



Subject – Database Management System

Project Report

1) Project Title:

Hospital Management System

2) Group number, Team members with their ID's and Email id:

Group Number: 12

Group member details:

<u>Name</u>	<u>Roll No</u>	<u>Email id</u>
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3) Project Description:

- Objective & motivation:

Many hospitals use a manual system for the management and maintenance of critical information. The current system requires numerous paper forms, with data stores spread throughout the hospital management infrastructure. Often information is incomplete, or does not follow management standards. Forms are often lost in transit between departments requiring a comprehensive auditing process to ensure that no vital information is lost. Multiple copies of the same information exist in the hospital and may lead to inconsistencies in data in various data stores.

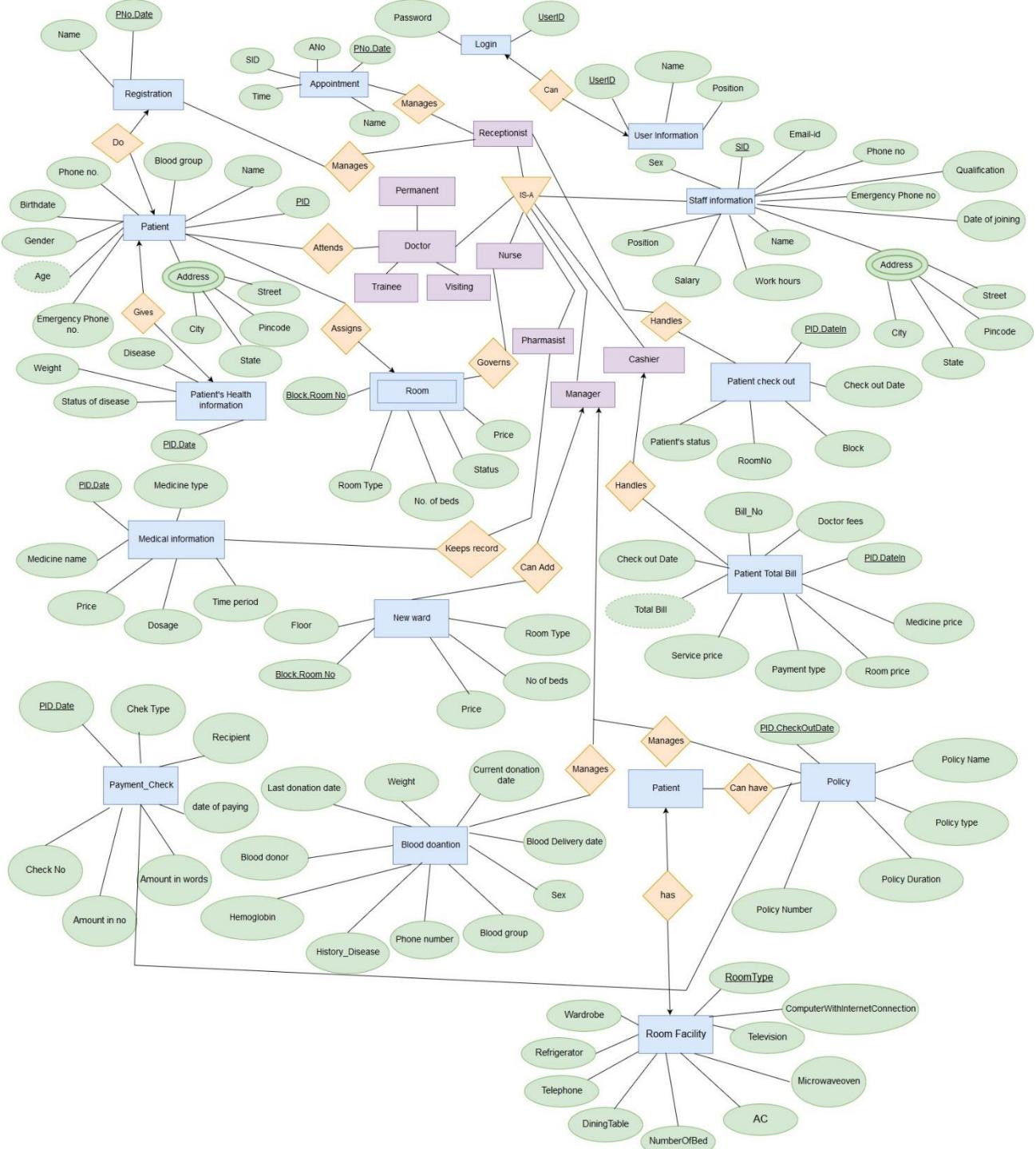
- Overview:

Hospital management system is a multibuilding hospital. The project aims to manage the hospital easily and keep the record of patients and to improve overall operational excellence at healthcare facilities by enhancing the patient experience. Our system helps to manage a seamless flow of patients right from an initial entry point to check out. The system is basically for the staff member's usage. They can login in the system by their own id and password. The system contains staff information, User information, Registration, Appointment details, Patient's personal information, Patient's health information, medicine details of patient, Room which were allocated for the patients and details of the room, patient check out details, total bill of every patients containing medicine fee, doctor fees, service fees, Room price and also the type of billing (check, cash or policy through payment).

