS_OUTPUT.PUT_LINE('*ERROR INSERTING*, CHECK YOUR INPUTS IN ROLE COL,
BLOOD GROUP. GENDER'):
END:
CREATE OR REPLACE PROCEDURE INSERT DOC(
 PID IN PERSON.PERSON_ID%TYPE,
 FULL NAME IN PERSON.PERSON FULL NAME%TYPE,
 DOB IN PERSON.PERSON DOB%TYPE.
 EMAIL IN PERSON.PERSON EMAIL%TYPE,
 PHONE IN PERSON.PERSON PHONE%TYPE,
 GENDER IN PERSON.PERSON_GENDER%TYPE
 BLOOD_GRP IN PERSON.PERSON_BLOOD_GROUP%TYPE,
 SAL IN STAFF.ST SALARY%TYPE,
 DATE OF JOIN IN STAFF.ST JOIN DATE%TYPE.
 EXPER IN STAFF.ST_YRS_EXPERIENCE%TYPE, QUALIF IN STAFF.ST_QUALIFICATION%TYPE,
 SPEC IN DOCTOR.DOC SPECIALITY%TYPE
) IS
 CHECK CONSTRAINT VIOLATED EXCEPTION;
 PRAGMA EXCEPTION INIT(CHECK CONSTRAINT VIOLATED, -2290);
 PHONE INVALID EXCEPTION;
 DOB_INVALID EXCEPTION;
 S ID STAFF.ST ID%TYPE:
BEGIN
 IF SUBSTR(TO_CHAR(PHONE), 1, 1) NOT IN ('9', '8', '7', '6') THEN
   RAISE PHONE_INVALID;
 ELSIF TRIM(TO CHAR(DOB, 'YYYY')) < 1900 THEN
   RAISE DOB INVALID;
 ELSE
   INSERT INTO
     PERSON( PERSON_ID,
     PERSON_FULL_NAME,
     PERSON DOB,
     PERSON EMAIL.
     PERSON PHONE,
     PERSON GENDER.
     PERSON_BLOOD_GROUP,
     PERSON ROLE
    VALUES(
     PID,
     FULL NAME,
     DOB.
     EMAIL.
     PHONE.
     GENDER.
     BLOOD GRP,
     'DOC'
   );
```

```
INSERT INTO
     STAFF( PERSON_ID,
     ST_SALARY,
     ST_JOIN_DATE,
     ST_YRS_EXPERIENCE,
     ST_QUALIFICATION
    VALUES(
     PID,
     SAL.
     DATE OF JOIN,
     EXPER.
     QUALIF
    SELECT ST_ID INTO S_ID FROM STAFF WHERE STAFF.PERSON_ID = PID;
    INSERT INTO DOCTOR(
     ST_ID,
     DOC SPECIALITY
    VALUES(
     S_ID,
     SPEC
 END IF:
EXCEPTION
 WHEN PHONE INVALID THEN
   DBMS OUTPUT.PUT LINE('PHONE NUMBER INVALID'):
 WHEN DOB INVALID THEN
    DBMS_OUTPUT.PUT_LINE('DOB INVALID');
 WHEN CHECK_CONSTRAINT_VIOLATED THEN
DBMS_OUTPUT.PUT_LINE('*ERROR INSERTING*, CHECK YOUR INPUTS!');
END:
CREATE OR REPLACE PROCEDURE
 INSERT NURSE( PID IN PERSON.PERSON ID%TYPE,
 FULL_NAME IN PERSON.PERSON_FULL NAME%TYPE.
 DOB IN PERSON.PERSON DOB%TYPE.
 EMAIL IN PERSON.PERSON EMAIL%TYPE
 PHONE IN PERSON.PERSON PHONE%TYPE.
 GENDER IN PERSON PERSON GENDER%TYPE,
 BLOOD GRP IN PERSON.PERSON BLOOD GROUP%TYPE.
 SAL IN STAFF.ST_SALARY%TYPE
 DATE_OF_JOIN IN STAFF.ST_JOIN_DATE%TYPE,
 EXPER IN STAFF.ST YRS EXPERIENCE%TYPE,
 QUALIF IN STAFF.ST QUALIFICATION%TYPE,
 SHIFT IN NURSE.N_SHIFT%TYPE
) IS
 CHECK_CONSTRAINT_VIOLATED EXCEPTION;
 PRAGMA EXCEPTION INIT(CHECK CONSTRAINT VIOLATED, -2290):
 PHONE INVALID EXCEPTION:
 DOB INVALID EXCEPTION:
```

