

HOSPITAL MANAGEMENT DATABASE

TEAM MEMBERS

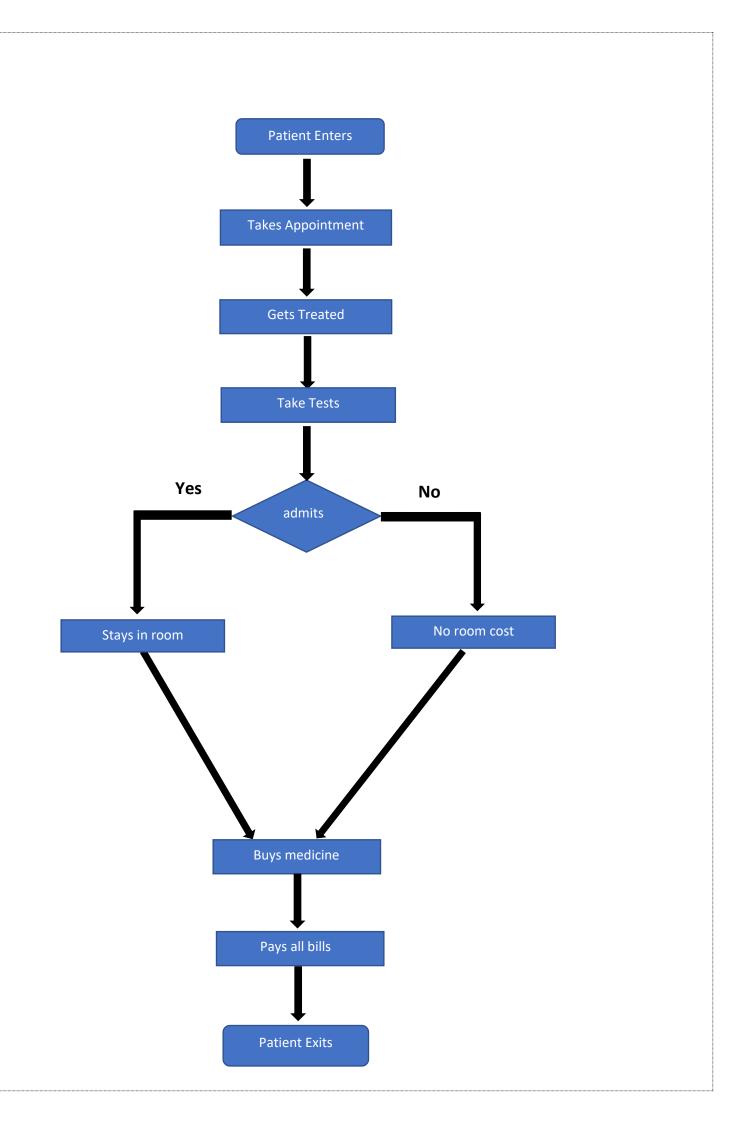
1.MAHITHA MARAM	В	197249
2.THANMAYEE POUNJULA	Α	197161
3.VENKATASAI MADDISETTY	В	197248

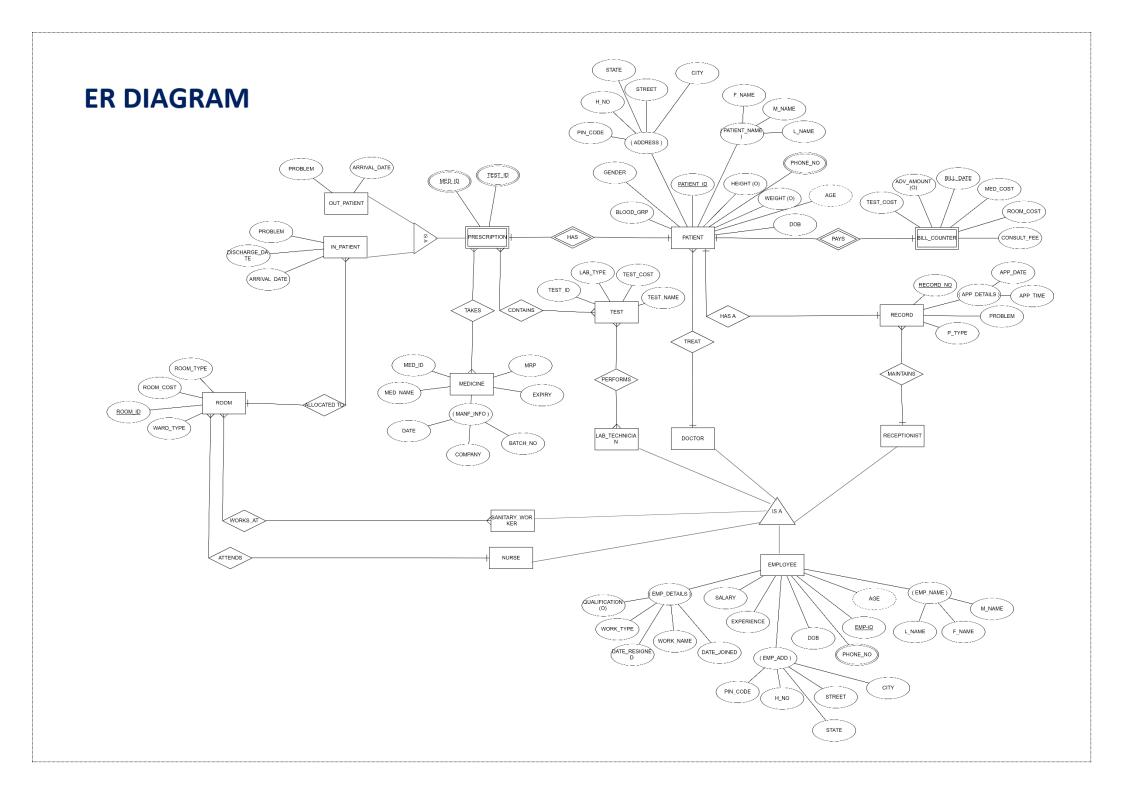
PROBLEM STATEMENT:

Our model represents a Hospital where our main aim is to keep a record of all the patients in the hospital, treatment they were prescribed (i.e tests, medicines and room if necessary), cost of the treatment, records of the employees and the work they are doing. This database helps ensure that all the records of both patients and employees are neatly organized and easily accessible.

OUR THOUGHT PROCESS:

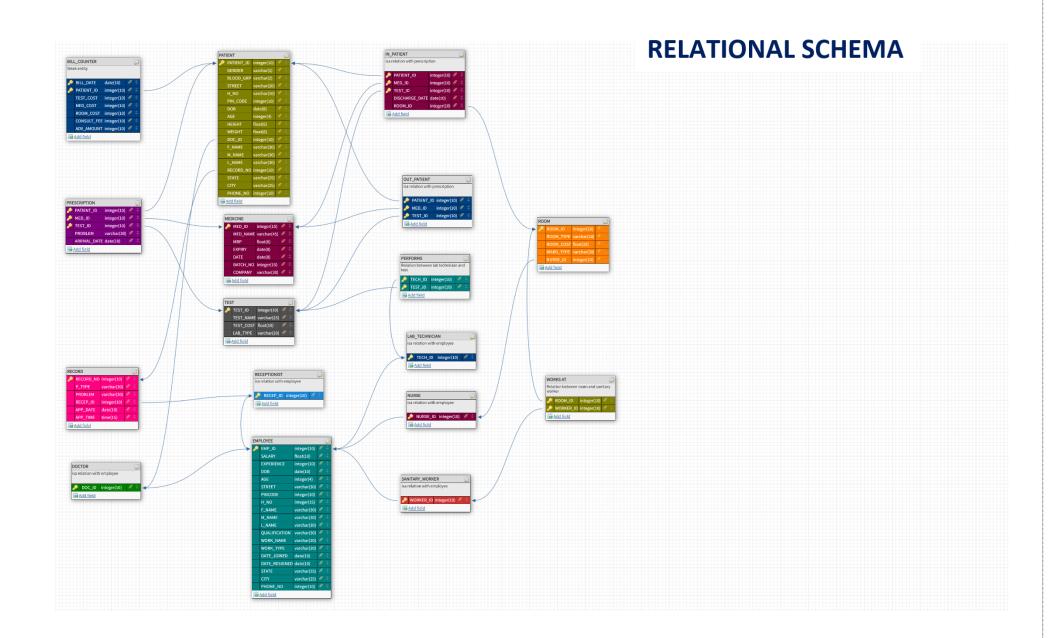
Patient enters a hospital and takes an appointment. He/She waits for his turn and then gets treated by the doctor. Then, he/she is provided with a prescription. According to prescription, he/she pays the bill and completes their treatment. And if it is mentioned in prescription that he/she needs to get admitted, they become in-patients and they are also expected to pay the room bill. All the payment is done at bill-counter where patient gives his patient_id and gets the details of his payment.