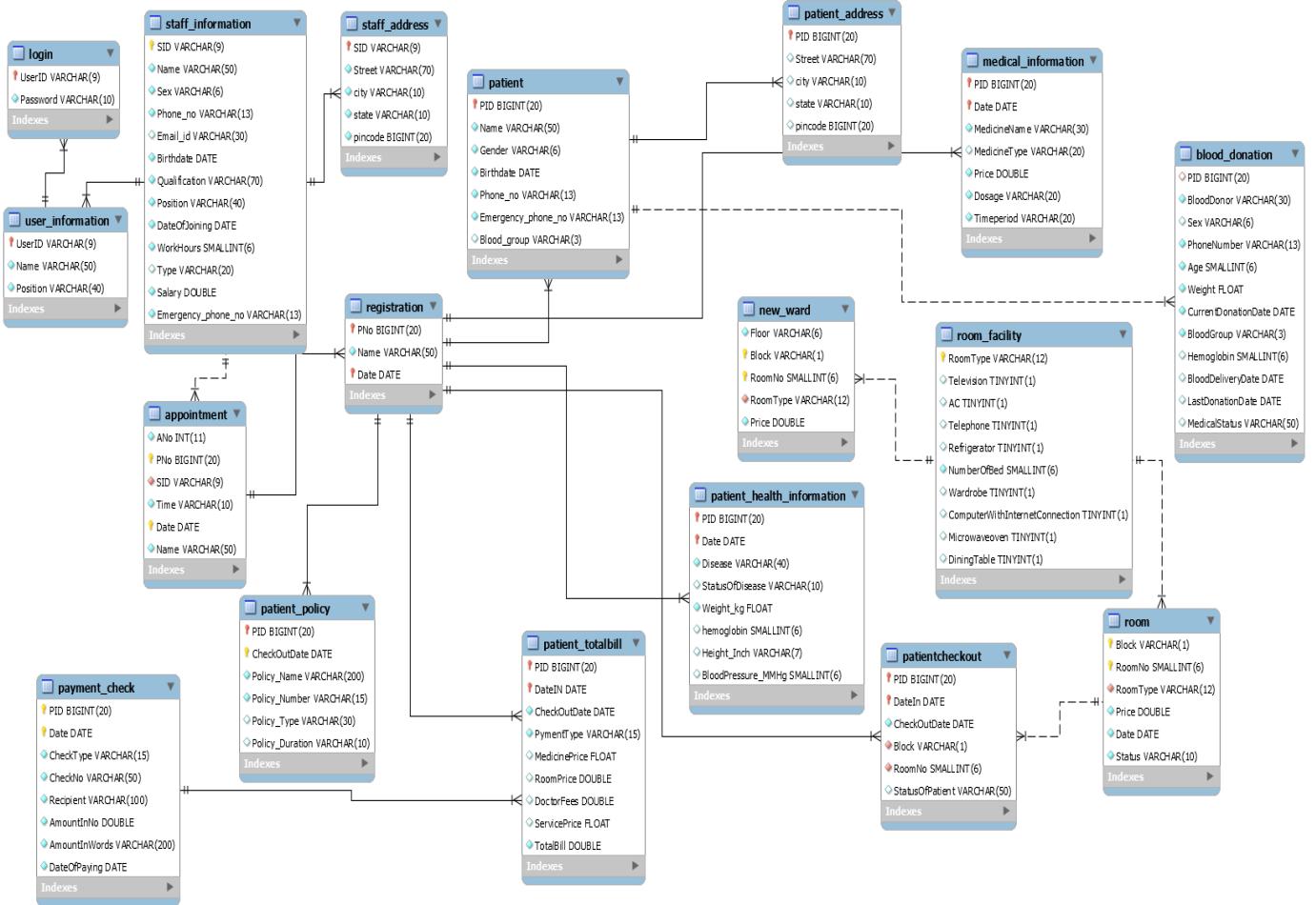
- Assumptions:

- In our project, we are considering database for managing the hospital. We are considering Doctor, Nurse, Manager, Pharmacist, Cashier, Receptionist can login in to System by their unique I'd and password.
- Receptionist gives appointment and register the patient in hospital. Manager manages new ward information, blood donation part, patient policy details. Doctor treats the patients, there are 3 kind of doctor- trainee, visiting, permanent. Nurse takes care of patients and keep room information. Cashier keeps track of patient's bill. Pharmacist handles the medicine details of patients.
- Login is valid for only who are the users of hospital.
- For staff, I'd we are considering data type varchar (9) in such a way that first 4 letters are for year in which the staff member had joined the hospital than 2 letters for their position and the last 3 letters for the I'd number.
 - For first 4 letters of year we are considering the year in which person joins the hospital.
 - Here, the position in 2 letter means Doctor as Dr, Nurse as Nu, Manager as Mr, Pharmacist as Ph, Cashier as Ca, Receptionist as Re, Sweeper Sw, Watchman Wa.
- We are considering that once the patient registered in the hospital the unique I'd will be given to the patient than if after some time patient again visits to the hospital then the I'd will be same so that we can know the past history of that patient.
- Here, we are considering the room no and block combine as a primary key like block can be A or B or C than the primary key will be A-304 so that we can easily found that which room is located to which patient.
- For Patient Name, Staff member's name and blood donor name we are considering Name contains First name, middle name and last name.
- For staff member's salary, we assume salary per month.
- In our project patient checkout contains only those details which patients are admitted here for more than 1 day.
- In Room type, Type Suite's price is 1000Rs, Type Executive's price is 2000Rs, Type Deluxe's price is 700Rs by their room facilities.
- We are considering 3 types of doctor: trainee, visiting, permanent.