```
S_ID STAFF.ST_ID%TYPE;
BEGIN
  IF SUBSTR(TO_CHAR(PHONE), 1, 1) NOT IN ('9', '8', '7', '6') THEN
    RAISE PHONE_INVALID;
  ELSIF TRIM(TO_CHAR(DOB, 'YYYY')) < 1900 THEN
    RAISE DOB INVALID;
  ELSE
    INSERT INTO
      PERSON( PERSON_ID,
      PERSON_FULL_NAME,
      PERSON_DOB,
      PERSON EMAIL.
      PERSON_PHONE,
      PERSON_GENDER,
      PERSON BLOOD GROUP,
      PERSON_ROLE
    VALUES(
      PID,
      FULL_NAME,
      DOB.
      EMAIL,
      PHONE.
      GENDER.
      BLOOD_GRP,
      'DOC'
   );
    INSERT INTO
      STAFF( PERSON ID.
      ST_SALARY,
      ST JOIN DATE,
      ST_YRS_EXPERIENCE,
ST_QUALIFICATION
    VALUES(
      PID,
      SAL,
      DATE_OF_JOIN,
      EXPER,
      QUALIÉ
    SELECT ST ID INTO S ID FROM STAFF WHERE STAFF. PERSON ID = PID;
    INSERT INTO NURSE(
      ST_ID,
      N_SHÍFT
    .
VALUES
      S ID,
      SHIFT
  EŃD IF;
```

```
EXCEPTION
  WHEN PHONE_INVALID THEN
   DBMS OUTPUT.PUT LINE('PHONE NUMBER INVALID');
  WHEN DOB INVALID THEN
   DBMS_OUTPUT.PUT_LINE('DOB INVALID');
  WHEN CHECK CONSTRAINT VIOLATED THEN
   DBMS_OUTPUT.PUT_LINE('*ERROR INSERTING*, CHECK YOUR INPUTS!');
END:
CREATE OR REPLACE PROCEDURE INSERT MEDICINE(
  MNAME IN MEDICINE.MED NAME%TYPE
) IS
  TOO_LARGE_EXCEP_VIOL EXCEPTION;
  PRAGMA EXCEPTION_INIT(TOO_LARGE_EXCEP_VIOL, -12899);
  NOT_NULL_VIOL EXCEPTION;
  PRAGMA EXCEPTION INIT(NOT NULL VIOL, -01400):
BEGIN
 INSERT INTO MEDICINE(
   MED NAME
  VALUES(
   MNAME
EXCEPTION
  WHEN TOO LARGE EXCEP VIOL THEN
   DBMS_OUTPUT.PUT_LINE('ENTERED NAME IS TOO LARGE.');
  WHEN NOT NULL VIOL THEN
    DBMS_OUTPUT.PUT_LINE('NAME CANNOT BE NULL');
END:
CREATE OR REPLACE PROCEDURE
  DOC TREATS PAT(PID IN NUMBER,
  DID IN NUMBER.
  MID IN NUMBER
  MQTY IN NUMBER.
 DIS IN VARCHAR2.
 DOC COMM IN VARCHAR2
) IS
  PCOUNT INT;
  MCOUNT INT:
 DCOUNT INT;
BEGIN
  SELECT COUNT(*) INTO PCOUNT FROM PATIENT WHERE PERSON ID = PID;
  SELECT COUNT(*) INTO MCOUNT FROM MEDICINE WHERE MED ID = MID;
  SELECT COUNT(*) INTO DCOUNT FROM DOCTOR WHERE DOC_ID = DID;
  IF PCOUNT <= 0 THEN
   DBMS OUTPUT.PUT LINE('NO PATIENT EXISTS');
  ELSIF DCOUNT <= 0 THEN
    DBMS_OUTPUT.PUT_LINE('NO DOCTOR EXISTS');
  ELSIF MCOUNT <= 0 THEN
   DBMS OUTPUT.PUT LINE('NO MEDICINE EXISTS');
```