RELATIONSHIPS

SL.NO	ENTITY-1	ENTITY-2	RELATIONSHIP NAME	RELATIONSHIP TYPE	EXPLANATION
1.	PATIENT	BILL-COUNTER	PAYS	ONE TO ONE	A patient has only one bill to pay and a bill is addressed to a single patient.
2.	PATIENT	RECORD	HAS A	ONE TO ONE	A patient has only one row in record and one row in record is associated to a single patient.
3.	PATIENT	DOCTOR	TREAT	MANY TO ONE	A doctor can treat many patients but a patient gets treated by only one doctor.
4.	PATIENT	PRESCRIPTION	HAS	ONE TO ONE	A patient is prescribed a single prescription and a prescription is addressed to a single patient.
5.	RECORD	RECEPTIONIST	MAINTAINS	MANY TO ONE	One receptionist can handle many rows in a record but a single row in a record can't be handled by many receptionists.
6.	PRESCRIPTION	MEDICINE	TAKES	MANY TO MANY	One prescription can contain many medicines and one medicine can be in many prescriptions.
7.	PRESCRIPTION	TEST	CONTAINS	MANY TO MANY	One prescription can contain many tests and one test can be in many prescriptions.
8.	TEST	LAB_TECHNICIAN	PERFORMS	MANY TO MANY	One test can be performed by many lab-technicians and one lab-technician can perform many tests.
9.	IN_PATIENT	ROOM	ALLOCATED TO	MANY TO ONE	One room can be allotted to many patients but one patient can't be allotted to many rooms.
10.	ROOM	SANITARY_WORKER	WORKS_AT	MANY TO MANY	A sanitary worker can work at many rooms and a room can have many sanitary workers working.
11.	ROOM	NURSE	ATTEND	MANY TO ONE	A nurse can attend to many rooms but room can only be attended by one nurse



AFTER FIRST NORMAL FORM PATIENT_ID integer(10) LAB_TECHNICIAN PHONE_NO integer(12)

Functional Dependencies:

Patient:

- patient_id → (gender, blood_grp, street, h_no, pincode, dob, age, height, weight, doc_id, f_name, m_name, l_name)
- record_id → (gender, blood_grp, street, h_no, pincode, dob, age, height, weight, doc_id, f_name, m_name, l_name)
- pincode → (state, city)

Prescription:

(patient_id, med_id, test_id) → (problem, arrival_date)

Medicine:

med_id → (med_name, mrp, expiry, mfg_date, batch_no, company)

Record:

record_no → (p_type, problem, recep_id, app_date, app_time)

Test:

test_id → (test_name, test_cost, lab_type)

Bill_counter:

 (bill_date, patient_id) → (test_cost, med_cost, room_cost, consult_fee, adv_amount)

Employee:

- emp_id → (salary, experience, dob, age, street, pincode, h_no, f_name, m_name, l_naem, qualification, work_name, work_type, date_joined, date_resigned)
- pincode → (state, city)

Room:

room_id → (room_type, room_cost, ward_type, nurse_id)

Works at:

• PK=(room_id, worker_id)

Performs:

PK=(tech_id, test_id)

Doctor:

PK=doc_id

Receptionist:

• PK=recep_id

Nurse:

• PK=nurse_id

Sanitary_worker:

• PK=worker_id

In_patient:

• (patient_id, med_id, test_id)->(discharge_date, room_id)

Out_patient:

• PK=(patient_id, med_id, test_id)

NOTE: rest all tables in the schema diagram are multivalued attributes represented as tables (1st NF)***

Normal Forms:

1st NF:

- Atomic attributes: To ensure that all attributes are atomic,
- → for composite attributes, all it's components are included in the table. (address attribute in *Patient* and *Employee* tables).
- → for multivalued attributes, we maintained a separate table table(pat phone no the main with patient id referencing to referencing patient with emp id to emp phone no and referencing to employee)
 - <u>Uniqueness:</u> We made sure that every attribute in a table has a unique name and there are no repeated tuples

Thus, 1st NF is achieved.

2nd NF:

 <u>Partial dependency:</u> There is no relation with one of the proper subsets of the candidate keys functionally dependent on the nonprime attributes. Hence, there is no partial dependency in any of the relations.

As all relations are in 1^{st} NF and there is no partial dependency, we can say that the relational schema is already in 2^{nd} NF.

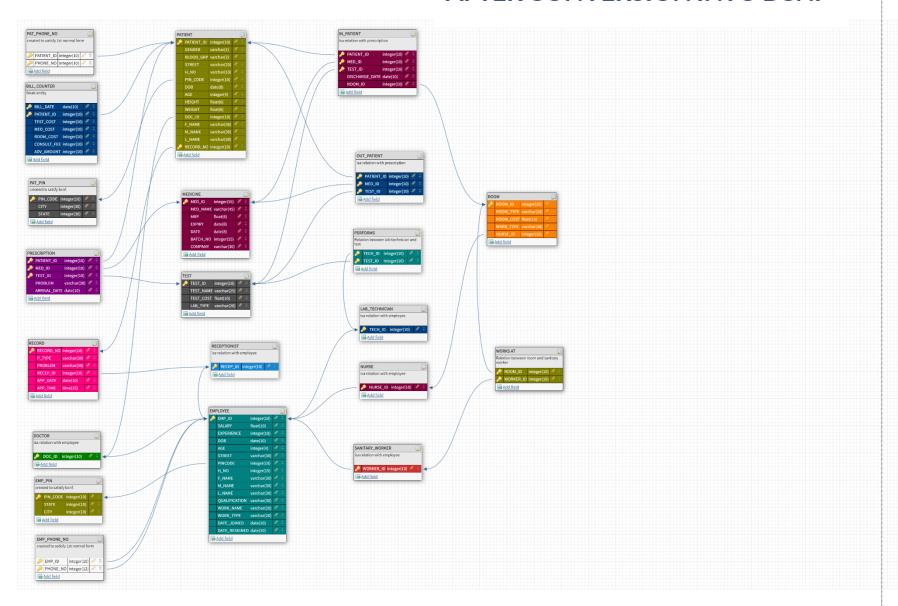
3rd NF:

• <u>Transitive dependency:</u> Except for *employee* and *patient* relations, there is no relation where there is a functional dependency between two non-prime attributes. I.e. only *employee* and *patient* relations are transitively dependent.