4) ER diagram:



5) Entity Relation Model:



- Relational Database Schema including tables, attributes of each table, Primary key, secondary keys, foreign keys, constraints etc.

1) Entity login:

Attributes	Datatype	Constraints
User ID	Varchar (9)	Primary Key
Password	Varchar (10)	Not null

2) Entity User information:

Attributes	Datatype	Constraints
User ID	Varchar (9)	Primary Key
Name	Varchar (50)	Not null
Position	Varchar (40)	Not null

3) Entity Staff information:

Attributes	Datatype	Constraints
SID	Varchar (9)	Primary key
Name	Varchar (50)	Not null
Sex	Varchar (6)	Not null
Phone number	Varchar (13)	Not null
Email Id	Varchar (30)	
Birthday	Date	Not null
Qualification	Varchar (70)	Not null
Position	Varchar (40)	Not null
Date of joining	Date	Not null
Work hours	Small integer	Not null
Type	Varchar (20)	
Salary	Double	Not null
Emergency phone number	Varchar (13)	Not null

4) Entity staff address:

Attributes	Data type	Constraints
SID	Varchar (9)	Primary Key
Street	Varchar (70)	Not null
city	Varchar (10)	Not null
state	Varchar (10)	Not null
Pin code	Big integer	

5) Entity Registration:

Attributes	Data type	Constraints
PNo, Date	Big integer, Date	Primary Key
Name	Varchar (50)	Not null

6) Entity Appointment:

Attributes	Data type	Constraints
ANo	Integer	Not null
PNo, Date	Big integer, Date	Primary Key
SID	Varchar (9)	Not null
Time	Varchar (10)	Not null
Name	Varchar (50)	Not null

7) Entity Patient information:

Attributes	Datatype	Constraints
PID	Big integer	Primary key
Name	Varchar (50)	Not null
Gender	Varchar (6)	Not null
Birthdate	Date	Not null
Phone number	Varchar (13)	Not null
Emergency Phone number	Varchar (13)	Not null
Blood group	Varchar (3)	

8) Entity Patient Address:

Attributes	Datatype	Constraints
PID	Big integer	Primary Key
Street	Varchar (70)	
City	Varchar (10)	
State	Varchar (10)	
Pin code	Big integer	

9) Entity Patient Health Information:

Attributes	Datatype	Constraints
PID, Date	Big integer, Date	Primary Key
Disease	Varchar (40)	Not null
Status of Disease	Varchar (10)	
Weight kg	Float	Not null
Hemoglobin	Small integer	
Height Inch	Varchar (7)	
Blood Pressure in MM Hg	Small integer	

10) Entity Patient Medical Information:

Attributes	Datatype	Constraints
PID	Big integer	Primary Key
Date	Date	Primary Key
Medicine Name	Varchar (30)	Not null
Medicine Type	Varchar (20)	
Price	Double	Not null
Dosage	Varchar (20)	Not null
Time Period	Varchar (20)	Not null

11) Entity Room:

Attributes	Datatype	Constraints
Block, Room No	Varchar (1), Small integer	Primary Key
Room Type	Varchar (12)	Not null
Price	Double	Not null
Date	Date	Not null
Status	Varchar (10)	Not null

12) Entity New Ward:

Attributes	Datatype	Constraints
Floor	Varchar (6)	Not null
Block, Room No	Varchar (1), Small integer	Primary Key
Room Type	Varchar (12)	Not null
Price	Double	Not null

13) Entity Room Facility:

Attributes	Datatype	Constraints
Room Type	Varchar (12)	Primary key
Television	Boolean	
AC	Boolean	
Telephone	Boolean	
Refrigerator	Boolean	
Number of Bed	Small integer	Not null
Computer with Internet Connection	Boolean	
Wardrobe	Boolean	
Microwave oven	Boolean	
Dining Table	Boolean	

14) Entity Patient Checkout:

Attributes	Datatype	Constraints
PID, Date In	Big integer, Date	Primary Key
Check Out Date	Date	Not null
Block	Varchar (1)	Not null
Room No	Small integer	Not null
Status of Patient	Varchar (50)	

15) Entity Patient Total Bill:

Attributes	Datatype	Constraints
PID, Date IN	Big integer, Date	Primary Key
Check out Date	date	Not null
Payment Type	Varchar (15)	Not null
Medicine Price	float	
Room Price	double	
Doctor Fees	double	
Service Price	float	
Bill No	Big integer	Unique key, Not null
Total Bill	double	Not null

16) Entity Payment cheque:

Attributes	Attributes	Constraints
PID, Date	Big integer, Date	Primary Key
Cheque No	Varchar (50)	Unique Key, Not null
chequeType	Varchar (25)	Not null
Recipient	Varchar (100)	Not null
Amount in No	Double	Not null
Amount in words	Varchar (200)	Not null
Date of paying	Date	

17) Entity Patient Policy:

Attributes	Datatype	Constraints
PID, Check Out Date	Big integer, Date	Primary Key
Policy Name	Varchar (200)	Not Null
Policy Number	Varchar (15)	Not Null
Policy Type	Varchar (30)	
Policy Duration	Varchar (10)	

18) Entity Blood donation:

Attributes	Datatype	Constraints
PID	Big integer	
Blood Donor Name	Varchar (30)	Not null
Sex	Varchar (6)	
Phone Number	Varchar (13)	Not null
Age	Small integer	Not null
Weight	Float	Not null
Current Donation Date	Date	Not null
Blood group	Varchar (3)	Not null
Hemoglobin	Small integer	
Blood Delivery Date	Date	
Last Donation Date	Date	
Medical Status	Varchar (50)	

- **Normalized form of tables:**

❖ **BCNF:**

- All the tables in our database schema are in BCNF. If primary key is derived from candidate key, then it is not in BCNF.
- In our case, there is no way to derive primary key from candidate key. So, all tables in our database is in BCNF form.

❖ **3NF:**

- Because of in BCNF tables are also in 3NF form. This form dictates that all **non-key** attributes of a table must be functionally dependent on a candidate key i.e. there can be no interdependencies among non-key attributes.
- For a table to be in 3NF, there are two requirements
 - The table should be second normal form
 - No attribute is transitively dependent on the primary key.

For example, wherever there is address field, we include attributes like city, street, pin code, state. So, we make different table of address and PID/SID as primary key. Because from city we can get state, pin code etc.

❖ **2NF:**

- Because of in BCNF tables are also in 2nd NF. It is true in our case because all candidate keys depend on whole primary key.

- Examples:

1. Table Patient

Key : {PID}

Scheme : {PID, Name, Gender, Birthdate, Phone_no, Emergency_phone_no, Blood_group}

Functional dependency : {Name, Gender, Birthdate, Phone_no, Emergency_phone_no, Blood_group} {PID}

2. Table login

Key : {User_ID}

Scheme : {Password}

Functional dependency : {Password} {User_ID}

❖ **1NF:**

- Tables are in BCNF so, automatically they are in 1st NF. In 1st NF there should scalar values only. Multiple values not allowed.
- In our case in address field there are many items like street, city, state, pin code so we make them scalar.
- Any staff member can have more than one phone no. So, we made 2 different fields for phone number. One is phone number and another is emergency phone number.

1. MySQL Codes for Creating Database and inserting Database:

```
CREATE SCHEMA hospital_management_system_project;
USE hospital_management_system_project;
```

1) Table Login:

```
create table login (
    UserID          varchar (9),
    Password        varchar (10) Not null,
    primary key(UserID));
```

```

INSERT INTO login VALUES ('1998Dr001','Apple');
INSERT INTO login VALUES ('2000Nu013','ingi013');
INSERT INTO login VALUES ('2000Mr100','abc');
INSERT INTO login VALUES ('2001Ca067','Money$');
INSERT INTO login VALUES ('2014Ph056','Me007');
INSERT INTO login VALUES ('2014Re007','Work');
INSERT INTO login VALUES ('2001Dr082','123456');
INSERT INTO login VALUES ('2015Dr038','DrNene');
INSERT INTO login VALUES ('2016Nu019','111');
INSERT INTO login VALUES ('2014Re056','neha123');
INSERT INTO login VALUES ('2009Dr022','DrPatel');
INSERT INTO login VALUES ('2010Dr001','96017$$');
INSERT INTO login VALUES ('2012Dr087','!VarMa@');

```

	UserID	Password
▶	1998Dr001	Apple
	2000Mr 100	abc
	2000Nu013	ingi013
	2001Ca067	Money\$
	2001Dr082	123456
	2009Dr022	DrPatel
	2010Dr001	96017\$\$
	2012Dr087	!VarMa@
	2014Ph056	Me007
	2014Re007	Work
	2014Re056	neha123
	2015Dr038	DrNene
	2016Nu019	111
*	NULL	NULL

2) Table User_information:

```

create table User_information(
    UserID      varchar (9),
    Name        varchar (50) Not null,
    Position    varchar (40) Not null,
    primary key(UserID)
);