```
ELSE
    INSERT INTO PATIENT_GIVEN_MEDICINE(
     MED ID,
     PERSON ID,
     MED QTY
    VALUES(
     MID,
     PID.
     MQTY
    INSERT INTO
     DOC_TREAT_PATIENT( DOC_ID,
     PERSON_ID,
     DISEASE,
     DOC_COMMENTS
    VALUES(
     DID.
      PID.
     DIS.
     DOC_COMM
  END IF:
END;
CREATE OR REPLACE PROCEDURE ROOM ALLOC(
 PID IN NUMBER.
 N ID IN NUMBER,
  -- R ID IN NUMBER.
  INDATE IN DATE.
  OUTDATE IN DATE
) IS
 PCOUNT INT:
 MCOUNT INT;
 DCOUNT INT;
 AVAIL INT;
 RID INT;
BEGIN
  SELECT COUNT(*) INTO PCOUNT FROM PATIENT WHERE PERSON ID = PID;
  SELECT COUNT(*) INTO AVAIL FROM ROOM WHERE ROOM_AVAILABLE = 1;
 IF PCOUNT <= 0 THEN
    DBMS_OUTPUT.PUT_LINE('NO PATIENT EXISTS');
  ELSIF AVAIL <= 0 THEN
    DBMS_OUTPUT.PUT_LINE('NO ROOM IS AVAILABLE');
  ELSE
    SELECT ROOM ID INTO RID FROM ROOM WHERE ROOM AVAILABLE = 1 FETCH
FIRST 1 ROW ONLY;
    INSERT INTO ALLOT_ROOM(
     PERSON ID.
     N ID.
      ROOM_ID,
```

```
ROOM CHECKIN.
     ROOM_CHECKOUT
   VALUES(
     PID.
     N ID.
     RID.
     INDATE.
     OUTDATE
   UPDATE ROOM SET ROOM_AVAILABLE=0 WHERE ROOM_ID=RID;
 END IF;
END;
CREATE OR REPLACE PROCEDURE DISP PT ROOM(PID IN NUMBER)
ROOM NO NUMBER:
PERSID NUMBER;
BEGIN
SELECT PERSON ID INTO PERSID FROM PATIENT WHERE PERSON ID=PID;
SELECT ALLOT ROOM.ROOM ID INTO ROOM NO FROM ROOM INNER JOIN ALLOT ROOM
ON ROOM.ROOM_ID=ALLOT_ROOM.ROOM_ID WHERE ALLOT_ROOM.PERSON_ID = PID;
DBMS OUTPUT.PUT_LINE('PATIENT IN ROOM '|| ROOM_NO);
EXCEPTION
 WHEN no data_found THEN
   dbms_output.put_line('PATIENT DOES NOT EXIST!!');
END:
CREATE OR REPLACE PROCEDURE DISCHARGE PT(PID IN NUMBER)
TEMP NUMBER;
BEGIN
SELECT ROOM ID INTO TEMP FROM ALLOT ROOM WHERE PERSON ID = PID;
UPDATE ALLOT ROOM SET ROOM CHECKOUT = SYSDATE WHERE PERSON ID=PID:
UPDATE ROOM SET ROOM AVAILABLE = 1 WHERE ROOM ID=(SELECT ROOM ID FROM
ALLOT ROOM WHERE PERSON ID = PID);
DBMS OUTPUT.PUT LINE('PATIENT DISCHARGED!');
EXCEPTION
 WHEN no_data_found THEN
   dbms_output.put_line('PATIENT DOES NOT EXIST!!');
END;
```