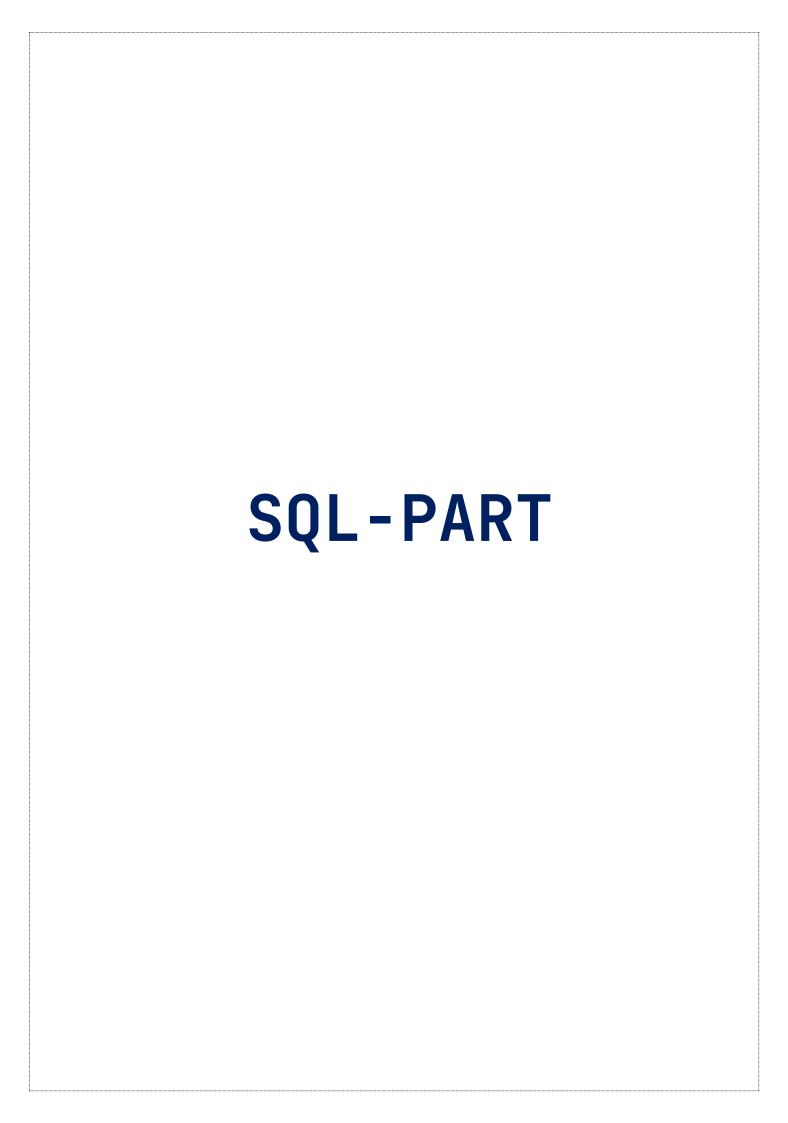
So, all relations except *employee* and *patient* are in 3rd NF. In *employee* and *patient* relations, we have a FD *pincode->(state, city)*. To convert it into 3rd normal form, we are creating a relation with *pincode* as primary key and *state* and *city* as the other two attributes. In the main table we referenced pincode attribute to the pincode from this table.

Hence, the relational schema is in now 3 rd NF.
BCNF:
Here, after converting the schema into 3 rd NF there are no relations with functional dependencies without their left hand side being a super key. So, the relational schema is in BCNF.