```

```
INSERT INTO User_information VALUES ('2001Ca067','Mukesh Roy','Cashier');
INSERT INTO User_information VALUES ('2014Ph056','Dinesh Jain',
'Pharmacist');
INSERT INTO User_information VALUES ('2014Re007','Mayank Shukla',
'Receptionist');
INSERT INTO User_information VALUES ('2001Dr082','RohitKumar Shah',
'Doctor(Cardiologist)');
INSERT INTO User_information VALUES ('2015Dr038','Shriram Madhav Nene',
'Doctor(MBBS)');
INSERT INTO User_information VALUES ('1998Dr001','Keyusha Patel',
'Doctor(Dentist)');
INSERT INTO User_information VALUES ('2000Nu013','Shah Saloni Krunalbhai'
'Nurse');
INSERT INTO User_information VALUES ('2000Mr100','Piyush Patel',
'Manager');
INSERT INTO User_information VALUES ('2016Nu019','Parmar Rita
Mukeshbhai','Nurse');
INSERT INTO User_information VALUES ('2014Re056','Jesika Sharma',
'Receptionist');
INSERT INTO User_information VALUES ('2009Dr022','Kashyap Patel','Doctor
(Gynaecologist)');
INSERT INTO User_information VALUES ('2010Dr001','Neel Sharma','Doctor
(Neurological surgeon)');
INSERT INTO User_information VALUES ('2012Dr087','Pankti varma','Doctor
(Pain management specialist)');
```

	User ID	Name	Position
▶	1998Dr001	Keyusha Patel	Doctor(Dentist)
	2000Mr100	Piyush Patel	Manager
	2000Nu013	Shah Saloni Krunalbhai	Nurse
	2001Ca067	Mukesh Roy	Cashier
	2001Dr082	RohitKumar Shah	Doctor(Cardiologist)
	2009Dr022	Kashyap Patel	Doctor(Gynaecologist)
	2010Dr001	Neel Sharma	Doctor(Neurological surgeon)
	2012Dr087	Pankti varma	Doctor(Pain management specialist)
	2014Ph056	Dinesh Jain	Pharmacist
	2014Re007	Mayank Shukla	Receptionist
	2014Re056	Jesika Sharma	Receptionist
	2015Dr038	Shriram Madhav Nene	Doctor(MBBS)
	2016Nu019	Parmar Rita Mukeshbhai	Nurse
*	HULL	HULL	HULL

3) Table Staff_information:

```
create table staff_information(
    SID                      varchar(9),
    Name                     varchar(50) Not null,
    Sex                      varchar(6) Not null,
    Phone_no                 varchar(13) Not null,
    Email_id                 varchar(30) ,
    Birthdate                Date Not null,
    Qualification            varchar(70) Not null,
    Position                 varchar(40) Not null,
    DateOfJoining            date Not null,
    WorkHours                smallint Not null,
    Type                     varchar (20),
    Salary                   double Not null,
    Emergency_phone_no      varchar(13) Not null,
    primary key(SID)
);
```

INSERT INTO staff_information VALUES ('2001Ca067','Mukesh Roy','Male',9825321151,'mukeshroy067@gmail.com','1975-02-14','High school diploma and three years experience of job at SIMS hospital','Cashier','2001-12-13',12,null,20000,9959868743);

INSERT INTO staff_information VALUES ('2014Ph056','Dinesh Jain','Male',8238057413,'DJ11@yahoo.in','1992-08-13','M.Pharm','Pharmacist','2014-06-23',12,null,25500,9876543215);

INSERT INTO staff_information VALUES ('2014Re007','Mayank Shukla','Male',9601739976,'Mayank@gmail.com','1990-12-11','High school diploma and on the job training','Receptionist','2014-07-15',14,null,14500,814165291);

INSERT INTO staff_information VALUES ('2001Dr082','RohitKumar Shah','Male',8460391597,'RShukla\$\$00@gmail.com','1965-07-14','Masters of Cardiologist(MD)','Doctor(Cardiologist)','2001-10-05',9,'trainee',119442,9658349552);

INSERT INTO staff_information VALUES ('2015Dr038','Shriram Madhav Nene','Male',9925987092,'Nene.Dr@outlook.com','1991-10-17','Masters of child specialist(MD) doing from civil college','Doctor(MBBS)','2015-11-13',14,'permanent',100999,854278963);

INSERT INTO staff_information VALUES ('1998Dr001','Keyusha Patel','Female',8141269822,'Keyushapatel4@yahoo.com','1958-06-12','Masters of Dental Science','Doctor(Dentist)','1998-08-04',12,'permanent',25999,8562479134);

INSERT INTO staff_information VALUES ('2000Nu013','Shah Saloni Krunalbhai','Female',7600946936,'Saloni76Shah@office.club','1975-05-06','Nursing (ADN) and 4 year job experience at SAL hospital','Nurse','2000-05-21',7,null,19700,9467125834);

INSERT INTO staff_information VALUES ('2000Mr100','Piyush Patel','Male',9925481099,'pp%4199@gmail.com','1979-02-23','Bachelor of

Science in Health Administration','Manager','2000-09-22',6,null,53000,8457961234);