```
-- ALL DETAILS OF PATIENT
CREATE OR REPLACE VIEW DISP PATIENT AS
SELECT * FROM PERSON P1 NATURAL JOIN PATIENT WHERE P1.PERSON ROLE = 'PT';
-- ALL DETAILS OF DOCTOR
CREATE OR REPLACE VIEW DISP DOCTOR AS
SELECT * FROM PERSON P1 NATURAL JOIN STAFF WHERE P1.PERSON_ROLE = 'DOC';
--- TRIGGERS
CREATE OR REPLACE TRIGGER CREATE BILL
AFTER UPDATE OF ROOM AVAILABLE ON ROOM
FOR EACH ROW
BEGIN
IF: NEW.ROOM_AVAILABLE=1 THEN
 DBMS_OUTPUT.PUT_LINE('BILL ISSUE DATE '||SYSDATE);
DBMS_OUTPUT.PUT_LINE('PATIENT TREATMENT CHARGE IS - 200');
 DBMS_OUTPUT_PUT_LINE('TAX % = 5%');
END IF:
END:
CREATE TABLE LOGS(
  USER_ID NUMBER GENERATED ALWAYS AS IDENTITY(START WITH 1 INCREMENT BY
  USER NAME VARCHAR2(50),
  OPN VARCHAR2(50),
 PERSON_ID NUMBÉR,
  CONSTRAINT LOGS_FK FOREIGN KEY(PERSON_ID) REFERENCES
PERSON(PERSON ID)
);
CREATE OR REPLACE TRIGGER AI_LOGS
AFTER INSERT ON PERSON
FOR EACH ROW
DECLARE
  USERNAME VARCHAR2(50);
BEGIN
  SELECT USER INTO USERNAME FROM DUAL;
  INSERT INTO LOGS(
    USER NAME,
    OPN,
    PERSON ID
  VALUES(
    USERNAME.
    'INSERT'
    :NEW.PERSON ID
END;
```

--- CURSORS

```
CREATE OR REPLACE PROCEDURE CURS PT DOC(
  DID IN NUMBER
) IS
  CURSOR DISP_DOC_DETAILS IS
  SELECT PERSON FULL NAME FROM PERSON WHERE PERSON ID = (SELECT
PERSON ID FROM STAFF WHERE ST ID = (SELECT ST ID FROM DOCTOR WHERE
DOC ID = DID);
  CURSOR DISP_PT_DETAILS IS
  SELECT PERSON_FULL_NAME FROM PERSON WHERE PERSON_ID = (SELECT
PERSON_ID FROM DOC_TREAT_PATIENT WHERE DOC_ID = DID);
  DOC_NAME VARCHAR2(20):
  PT NAME VARCHAR2(20);
BEGIN
  OPEN DISP_DOC_DETAILS;
  LOOP
    FETCH DISP_DOC_DETAILS INTO DOC_NAME;
    EXIT WHEN DISP DOC DETAILS%NOTFOUND;
    DBMS_OUTPUT.PUT_LINE('DOCTOR NAME: '||DOC_NAME);
  END LOOP:
  CLOSE DISP DOC DETAILS;
  OPEN DISP PT DETAILS:
  LOOP
    FETCH DISP PT DETAILS INTO PT NAME:
    EXIT WHEN DISP PT DETAILS%NOTFOUND;
    DBMS_OUTPUT.PUT_LINE('PATIENT NAME: '||PT_NAME);
  END LOOP:
  CLOSE DISP PT DETAILS;
END;
       INSERTIONS
EXEC PT_CHECKIN(1,'PHALIT JOTWANI',TO_DATE('19-JAN-1990','DD-MM-
YYYY'), 'P001 @gmail.com', 9312465455, 'MALE', 'B+');
EXEC PT CHECKIN(4,'AARYAN AGGARWAL',TO DATE('19-JAN-2000','DD-MM-
YYYY'), 'P002 @gmail.com', 9312465005, 'MALE', 'A-');
EXEC PT_CHEČKIN(5,'SOURAV PATHAK',TO_DATE('30-MAY-2001','DD-MM-
YYYY'), 'P003 @gmail.com', 9312465400, 'MALE', 'B+'),
EXEC PT_CHECKIN(6, SURBHI SHARMA', TO_DATE('10-JAN-1999', 'DD-MM-
YYYY'), 'P004 @gmail.com', 9312465455, 'FEMALE', 'A+');
EXEC PT CHECKIN(9, 'SIMRAN KAUR', TO DATE('10-JAN-1960', 'DD-MM-
YYYY'), 'P005@gmail.com', 9310065405, 'FEMALE', 'O-');
EXEC PT CHECKIN(10, 'JASPREET SINGH', TO DATE('20-JAN-1969', 'DD-MM-
YYYY'), 'P006 @gmail.com', 9312465455, 'MALE', 'O+');
```