AFTER CONVERSION INTO BCNF



NOTE:
Before conversion into 1st NF, there are 17 relations in the schema. After conversion into 1st NF there are 19 relations. After conversion BCNF there are 21 relations.



```
CREATE TABLE PAT_PIN(
 PIN_CODE INT PRIMARY KEY,
 STATE VARCHAR(25),
 CITY VARCHAR(25)
);
INSERT INTO PAT_PIN VALUES(523102, 'KARNATAKA', 'BANGALORE');
INSERT INTO PAT_PIN VALUES(623001, 'TAMILNADU', 'CHENNAI');
INSERT INTO PAT_PIN VALUES(234502, 'WESTBENGAL', 'KOLKATA');
INSERT INTO PAT_PIN VALUES(214502 , 'RAJASTHAN', 'JAIPUR');
INSERT INTO PAT_PIN VALUES(515004, 'ANDHRA PRADESH', 'ANANTAPUR');
INSERT INTO PAT_PIN VALUES(523001, 'MAHARASTRA', 'MUMBAI');

⊕ PIN_CODE | ⊕ STATE

                                 ⊕ CITY
   1 523102 KARNATAKA
                                 BANGALORE
   2 623001 TAMILNADU
                                 CHENNAI
   3 234502 WESTBENGAL
                                 KOLKATA
   4 214502 RAJASTHAN
                                 JAIPUR
   5 515004 ANDHRA PRADESH ANANTAPUR
   6 523001 MAHARASTRA
                                 MUMBAT
--EMP_PIN:
CREATE TABLE EMP_PIN(
 PIN_CODE INT PRIMARY KEY,
 STATE VARCHAR(25),
 CITY VARCHAR(25)
);
INSERT INTO EMP_PIN VALUES(523102, 'KARNATAKA', 'BANGALORE');
INSERT INTO EMP_PIN VALUES(623001, 'TAMILNADU', 'CHENNAI');
INSERT INTO EMP_PIN VALUES(234502, 'WESTBENGAL', 'KOLKATA');
INSERT INTO EMP_PIN VALUES(214502 , 'RAJASTHAN', 'JAIPUR');
INSERT INTO EMP_PIN VALUES(515004, 'ANDHRA PRADESH', 'ANANTAPUR');
INSERT INTO EMP_PIN VALUES(523001, 'MAHARASTRA', 'MUMBAI');

⊕ PIN_CODE | ⊕ STATE

                                 ⊕ CITY
   1 523102 KARNATAKA
                                 BANGALORE
   2 623001 TAMILNADU
                                 CHENNAI
   3 234502 WESTBENGAL
                                 KOLKATA
   4 214502 RAJASTHAN
                                 JAIPUR
   5 515004 ANDHRA PRADESH ANANTAPUR
   6 523001 MAHARASTRA
                                 MUMBAI
```

```
--EMPLOYEE:
CREATE TABLE EMPLOYEE (
  EMP_ID INT PRIMARY KEY,
  SALARY NUMBER(8,2),
  EXPERIENCE INT,
  DOB DATE,
  AGE INT,
  STREET VARCHAR(30),
  PINCODE INT,
  H_NO VARCHAR(15),
  F_NAME VARCHAR(30),
  M_NAME VARCHAR(30),
  L_NAME VARCHAR(30),
  QUALIFICATION VARCHAR(30),
  WORK_NAME VARCHAR(20),
  WORK_TYPE VARCHAR(20),
  DATE_JOINED DATE,
  DATE_RESIGNED DATE,
  FOREIGN KEY (PINCODE)
  REFERENCES EMP_PIN(PIN_CODE)
);
INSERT INTO EMPLOYEE VALUES (101,100000,12,'01-MAR-
1972',49,'WALRMART STREET',523001,'42A','MANIKATHA','RAJU','UPPURI',
'MD', 'DOCTOR', 'PERMANENT', '23-MAR-2010', NULL);
INSERT INTO EMPLOYEE VALUES (102,100000,13,'01-APRIL-
1963',58,'VIP STREET',234502,'32B','RAJIV','KUMAR',' MUKHATI',
'MBBS', 'DOCTOR', 'PERMANENT', '23-JUNE-2015', NULL);
INSERT INTO EMPLOYEE VALUES (103,100000,24,'10-JAN-
1953',68,'HGT STRRET',623001,'34C','MAHENDHAR','RAJ','PATIYARI',
'MBBS', 'DOCTOR', 'TEMPORARY', '23-APR-2012', NULL);
INSERT INTO EMPLOYEE VALUES (104,102003,23,'10-FEB-
1956',65, 'MENG STREET',523102, '33A', 'RAHUL', 'KUMAR', 'JARUN',
'MBBS', 'DOCTOR', 'PERMANENT', '24-APR-2014', NULL);
INSERT INTO EMPLOYEE VALUES (105, 102323, 12, '10-JAN-
1960',61, 'NILMUK STREET',515004, '34A', 'RAJAN', 'KUMAR', 'IYYER',
'MBBS', 'DOCTOR', 'PERMANENT', '23-SEP-2020', NULL);
INSERT INTO EMPLOYEE VALUES (10001,10000,5,'01-APR-
1989',31,'NGO STREET',214502,'33B','PRIYA','KAPOOR','KHAN',
'B-TECH', 'RECEPTIONIST', 'PERMANENT', '15-APR-2016', NULL);
INSERT INTO EMPLOYEE VALUES (10002,12000,8,'01-APR-
1995',25,'SUBASH STREET',234502,'34B','PREETI','RAJ','PANJA',
'B-COM', 'RECEPTIONIST', 'PERMANENT', '04-APR-2014', NULL);
INSERT INTO EMPLOYEE VALUES (10003,11000,6,'19-AUG-
1993',27, 'HGT STREET',623001, '31A', 'SONY', 'VIKRAM', 'SINGH',
'B-TECH', 'RECEPTIONIST', 'TEMPORARY', '21-APR-2015', NULL);
```

```
INSERT INTO EMPLOYEE VALUES (10004,12000,7,'08-AUG-
1992',28,'MENG STREET',523102,'33C','MEHAK','RAJU','ACHARYA',
'B-COM', 'RECEPTIONIST', 'PERMANENT', '12-APR-2014', NULL);
INSERT INTO EMPLOYEE VALUES (10005,12500,7,'09-SEP-
1992',28,'VIP STREET',234502,'32D','ANSHU','DEV','AHUJA',
'B-TECH', 'RECEPTIONIST', 'PERMANENT', '09-APR-2014', NULL);
INSERT INTO EMPLOYEE VALUES (5001,15000,10,'09-SEP-
1984',36,'NGO STREET',214502,'32B','KAJAL','RAJ','MEHTA',
'M.SC', 'NURSE', 'PERMANENT', '05-APR-2011', NULL);
INSERT INTO EMPLOYEE VALUES (5002,14000,10,'15-SEP-
1984',36,'NULMUK STREET',515004,'34B','VENKAT','KUMAR','AHUJA',
'B.SC', 'NURSE', 'PERMANENT', '12-APR-2011', NULL);
INSERT INTO EMPLOYEE VALUES (5003,14500,11,'15-APR-
1985',35,'SUBASH STREET',234502,'39A','KEERTI','SURESH','IYYER',
'B.SC', 'NURSE', 'PERMANENT', '12-APR-2010', NULL);
INSERT INTO EMPLOYEE VALUES (5004,16000,12,'18-APR-
1984',36,'HGT STREET',623001,'39B','THANVI','RAJ','SHARMA',
'M.SC', 'NURSE', 'PERMANENT', '08-APR-2009', NULL);
INSERT INTO EMPLOYEE VALUES (5005,7000,1,'17-APR-
1984',36,'NGO STREET',214502,'39C','SATVIK','MUKESH','PATEL',
'B.SC', 'NURSE', 'TEMPORARY', '13-AUG-2020', NULL);
INSERT INTO EMPLOYEE VALUES (20001,20000,14,'18-JUN-
1982',38,'HGT STREET',623001,'40A','MANIKANTA','DEV','DARAM',
'B.SC(MLT)', 'LAB TECHNICIAN', 'PERMANENT', '09-AUG-2007', NULL);
INSERT INTO EMPLOYEE VALUES (20002,25000,14,'18-AUG-
1982',38,'VIP STREET',234502,'32M','RAMAN','KUMAR','ACHARYA',
'DMLT', 'LAB TECHNICIAN', 'PERMANENT', '09-JUN-2007', NULL);
INSERT INTO EMPLOYEE VALUES (20003,10000,1,'18-AUG-
1995',25,'MENG STREET',523102,'33M','KARTHIK','REDDY','KOTA',
'B.SC(MLT)', 'LAB TECHNICIAN', 'TEMPORARY', '04-APR-2020', NULL);
INSERT INTO EMPLOYEE VALUES (20004,15000,6,'19-AUG-
1987',33,'NULMUK STREET',515004,'34N','KARTHIK','RAJ','JOSHI',
'B.SC(MLT)', 'LAB TECHNICIAN', 'PERMANENT', '05-JUL-2015', NULL);
INSERT INTO EMPLOYEE VALUES (20005,17000,4,'14-APR-
1990',30,'SUBASH STREET',234502,'39P','KAVYA','RAJ','CHOWDARY',
'DMLT', 'LAB TECHNICIAN', 'PERMANENT', '05-APR-2017', NULL);
INSERT INTO EMPLOYEE VALUES (6001,5000,2,'19-APR-
1985',35,'WALMART STREET',523001,'42A','LINGAYYA','RAJU','PALEM',
NULL, 'SANITARY WORKER', 'PERMANENT', '08-APR-2019', NULL);
INSERT INTO EMPLOYEE VALUES (6002,7000,6,'19-AUG-
1989',31,'VIP STREET',234502,'41D','RAGAMMA','RAJU','DARAM',
NULL, 'SANITARY WORKER', 'PERMANENT', '09-APR-2015', NULL);
INSERT INTO EMPLOYEE VALUES (6003,7000,5,'19-APR-
1989',31,'HGT STREET',623001,'39N','KARTHIK','RAJ','AHUJA',
NULL, 'SANITARY WORKER', 'TEMPORARY', '09-APR-2016', NULL);
INSERT INTO EMPLOYEE VALUES (6004,8000,7,'19-SEP-
1988',32,'NGO STREET',214502,'40M','DEVANSH','KUMAR','MEHTA',
NULL, 'SANITARY WORKER', 'PERMANENT', '18-APR-2014', NULL);
INSERT INTO EMPLOYEE VALUES (6005,9000,8,'08-AUG-
1990',30,'HGT STREET',623001,'40N','RAJESH','DEV','PATEL',
NULL, 'SANITARY WORKER', 'PERMANENT', '13-APR-2013', NULL);
```