INSERT INTO staff_information VALUES ('2016Nu019','Parmar Rita Mukeshbhai','FeMale',9978407136,'RitaM!!@gmail.com','1991-01-01','Nursing (ADN)','Nurse','2016-03-15',7,null,19700,9476812349);

INSERT INTO staff_information VALUES ('2014Re056','Jesika Sharma','Female',9558848811,'Jesika\$#12@gmail.com','1988-06-16','High school diploma','Receptionist','2014-01-14',14,null,14500,9945712361);

INSERT INTO staff_information VALUES ('2000Sw001','Kamlesh Thakker','Male',9601737623,null,'1985-05-26','7th pass','Sweeper','2000-08-17',10,null,6500,8697412305);

INSERT INTO staff_information VALUES ('2008Wa008','Raju Shah','Male',8165488996,null,'1993-12-23','S.S.C','Watchman','2008-09-16',12,null,11500,9687412388);

INSERT INTO staff_information VALUES ('2010Sw045','Jyoti Desai','Female',9978496354,null,'1996-09-08','9th pass','Sweeper','2010-02-11',10,null,6500,9968741230);

INSERT INTO staff_information VALUES ('2007Wa082','Shyam Dalal','Male',9428919219,null,'1994-11-16','S.S.C','Watchman','2007-07-27',12,null,12500,7645891230);

INSERT INTO staff_information VALUES ('2009Dr022','Kashyap Patel','Male',9865741236,'Kashyap@yahoo.in','1979-10-07','M.D. in Gynaecology','Doctor(Gynaecologist)','2009-03-23',12,'permanent',120000,8866554793);

INSERT INTO staff_information VALUES ('2010Dr001','Neel Sharma','Male',9865347215,'Neel098@outlook.com','1978-12-13','M.D. in Neurology','Doctor(Neurological surgeon)','2010-10-10',8,'visiting',140000,9823764512);

```
INSERT INTO staff_information VALUES ('2012Dr087','Pankti
varma','Female',9685741236,'DrPankti@yahoo.co.in','1987-11-14','M.D. in
Pain management','Doctor(Pain management specialist)','2012-01-
03',12,'permanent',100000,8859742365);
```

SID	Name	Sex	Phone_no	Email_id	Birthdate	Qualification	Position	DateOfJoining	WorkHrs	Type	Salary
1998Dr001	Keyusha Patel	Female	8141269822	Keyushapatel4@yahoo.com	1958-06-12	Masters of Den...	Doctor(Dentist)	1998-08-04	12	permanent	25999
2000Mr100	Piyush Patel	Male	9925481099	pp%4199@gmail.com	1979-02-23	Bachelor of Sci...	Manager	2000-09-22	6	NULL	53000
2000Nu013	Shah Saloni Kr...	Female	7600946936	Saloni76Shah@office.club	1975-05-06	Nursing (ADN) ...	Nurse	2000-05-21	7	NULL	19700
2000Sw001	Kamlesh Thakker	Male	9601737623	NULL	1985-05-26	7th pass	Sweeper	2000-08-17	10	NULL	6500
2001Ca067	Mukesh Roy	Male	9825321151	mukeshroy067@gmail.com	1975-02-14	High school dipl...	Cashier	2001-12-13	12	NULL	20000
2001Dr082	RohitKumar S...	Male	8460391597	RShukla\$00@gmail.com	1965-07-14	Masters of Car...	Doctor(Cardioolo...	2001-10-05	9	trainee	119442
2007Wa082	Shyam Dalal	Male	9428919219	NULL	1994-11-16	S.S.C	Watchman	2007-07-27	12	NULL	12500
2008Wa008	Raju Shah	Male	8165488996	NULL	1993-12-23	S.S.C	Watchman	2008-09-16	12	NULL	11500
2009Dr022	Kashyap Patel	Male	9865741236	Kashyap@yahoo.in	1979-10-07	M.D. in Gynaec...	Doctor(Gynaec...	2009-03-23	12	permanent	120000
2010Dr001	Neel Sharma	Male	9865347215	Neel098@outlook.com	1978-12-13	M.D. in Neurology	Doctor(Neurolo...	2010-10-10	8	visiting	140000
2010Sw045	Jyoti Desai	Female	9978496354	NULL	1996-09-08	9th pass	Sweeper	2010-02-11	10	NULL	6500
2012Dr087	Pankti varma	Female	9685741236	DrPankti@yahoo.co.in	1987-11-14	M.D. in Pain ma...	Doctor(Pain ma...	2012-01-03	12	permanent	100000
2014Ph056	Dinesh Jain	Male	8238057413	DJ11@yahoo.in	1992-08-13	M.Pharm	Pharmacist	2014-06-23	12	NULL	25500
2014Re007	Mayank Shukla	Male	9601739976	Mayank@gmail.com	1990-12-11	High school dipl...	Receptionist	2014-07-15	14	NULL	14500
2014Re056	Jesika Sharma	Female	9558848811	Jesika\$#12@gmail.com	1988-06-16	High school dipl...	Receptionist	2014-01-14	14	NULL	14500
2015Dr038	Shriram Madh...	Male	9925987092	Nene.Dr@outlook.com	1991-10-17	Masters of child...	Doctor(MBBS)	2015-11-13	14	permanent	100999
2016Nu019	Parmar Rita M...	FeMale	9978407136	RitaM!!@gmail.com	1991-01-01	Nursing (ADN)	Nurse	2016-03-15	7	NULL	19700
*											