```
EXEC INSERT_NURSE(2,'SANKALP SHARMA',TO_DATE('20-FEB-2000','DD-MM-YYYY'),'N001 @gmail.com',9312465455,'MALE','A+',2000,TO_DATE('20-FEB-2020','DD-MM-YYYY'),2,'ABC EFGHI','DAY');

EXEC INSERT_NURSE(7,'SHIVANSH CHOPRA',TO_DATE('21-MAY-2001','DD-MM-YYYY'),'N002 @gmail.com',9312400455,'MALE','A-',3000,TO_DATE('20-MAY-2020','DD-MM-YYYY'),1,'AB EFGHIGH','DAY');

EXEC INSERT_DOC(3,'ARPAN SHARMA',TO_DATE('21-FEB-2000','DD-MM-YYYY'),'D001 @gmail.com',9312465855,'MALE','A+',10000,TO_DATE('20-FEB-2019','DD-MM-YYYY'),3,'MBBS','CARDIO');

EXEC INSERT_DOC(8,'RAM KUMAR',TO_DATE('10-FEB-1980','DD-MM-YYYY'),'D002 @gmail.com',9310065855,'MALE','A-',100000,TO_DATE('10-FEB-2000','DD-MM-YYYY'),3,'MBBS','ENDOCRINOLOGY');

SELECT * FROM PERSON;
SELECT * FROM STAFF;
SELECT * FROM NURSE;
```

---- ROOM ALLOCATION

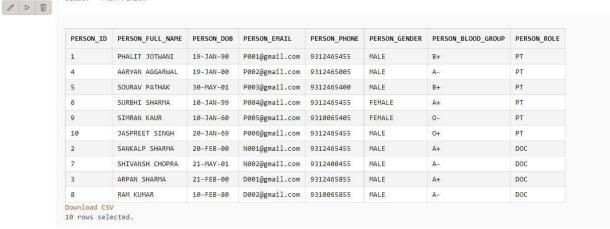
SELECT * FROM DOCTOR;

INSERT INTO ROOM VALUES(1,'SINGLE',500,1); INSERT INTO ROOM VALUES(2,'DELUXE',1500,1); INSERT INTO ROOM VALUES(3,'SUITE',2500,1); EXEC ROOM_ALLOC(1,1,SYSDATE,SYSDATE); EXEC ROOM_ALLOC(4,1,SYSDATE,SYSDATE); SELECT * FROM ALLOT_ROOM; EXEC DISP_PT_ROOM(1);

OUTPUT

Statement 36

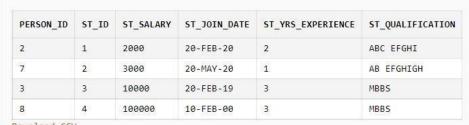
SELECT * FROM PERSON



Statement 37

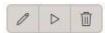


SELECT * FROM STAFF



Download CSV 4 rows selected.

Statement 38



SELECT * FROM NURSE

N_ID	ST_ID	N_SHIFT	
1	1	DAY	
2	2	DAY	

Download CSV

2 rows selected.

Statement 39



SELECT * FROM DOCTOR

ST_ID	DOC_ID	DOC_SPECIALITY
3	1	CARDIO
4	2	ENDOCRINOLOGY

Download CSV

2 rows selected.

Statement 47



SELECT * FROM ALLOT_ROOM

PERSON_ID	N_ID	ROOM_ID	ROOM_CHECKIN	ROOM_CHECKOUT
1	1	1	17-MAY-22	17-MAY-22
4	1	2	17-MAY-22	17-MAY-22

Download CSV

2 rows selected.

Statement 48

EXEC DISP_PT_ROOM(1)

Statement processed. PATIENT IN ROOM 1



Statement 53



SELECT * FROM LOGS

USER_ID	USER_NAME	NAME OPN	
1	APEX_PUBLIC_USER	INSERT	1
2	APEX_PUBLIC_USER	INSERT	4
3	APEX_PUBLIC_USER	INSERT	5
4	APEX_PUBLIC_USER	INSERT	6
5	APEX_PUBLIC_USER	INSERT	9
6	APEX_PUBLIC_USER	INSERT	10
7	APEX_PUBLIC_USER	INSERT	2
8	APEX_PUBLIC_USER	INSERT	7
9	APEX_PUBLIC_USER	INSERT	3
10	APEX_PUBLIC_USER	INSERT	8

Download CSV

10 rows selected.