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12 01-03-72
                                             49 WALRMART STREET 523001 42A
        101 100000
                                                                                   MANIKATHA RAJU
                                                                                                        UPPURI
                                                                                                                                 DOCTOR
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                                                                                                                                                                              (null
        102 100000
103 100000
                             13 01-04-63
                                            58 VIP STREET
68 HGT STRRET
                                                                    234502 32B
                                                                                   RAJIV KUM
MAHENDHAR RAJ
                                                                                                KUMAR
                                                                                                        MUKHATI MBBS
PATIYARI MBBS
                                                                                                                                 DOCTOR
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TEMPORARY 23-04-12
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                             24 10-01-53
                                                                     623001 34C
                                                                                                                                                                              (null)
        104 102003
                             23 10-02-56
                                             65 MENG STREET
                                                                     52310233A
                                                                                   RAHUL
                                                                                                KUMAR
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                                                                                                                    MBBS
                                                                                                                                 DOCTOR
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                                                                                                                                                                              (null)
                            12 10-01-60
5 01-04-89
                                                                    515004 34A
214502 33B
                                                                                                                                 DOCTOR
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PERMANENT 15-04-16
                                                                                                                                                                              (null)
        105 102323
                                             61 NILMUK STREET
                                                                                   RAJAN
                                                                                                KIIMAR
                                                                                                        IYYER
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     10001 10000
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                                             31 NGO STREET
                                                                                                KAPOOR KHAN
                                                                                                                    B-TECH
                                                                                   PRIYA
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     10002
             12000
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                                             25 SUBASH STREET
                                                                    23450234B
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                                                                                                        PANJA
                                                                                                                    B-COM
                                                                                                                                 RECEPTIONIST
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                              619-08-93
708-08-92
                                                                                                                                                     TEMPORARY 21-04-15
PERMANENT 12-04-14
      10003
                                                                                                VIKRAM SINGH
                                             28 MENG STREET
                                                                                                                   B-COM
     10004
             12000
                                                                     523102 33C
                                                                                   MEHAK
                                                                                                RAJU
                                                                                                        ACHARYA
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     10005
                                             28 VIP STREET
36 NGO STREET
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KAJAL
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RAJ
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PERMANENT 05-04-11
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              12500
                              7 09-09-92
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                             1009-09-84
                                                                     214502 32B
      5002
              14000
                             1015-09-84
                                             36 NULMUK STREET
                                                                    51500434B
                                                                                   VENKAT
                                                                                                KUMAR
                                                                                                        AHUJA
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                                                                                                                                 NURSE
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                            11 15-04-85
12 18-04-84
1 17-04-84
      5003
5004
                                                                    234502 39A
623001 39B
                                                                                   KEERTI
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PERMANENT 08-04-09
             14500
                                             35 SUBASH STREET
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             16000
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                                                                                                                                                                              (null)
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PERMANENT 09-08-07
PERMANENT 09-06-07
       5005
               7000
                                             36 NGO STREET
                                                                     214502 39C
                                                                                   SATVIK
                                                                                                MUKESH PATEL
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14 18-08-82
                                             38 HGT STREET
38 VIP STREET
                                                                    623001 40A
234502 32M
     20001
             20000
                                                                                                                    B.SC(MLT)
                                                                                                                                 LAB TECHNICIAN
LAB TECHNICIAN
                                                                                                KUMAR
     20002
              25000
                                                                                   RAMAN
                                                                                                        ACHARYA
                                                                                                                    DMLT
                                                                                                                                                                              (null)
                                                                                                REDDY
                                                                                                                   B.SC(MLT)
B.SC(MLT)
     20003
              10000
                              118-08-95
                                             25 MENG STREET
                                                                     52310233M
                                                                                   KARTHIK
                                                                                                        KOTA
                                                                                                                                LAB TECHNICIAN
                                                                                                                                                     TEMPORARY 04-04-20
                                                                                                                                                                              (null)
                              619-08-87
414-04-90
                                             33 NULMUK STREET
                                                                                   KARTHIK
                                                                                                                                                     PERMANENT 05-07-15
PERMANENT 05-04-17
                                             30 SUBASH STREET
                                                                     23450239P
  20 20005
              17000
                                                                                   KAVYA
                                                                                                        CHOWDARY DMLT
                                                                                                                                 LAB TECHNICIAN
                                                                                                                                                                              (null)
      6001
                                                                                                                    (null)
                              2 19-04-85
6 19-08-89
                                                                                               RAJU
RAJU
                                                                                                                                 SANITARY WORKER PERMANENT 08-04-19
SANITARY WORKER PERMANENT 09-04-15
                                                                                                                                                                              (null)
               5000
                                             35 WALMART STREET
                                                                    523001 42A
                                                                                   LINGAYYA
                                                                                                        PALEM
                                                                     234502 41D
                                                                                                        DARAM
                                             31 VIP STREET
                                                                                   RAGAMMA
                                                                                                                                                                              (null)
                                                                                                                    (null)
                                                                                                                                 SANITARY WORKER TEMPORARY 09-04-16
SANITARY WORKER PERMANENT 18-04-14
  23
      6003
               7000
                              519-04-89
                                             31 HGT STREET
                                                                     623001 39N
                                                                                   KARTHIK
                                                                                                RAJ
                                                                                                        AHUJA
                                                                                                                    (null)
                                                                                                                                                                              (null)
                              8 08-08-90
                                                                    623001 40N
                                                                                                                                 SANITARY WORKER PERMANENT 13-04-13 (null)
      6005
                                            30 HGT STREET
                                                                                   RAJESH
                                                                                               DEV
                                                                                                        PATEL
                                                                                                                    (null)
--EMP_PHONE_NO:
CREATE TABLE EMP_PHONE_NO (
```

```
EMP_ID INT NOT NULL,
  PHONE_NO INT NOT NULL,
  FOREIGN KEY(EMP_ID) REFERENCES EMPLOYEE(EMP_ID),
  PRIMARY KEY(EMP_ID, PHONE_NO)
);
INSERT INTO EMP_PHONE_NO VALUES (101,9945201942);
INSERT INTO EMP_PHONE_NO VALUES (101,9946291942);
INSERT INTO EMP_PHONE_NO VALUES (102,9845201942);
INSERT INTO EMP_PHONE_NO VALUES (103,9945201941);
INSERT INTO EMP_PHONE_NO VALUES (103,9945201940);
INSERT INTO EMP_PHONE_NO VALUES (104,9945201842);
INSERT INTO EMP_PHONE_NO VALUES (105,9945101942);
INSERT INTO EMP_PHONE_NO VALUES (10001,9945211942);
INSERT INTO EMP_PHONE_NO VALUES (10002,9945221942);
INSERT INTO EMP_PHONE_NO VALUES (10002,9955201942);
INSERT INTO EMP_PHONE_NO VALUES (10003,9945201921);
INSERT INTO EMP_PHONE_NO VALUES (10004,9945201932);
INSERT INTO EMP_PHONE_NO VALUES (10005,9945201912);
INSERT INTO EMP_PHONE_NO VALUES (5001,9945121942);
INSERT INTO EMP_PHONE_NO VALUES (5001,9912201942);
INSERT INTO EMP_PHONE_NO VALUES (5002,9945201952);
INSERT INTO EMP_PHONE_NO VALUES (5003,8945201942);
INSERT INTO EMP_PHONE_NO VALUES (5004,9845201942);
INSERT INTO EMP_PHONE_NO VALUES (5005,9985201942);
INSERT INTO EMP_PHONE_NO VALUES (20001,9945201948);
INSERT INTO EMP_PHONE_NO VALUES (20002,9945201949);
INSERT INTO EMP_PHONE_NO VALUES (20003,9945201992);
INSERT INTO EMP_PHONE_NO VALUES (20004,9945208942);
INSERT INTO EMP_PHONE_NO VALUES (20005,9945901942);
INSERT INTO EMP_PHONE_NO VALUES (6001,7945201942);
INSERT INTO EMP_PHONE_NO VALUES (6002,9745201942);
INSERT INTO EMP_PHONE_NO VALUES (6002,7745201942);
INSERT INTO EMP_PHONE_NO VALUES (6003,9975201942);
INSERT INTO EMP_PHONE_NO VALUES (6004,9945201742);
INSERT INTO EMP_PHONE_NO VALUES (6005,9945201972);
INSERT INTO EMP_PHONE_NO VALUES (6005,9945201772);
```

4	EMP_ID	♦ PHONE_NO
1	101	9945201942
2	101	9946291942
3	102	9845201942
4	103	9945201941
5	103	9945201940
6	104	9945201842
7	105	9945101942
8	10001	9945211942
9	10002	9945221942
10	10002	9955201942
11	10003	9945201921
12	10004	9945201932
13	10005	9945201912
14	5001	9945121942
15	5001	9912201942
16	5002	9945201952
17	5003	8945201942
18	5004	9845201942
19	5005	9985201942
20	20001	9945201948
21	20002	9945201949
22	20003	9945201992
23	20004	9945208942
24	20005	9945901942
25	6001	7945201942
26	6002	9745201942
27	6002	7745201942
28	6003	9975201942
29	6004	9945201742
30	6005	9945201972

```
--DOCTOR:

CREATE TABLE DOCTOR (
    DOC_ID INT PRIMARY KEY,
    FOREIGN KEY(DOC_ID)
    REFERENCES EMPLOYEE(EMP_ID)

);
INSERT INTO DOCTOR VALUES (101);
INSERT INTO DOCTOR VALUES (102);
INSERT INTO DOCTOR VALUES (103);
INSERT INTO DOCTOR VALUES (104);
INSERT INTO DOCTOR VALUES (104);
INSERT INTO DOCTOR VALUES (105);
```

1	101
2	102
3	103
4	104
5	105