4) Table staff_address:

```
create table staff_address(
SID          varchar(9),
Street        varchar(70) Not null,
city          varchar(10) Not null,
state         varchar(10) Not null,
pincode       bigint Not null,
primary key(SID)
);
```

```
INSERT INTO staff_address VALUES ('2001Ca067','14-pushpkunj
bunglows,science city','Ahmedabad','Gujarat',380060);
```

INSERT INTO staff_address VALUES ('2014Ph056','Alap green city ,raiya road','Rajkot','Gujarat',360005);

INSERT INTO staff_address VALUES ('2014Re007','Shubhlakhsni complex,Ram nagar road','Surat','Gujarat',370021);

INSERT INTO staff_address VALUES ('2001Dr082','E-402 indraprasth-8,thaltej ','Ahmedabad','Gujarat',380054);

INSERT INTO staff_address VALUES ('2015Dr038','11/3 darshan society,Paldi','Ahmedabad','Gujarat',380060);

INSERT INTO staff_address VALUES ('1998Dr001','21-chankya Tower,Vastrapur','Ahmedabad','Gujarat',380010);

INSERT INTO staff_address VALUES ('2000Nu013','402 Diamond apartment ,shaduvavani road ','Rajkot','Gujarat',360005);

INSERT INTO staff_address VALUES ('2000Mr100','16,Shyamrang society,ghatlodia','Ahmedabad','Gujarat',380050);

INSERT INTO staff_address VALUES ('2016Nu019',' 1/A Shantiniketan society,kalavad road ','Rajkot','Gujarat',360013);

INSERT INTO staff_address VALUES
('2014Re056','Narayanfarm,kashibag','Surat','Gujarat',370015);

INSERT INTO staff_address VALUES ('2000Sw001','A-101 Surrise park society,Gurukul','Ahmedabad','Gujarat',380042);

INSERT INTO staff_address VALUES ('2008Wa008','B-001 Shantinagar society,alap evenue','Rajkot','Gujarat',360005);

```
INSERT INTO staff_address VALUES  
('2010Sw045','shriharipark,naranpura','Ahmedabad','Gujarat',380060);
```

```
INSERT INTO staff_address VALUES ('2007Wa082','3 shivdarshan  
society,science city','Ahmedabad','Gujarat',380050);
```

```
INSERT INTO staff_address VALUES ('2009Dr022','01 Golden homes,Science  
city','Ahmedabad','Gujarat',380060);
```

```
INSERT INTO staff_address VALUES ('2010Dr001','A-202 Hildarshan  
apartment,Vastrapur','Ahmedabad','Gujarat',380015);
```

```
INSERT INTO staff_address VALUES ('2012Dr087','007 Kuldeep nagar,Rilif  
road','Ahmedabad','Gujarat',380010);
```

	SID	Street	city	state	pincode
▶	1998Dr001	21-chankya Tower,Vastrapur	Ahmedabad	Gujarat	380010
	2000Mr100	16,Shyamrang society,ghatodia	Ahmedabad	Gujarat	380050
	2000Nu013	402 Diamond apartment ,shaduvavani road	Rajkot	Gujarat	360005
	2000Sw001	A-101 Surrise park society,Gurukul	Ahmedabad	Gujarat	380042
	2001Ca067	14-pushpkunj bunglows,science city	Ahmedabad	Gujarat	380060
	2001Dr082	E-402 indraprasth-8,thaltej	Ahmedabad	Gujarat	380054
	2007Wa082	3 shivdarshan society,science city	Ahmedabad	Gujarat	380050
	2008Wa008	B-001 Shantinagar society,alap evenue	Rajkot	Gujarat	360005
	2009Dr022	01 Golden homes,Science city	Ahmedabad	Gujarat	380060
	2010Dr001	A-202 Hildarshan apartment,Vastrapur	Ahmedabad	Gujarat	380015
	2010Sw045	shriharipark,naranpura	Ahmedabad	Gujarat	380060
	2012Dr087	007 Kuldeep nagar,Rilif road	Ahmedabad	Gujarat	380010
	2014Ph056	Alap green city ,raiya road	Rajkot	Gujarat	360005
	2014Re007	Shubhlakhsmi complex,Ram nagar road	Surat	Gujarat	370021
	2014Re056	Narayanfarm,kashibag	Surat	Gujarat	370015
	2015Dr038	11/3 darshan society,Paldi	Ahmedabad	Gujarat	380060
	2016Nu019	1/A Shantiniketan society,kalavad road	Rajkot	Gujarat	360013
*	HULL	HULL	HULL	HULL	HULL