```
CREATE TABLE RECEPTIONIST (
   RECEP_ID INT PRIMARY KEY,
   FOREIGN KEY(RECEP_ID)
   REFERENCES EMPLOYEE(EMP_ID)
);
INSERT INTO RECEPTIONIST VALUES (10001);
INSERT INTO RECEPTIONIST VALUES (10002);
INSERT INTO RECEPTIONIST VALUES (10003);
INSERT INTO RECEPTIONIST VALUES (10004);
INSERT INTO RECEPTIONIST VALUES (10005);
```

	RECEP_ID
1	10001
2	10002
3	10003
4	10004
5	10005

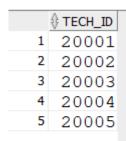
```
CREATE TABLE NURSE (
  NURSE_ID INT PRIMARY KEY,
  FOREIGN KEY(NURSE_ID)
  REFERENCES EMPLOYEE(EMP_ID)
);
INSERT INTO NURSE VALUES (5001);
INSERT INTO NURSE VALUES (5002);
INSERT INTO NURSE VALUES (5003);
INSERT INTO NURSE VALUES (5004);
INSERT INTO NURSE VALUES (5005);

⊕ NURSE_ID

   1
        5001
   2
        5002
   3
        5003
        5004
   4
   5
        5005
```

```
CREATE TABLE LAB_TECHNICIAN (
   TECH_ID INT PRIMARY KEY,
   FOREIGN KEY(TECH_ID)
   REFERENCES EMPLOYEE(EMP_ID)
);

INSERT INTO LAB_TECHNICIAN VALUES (20001);
INSERT INTO LAB_TECHNICIAN VALUES (20002);
INSERT INTO LAB_TECHNICIAN VALUES (20003);
INSERT INTO LAB_TECHNICIAN VALUES (20004);
INSERT INTO LAB_TECHNICIAN VALUES (20005);
```



```
CREATE TABLE SANITARY_WORKER (
   WORKER_ID INT PRIMARY KEY,
   FOREIGN KEY(WORKER_ID)
   REFERENCES EMPLOYEE(EMP_ID)
);

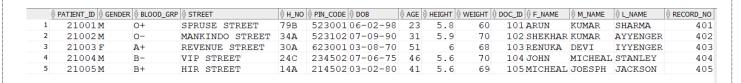
INSERT INTO SANITARY_WORKER VALUES (6001);
INSERT INTO SANITARY_WORKER VALUES (6002);
INSERT INTO SANITARY_WORKER VALUES (6003);
INSERT INTO SANITARY_WORKER VALUES (6004);
INSERT INTO SANITARY_WORKER VALUES (6005);
```

1	6001
2	6002
3	6003
4	6004
5	6005

```
--RECORD:
CREATE TABLE RECORD(
    RECORD_NO NUMBER(10),
    P_TYPE VARCHAR(30),
    PROBLEM VARCHAR(30),
    RECEP_ID NUMBER(10),
    APP_DATE DATE,
    APP_TIME VARCHAR(15),
    PRIMARY KEY(RECORD_NO)
);
DROP TABLE RECORD;
INSERT INTO RECORD VALUES(401, 'OUT', 'FEVER', 10001, '07-MAR-2021', '07:00:00');
INSERT INTO RECORD VALUES(402, 'IN', 'HYPOTHERMIA', 10002, '08-MAR-
2021', '10:00:00');
INSERT INTO RECORD VALUES(403, 'IN', 'STOMACH PAIN' , 10003 ,'09-MAR-
2021', '11:00:00');
INSERT INTO RECORD VALUES(404, 'OUT', 'HEAD ACHE' , 10004 ,'10-MAR-
2021' , '16:00:00');
INSERT INTO RECORD VALUES(405, 'IN', 'VITAMIN DEFICIENCY' ,10005 ,'11-MAR-
2021' , '19:00:00' );
```

	RECORD_NO	₱ P_TYPE		RECEP_ID	APP_DATE	APP_TIME
1	401	OUT	FEVER	10001	07-03-21	07:00:00
2	402	IN	HYPOTHERMIA	10002	08-03-21	10:00:00
3	403	IN	STOMACH PAIN	10003	09-03-21	11:00:00
4	404	OUT	HEAD ACHE	10004	10-03-21	16:00:00
5	405	IN	VITAMIN DEFICIENCY	10005	11-03-21	19:00:00

```
--PATIENT:
CREATE TABLE PATIENT (
 PATIENT_ID INT PRIMARY KEY,
 GENDER VARCHAR(1),
 BLOOD_GRP VARCHAR(2),
 STREET VARCHAR(20),
 H_NO VARCHAR(10),
 PIN_CODE INT,
 DOB DATE,
 AGE INT,
 HEIGHT NUMBER (10,4),
 WEIGHT NUMBER(10,4),
 DOC_ID INT,
 F_NAME VARCHAR(30),
 M_NAME VARCHAR(30),
 L_NAME VARCHAR(30),
 RECORD_NO NUMBER(10),
 FOREIGN KEY (PIN_CODE) REFERENCES PAT_PIN(PIN_CODE),
 FOREIGN KEY (DOC_ID) REFERENCES DOCTOR(DOC_ID),
 FOREIGN KEY (RECORD_NO) REFERENCES RECORD(RECORD_NO)
);
INSERT INTO PATIENT VALUES(21001 , 'M' ,'0+' , 'SPRUSE STREET ' , '79B' , 523001
 , '06-FEB-1998' , 23 , 5.8 , 60 , 101 , 'ARUN' , 'KUMAR' , 'SHARMA' , 401 );
INSERT INTO PATIENT VALUES(21002, 'M', '0-
', 'MANKINDO STREET', '34A', 523102, '07-SEP-
1990', 31, 5.9, 70, 102, 'SHEKHAR', 'KUMAR', 'AYYENGER', 402);
INSERT INTO PATIENT VALUES(21003, 'F' , 'A+' , 'REVENUE STREET' ,
                                                                  '30A' , 623001 ,
'03-AUG-1970', 51, 6.0,68, 103, 'RENUKA', 'DEVI', 'IYYENGER', 403);
INSERT INTO PATIENT VALUES(21004, 'M' , 'B-
', 'VIP STREET',
                             '24C' , 234502 , '07-JUN-
1975' , 46 , 5.6 ,70 , 104 , 'JOHN', 'MICHEAL', 'STANLEY', 404 );
INSERT INTO PATIENT VALUES(21005, 'M' , 'B+' , 'HIR STREET' ,
                                                                       '14A' , 2145
02 , '03-FEB-1980' , 41 , 5.6 ,69 , 105 , 'MICHEAL','JOESPH','JACKSON', 405 );
```



```
CREATE TABLE PAT_PHONE_NO(
    PATIENT_ID INT,
    PHONE_NO INT,
    PRIMARY KEY(PATIENT_ID, PHONE_NO),
    FOREIGN KEY (PATIENT_ID) REFERENCES PATIENT(PATIENT_ID)
);
INSERT INTO PAT_PHONE_NO VALUES(21001 ,9848364289);
INSERT INTO PAT_PHONE_NO VALUES(21001 ,9949223543);
INSERT INTO PAT_PHONE_NO VALUES(21003 ,3412312342);
INSERT INTO PAT_PHONE_NO VALUES(21004 ,1245244563);
INSERT INTO PAT_PHONE_NO VALUES(21005 ,1234212444);
```

	PATIENT_ID	
1	21001	9848364289
2	21001	9949223543
3	21003	3412312342
4	21004	1245244563
5	21005	1234212444

```
--MEDICINE:
CREATE TABLE MEDICINE(
    MED_ID INT PRIMARY KEY,
    MED_NAME VARCHAR(45),
    MRP NUMBER(10,4),
    EXPIRY DATE,
    MFG DATE,
    BATCH_NO INT,
    COMPANY VARCHAR (30)
);
INSERT INTO MEDICINE VALUES (34021, 'PARACETEMOL', 60.00, '23-DEC-2022', '23-DEC-
2021',200, 'GRANUELS INDIA LTD');
INSERT INTO MEDICINE VALUES(34022, 'CROCIN', 20.48, '21-JAN-2022', '23-FEB-
2021', 201, 'GLAXO SMITHKLINE');
INSERT INTO MEDICINE VALUES(34023, 'PEPTO BISMOL', 30.43, '21-JAN-2024', '21-MAR-
2021',202, 'THE PROCTOR AND GAMBLE COMPANY');
INSERT INTO MEDICINE VALUES(34024, 'IBUPROFEN', 23.23, '21-DEC-2023', '21-JAN-
2020',203,'ABBOTT LTD');
INSERT INTO MEDICINE VALUES(34025, 'HEALTH OK' ,150.32, '21-FEB-2024', '21-APR-
2023',204, 'MANKIND PRIVATE LIMITED');
```

```
INSERT INTO MEDICINE VALUES(34026, 'BETADINE' ,147, '26-FEB-2024', '20-APR-2023',205, 'SUN PHARMACEUTICAL');
INSERT INTO MEDICINE VALUES(34027, 'SSRI-ANTIDEPRESSANT' ,162.2, '21-FEB-2024', '21-APR-2023',206, 'CIPLA');
INSERT INTO MEDICINE VALUES(34028, 'ACETAMINOPHEN' ,187, '21-MAR-2024', '21-FEB-2023',207, 'DR. REDDYS LABS');
INSERT INTO MEDICINE VALUES(34029, 'Z0FRAN' ,126, '21-APR-2024', '21-MAR-2023',208, 'AUROBINDO PHARMA');
INSERT INTO MEDICINE VALUES(34030, 'OMNI GEL' ,50.32, '21-JUN-2024', '21-MAY-2023',209, 'LUPID LTD');
```

	MED_ID	∯ MRP			BATCH_NO	COMPANY
1	34021 PARACETEMOL	60	23-12-22	23-12-21	200	GRANUELS INDIA LTD
2	34022 CROCIN	20.48	21-01-22	23-02-21	201	GLAXO SMITHKLINE
3	34023 PEPTO BISMOL	30.43	21-01-24	21-03-21	202	THE PROCTOR AND GAMBLE COMPANY
4	34024 IBUPROFEN	23.23	21-12-23	21-01-20	203	ABBOTT LTD
5	34025 HEALTH OK	150.32	21-02-24	21-04-23	204	MANKIND PRIVATE LIMITED
6	34026 BETADINE	147	26-02-24	20-04-23	205	SUN PHARMACEUTICAL
7	34027 SSRI-ANTIDEPRESSANT	162.2	21-02-24	21-04-23	206	CIPLA
8	34028 ACETAMINOPHEN	187	21-03-24	21-02-23	207	DR. REDDYS LABS
9	34029 ZOFRAN	126	21-04-24	21-03-23	208	AUROBINDO PHARMA
10	34030 OMNI GEL	50.32	21-06-24	21-05-23	209	LUPID LTD

```
CREATE TABLE TEST(
    TEST_ID INT PRIMARY KEY,
    TEST_NAME VARCHAR(40),
    TEST_COST NUMBER(10,4),
    LAB_TYPE VARCHAR(40)
);

INSERT INTO TEST VALUES(1001, 'BLOOD_TEST',600,'CLINICAL LABORATORY');
INSERT INTO TEST VALUES(1002, 'COMMON COLD DIAGNOSIS',600, 'IMAGING LABORATORY');
INSERT INTO TEST VALUES(1003, 'SCANNING',1000, 'X RAY AND SCANNING LABORATORY');
INSERT INTO TEST VALUES(1004, 'COMPUTER TOMOGRAPHY', 1500, 'DIAGNOISIS LABORATORY');
INSERT INTO TEST VALUES(1005, 'METHYMALONIC ACID TEST', 1300, 'MEDICAL IMAGINE LABORATORY');
INSERT INTO TEST VALUES(1006, 'URINE TEST', 300, 'CLINICAL LABORATORY');
INSERT INTO TEST VALUES(1007, 'ENDOSCOPY', 3000, 'DIAGNOISIS LABORATORY');
```

	↑ TEST_ID	↑ TEST_COST
1	1001 BLOOD TEST	600 CLINICAL LABORATORY
2	1002 COMMON COLD DIAGNOSIS	600 IMAGING LABORATORY
3	1003 SCANNING	1000 X RAY AND SCANNING LABORATORY
4	1004 COMPUTER TOMOGRAPHY	1500 DIAGNOISIS LABORATORY
5	1005 METHYMALONIC ACID TEST	1300 MEDICAL IMAGINE LABORATORY
6	1006 URINE TEST	300 CLINICAL LABORATORY
7	1007 ENDOSCOPY	3000 DIAGNOISIS LABORATORY

```
CREATE TABLE PRESCRIPTION(
    PATIENT_ID INT,
    MED_ID INT,
    TEST_ID INT,
    PROBLEM VARCHAR(30),
    ARRIVAL_DATE DATE,
    PRIMARY KEY(PATIENT_ID, MED_ID, TEST_ID),
    FOREIGN KEY (PATIENT_ID) REFERENCES PATIENT(PATIENT_ID),
    FOREIGN KEY (MED_ID) REFERENCES MEDICINE(MED_ID),
    FOREIGN KEY (TEST_ID) REFERENCES TEST(TEST_ID)
);
INSERT INTO PRESCRIPTION VALUES (21001, 34021, 1001, 'FEVER', '17-SEP-2021');
INSERT INTO PRESCRIPTION VALUES(21002,34022,1002,'HYPOTHERMIA','18-SEP-2021');
INSERT INTO PRESCRIPTION VALUES(21003, 34023, 1003, 'STOMACH PAIN', '17-MAR-2021');
INSERT INTO PRESCRIPTION VALUES(21004,34024,1004,'HEAD ACHE','12-MAR-2021');
INSERT INTO PRESCRIPTION VALUES(21005,34025,1005,'VITAMIN DEFECIENCE','23-APR-2021');
INSERT INTO PRESCRIPTION VALUES(21005, 34026, 1006, 'VITAMIN DEFECIENCE', '23-APR-2021');
INSERT INTO PRESCRIPTION VALUES(21005,34027,1007,'VITAMIN DEFECIENCE','23-APR-2021');
INSERT INTO PRESCRIPTION VALUES(21003,34028,1004,'STOMACH PAIN','17-MAR-2021');
INSERT INTO PRESCRIPTION VALUES(21002,34029,1007,'HYPOTHERMIA','18-SEP-2021');
INSERT INTO PRESCRIPTION VALUES(21001,34030,1006,'FEVER','17-SEP-2021');
```

		MED_ID	TEST_ID		
1	21001	34021	1001	FEVER	17-09-21
2	21002	34022	1002	HYPOTHERMIA	18-09-21
3	21003	34023	1003	STOMACH PAIN	17-03-21
4	21004	34024	1004	HEAD ACHE	12-03-21
5	21005	34025	1005	VITAMIN DEFECIENCE	23-04-21
6	21005	34026	1006	VITAMIN DEFECIENCE	23-04-21
7	21005	34027	1007	VITAMIN DEFECIENCE	23-04-21
8	21003	34028	1004	STOMACH PAIN	17-03-21
9	21002	34029	1007	HYPOTHERMIA	18-09-21
10	21001	34030	1006	FEVER	17-09-21

```
-- ROOM --

CREATE TABLE ROOM(

ROOM_ID INT,

ROOM_TYPE VARCHAR(20),

ROOM_COST NUMBER(10,2),

WARD_TYPE VARCHAR(30),

NURSE_ID INT,

FOREIGN KEY( NURSE_ID ) REFERENCES NURSE( NURSE_ID),

PRIMARY KEY(ROOM_ID)

);

INSERT INTO ROOM VALUES( 4001 , 'MULITBED', 1000 , 'GENERAL' , 5001 );

INSERT INTO ROOM VALUES( 4002 , 'SINGLE' , 3000 , 'EMERGENCY' , 5002 );

INSERT INTO ROOM VALUES( 4003 , 'DOUBLE' , 2500 , 'HIGH DEPENDENCY', 5003 );

INSERT INTO ROOM VALUES( 4004 , 'SINGLE' , 1500 , 'INTENSIVE CARE' , 5004 );

INSERT INTO ROOM VALUES( 4005 , 'DOUBLE' , 2000 , 'FIRST AID' , 5005 );

SELECT * FROM ROOM;
```

	⊕ ROOM_ID	ROOM_TYPE			NURSE_ID
1	4001	MULITBED	1000	GENERAL	5001
2	4002	SINGLE	3000	EMERGENCY	5002
3	4003	DOUBLE	2500	HIGH DEPENDENCY	5003
4	4004	SINGLE	1500	INTENSIVE CARE	5004
5	4005	DOUBLE	2000	FIRST AID	5005

```
--INPATIENT--
CREATE TABLE IN_PATIENT(
   PATIENT_ID INT,
   MED_ID INT ,
   TEST_ID INT ,
   DISCHARGE_DATE DATE,
   ROOM_ID INT,
   PRIMARY KEY( PATIENT_ID , MED_ID , TEST_ID ),
   FOREIGN KEY (PATIENT_ID) REFERENCES PATIENT(PATIENT_ID),
   FOREIGN KEY (MED_ID) REFERENCES MEDICINE(MED_ID),
   FOREIGN KEY (TEST_ID) REFERENCES TEST(TEST_ID)
);
INSERT INTO IN_PATIENT VALUES( 21002 , 34022 , 1002 , '19-SEP-2021' , 4002 );
INSERT INTO IN_PATIENT VALUES( 21003 , 34023 , 1003 ,
                                                     '20-MAR-2021' , 4003 );
INSERT INTO IN_PATIENT VALUES( 21005 , 34025 , 1005 , '25-APR-2021' , 4005 );
INSERT INTO IN_PATIENT VALUES( 21002 , 34029 , 1007 , '19-SEP-2021' , 4002 );
INSERT INTO IN_PATIENT VALUES( 21003 , 34028 , 1004 , '20-MAR-2021' , 4003 );
INSERT INTO IN_PATIENT VALUES( 21005 , 34026 , 1006 , '25-APR-2021' , 4005 );
INSERT INTO IN_PATIENT VALUES( 21005 , 34027 , 1007 , '25-APR-2021' , 4005 );
SELECT * FROM IN_PATIENT;

♦ PATIENT_ID | ♦ MED_ID | ♦ TEST_ID | ♦ DISCHARGE_DATE | ♦ ROOM_ID |

        21002 34022
                          1002 19-09-21
   1
                                                  4002
         21003 34023
                          1003 20-03-21
                                                  4003
   3
        21005 34025
                          1005 25-04-21
                                                  4005
        21002 34029
                          100719-09-21
                                                  4002
        21003 34028
                          1004 20-03-21
                                                  4003
        21005 34026 1006 25-04-21
   6
                                                  4005
```

4005

```
--OUT-PATINET--
CREATE TABLE OUT_PATIENT(

PATIENT_ID INT,
MED_ID INT ,
TEST_ID INT ,
PRIMARY KEY( PATIENT_ID , MED_ID , TEST_ID ),
FOREIGN KEY (PATIENT_ID) REFERENCES PATIENT(PATIENT_ID),
FOREIGN KEY (MED_ID) REFERENCES MEDICINE(MED_ID),
FOREIGN KEY (TEST_ID) REFERENCES TEST(TEST_ID)

);
```

21005 34027 1007 25-04-21

7

```
INSERT INTO OUT_PATIENT VALUES( 21001 , 34021 , 1001 );
INSERT INTO OUT_PATIENT VALUES( 21004 , 34024 , 1004 );
INSERT INTO OUT_PATIENT VALUES( 21001 , 34030 , 1006 );
SELECT * FROM OUT_PATIENT;
```

```
--WORKS_AT--
CREATE TABLE WORKS_AT(

ROOM_ID INT,
WORKER_ID INT,
PRIMARY KEY( ROOM_ID , WORKER_ID ),
FOREIGN KEY( ROOM_ID ) REFERENCES ROOM(ROOM_ID),
FOREIGN KEY( WORKER_ID ) REFERENCES SANITARY_WORKER( WORKER_ID )

;

INSERT INTO WORKS_AT VALUES( 4001 , 6001 );
INSERT INTO WORKS_AT VALUES( 4002 , 6002 );
INSERT INTO WORKS_AT VALUES( 4003 , 6003 );
INSERT INTO WORKS_AT VALUES( 4004 , 6004 );
INSERT INTO WORKS_AT VALUES( 4004 , 6004 );
INSERT INTO WORKS_AT VALUES( 4005 , 6005 );
SELECT * FROM WORKS_AT;
```

	ROOM_ID	₩ORKER_ID
1	4001	6001
2	4002	6002
3	4003	6003
4	4004	6004
5	4005	6005

```
--PERFORMS---
CREATE TABLE PERFORMS(
    TECH_ID INT,
    TEST_ID INT,
    PRIMARY KEY( TECH_ID , TEST_ID ),
    FOREIGN KEY( TECH_ID ) REFERENCES LAB_TECHNICIAN( TECH_ID ),
    FOREIGN KEY( TEST_ID ) REFERENCES TEST( TEST_ID )
);
INSERT INTO PERFORMS VALUES ( 20001 , 1001 );
INSERT INTO PERFORMS VALUES ( 20002 , 1002 );
INSERT INTO PERFORMS VALUES ( 20003 , 1003 );
INSERT INTO PERFORMS VALUES ( 20004 , 1004 );
INSERT INTO PERFORMS VALUES ( 20005 , 1005 );
INSERT INTO PERFORMS VALUES ( 20002 , 1006 );
INSERT INTO PERFORMS VALUES ( 20003 , 1007 );
SELECT * FROM PERFORMS;
```

		TEST_ID
1	20001	1001
2	20002	1002
3	20003	1003
4	20004	1004
5	20005	1005
6	20002	1006
7	20003	1007

```
--BILL_COUNTER--

CREATE TABLE BILL_COUNTER(

BILL_DATE DATE,

PATIENT_ID INT,

TEST_COST NUMBER(10,2),

MED_COST NUMBER(10,2),

ROOM_COST NUMBER(10,2),

CONSULT_FEE NUMBER(10,2),

ADV_AMOUNT NUMBER(10,2),

PRIMARY KEY( BILL_DATE , PATIENT_ID ),

FOREIGN KEY( PATIENT_ID ) REFERENCES PATIENT( PATIENT_ID )

);
```

```
INSERT INTO BILL_COUNTER VALUES( '17-SEP-
2021' , 21001 , 900 , 110.32 , 0 , 300 , 500 );
INSERT INTO BILL_COUNTER VALUES( '19-SEP-
2021' , 21002 , 3600 , 146.48 , 3000 , 700 , 5000 );
INSERT INTO BILL_COUNTER VALUES( '20-SEP-
2021' , 21003 , 2500 , 217.43 , 2500 , 500 , 4500 );
INSERT INTO BILL_COUNTER VALUES( '12-MAR-
2021' , 21004 , 1500 , 23.3 , 0 , 600 , 1000 );
INSERT INTO BILL_COUNTER VALUES( '25-APR-
2021' , 21005 , 1900 , 459.52 , 2000 , 500 , 2000 );
SELECT * FROM BILL_COUNTER;
```

	BILL_DATE		TEST_COST	∯ MED_COST	ROOM_COST	CONSULT_FEE	∯ ADV_AMOUNT
1	17-09-21	21001	900	110.32	0	300	500
2	19-09-21	21002	3600	146.48	3000	700	5000
3	20-09-21	21003	2500	217.43	2500	500	4500
4	12-03-21	21004	1500	23.3	0	600	1000
5	25-04-21	21005	1900	459.52	2000	500	2000

______ *****************