5) Table registration:

```
create table Registration(
```

```
    PNo bigint,
```

```
    Name varchar(50) Not null,
```

```
    Date Date,
```

```
    primary key(PNo,Date)
```

```
);
```

```
INSERT INTO Registration VALUES(1,'Nishi Patel','2010-04-12');
INSERT INTO Registration VALUES (2,'Janvi Patel','2000-02-26');
INSERT INTO Registration VALUES (3,'Grishma Shah','1998-12-15');
INSERT INTO Registration VALUES (4,'Nikhil Jain','2012-07-28');
INSERT INTO Registration VALUES (2,'Janvi Patel','2015-11-01');
INSERT INTO Registration VALUES (5,'Akash Mistry','2017-02-15');
INSERT INTO Registration VALUES (5,'Akash Mistry','2011-04-07');
INSERT INTO Registration VALUES (6,'Rutvi Barot','1999-05-12');
INSERT INTO Registration VALUES (7,'Pankaj Singh','2010-04-12');
INSERT INTO Registration VALUES (8,'jaya patel','1998-03-12');
INSERT INTO Registration VALUES (9,'Charmi chokshi','2001-04-02');
INSERT INTO Registration VALUES (10,'Shan sukla','2011-12-12');
INSERT INTO Registration VALUES (11,'Janki jain','2010-12-11');
INSERT INTO Registration VALUES (12,'Ranjay Singh','2014-11-23');
INSERT INTO Registration VALUES (13,'Rita Joshi','2011-02-25');
INSERT INTO Registration VALUES (14,'Pankaj patel','2009-06-17');
INSERT INTO Registration VALUES (15,'Raghav shah','2001-04-08');
```

	PNo	Name	Date
▶	1	Nishi Patel	2010-04-12
	2	Janvi Patel	2000-02-26
	2	Janvi Patel	2015-11-01
	3	Grishma Shah	1998-12-15
	4	Nikhil Jain	2012-07-28
	5	Akash Mistry	2011-04-07
	5	Akash Mistry	2017-02-15
	6	Rutvi Barot	1999-05-12
	7	Pankaj Singh	2010-04-12
	8	jaya patel	1998-03-12
	9	Charmi chokshi	2001-04-02
	10	Shan sukla	2011-12-12
	11	Janki jain	2010-12-11
	12	Ranvijay Singh	2014-11-23
	13	Rita Joshi	2011-02-25
	14	Pankaj patel	2009-06-17
	15	Raghav shah	2001-04-08
*	NULL	NULL	NULL

6) Table appointment:

```
create table Appointment (
    ANo int Not null,
    PNo bigint,
    SID varchar (9) Not null,
    Time varchar (10) Not null,
    Date date,
    Name varchar (50) Not null,
    primary key(PNo,Date));
```

```
INSERT INTO Appointment VALUES (1,1,'1998Dr001','3:30 PM','2010-04-12','Nishi
Patel');
```

```
INSERT INTO Appointment VALUES (2,2,'2001Dr082','9:45 AM','2000-02-26','Janvi Patel');
INSERT INTO Appointment VALUES (3,3,'2015Dr038','10:25 AM','1998-12-15','Grishma Shah');
INSERT INTO Appointment VALUES (4,4,'1998Dr001','7:00 PM','2012-07-28','Nikhil Jain');
INSERT INTO Appointment VALUES (5,2,'2001Dr082','4:30 PM','2015-11-01','Janvi Patel');
INSERT INTO Appointment VALUES (6,5,'2015Dr038','6:00 PM','2017-02-15','Akash Mistry');
INSERT INTO Appointment VALUES (7,5,'1998Dr001','12:40 PM','2011-04-07','Akash Mistry');
INSERT INTO Appointment VALUES (8,6,'2015Dr038','5:50 PM','1999-05-12','Rutvi Barot');
INSERT INTO Appointment VALUES (9,7,'2015Dr038','2:15 PM','2010-04-12','Pankaj Singh');
INSERT INTO Appointment VALUES (10,8,'2009Dr022','10:10 AM','1998-03-12','jaya patel');
INSERT INTO Appointment VALUES (8,9,'2010Dr001','4:00 PM','2001-04-02','Charmi chokshi');
INSERT INTO Appointment VALUES (9,10,'2009Dr022','6:50 PM','2011-12-12','Shan sukla');
INSERT INTO Appointment VALUES (11,11,'2012Dr087','9:10 AM','2010-12-11','Janki jain');
INSERT INTO Appointment VALUES (13,12,'2012Dr087','12:30 PM','2014-11-23','Ranjiv Singh');
INSERT INTO Appointment VALUES (14,13,'2009Dr022','5:15 PM','2011-02-25','Rita Joshi');
INSERT INTO Appointment VALUES (12,14,'2012Dr087','3:30 PM','2009-06-17','Pankaj patel');
INSERT INTO Appointment VALUES (15,15,'2015Dr038','12:10 PM','2001-04-08','Raghav shah');
```

	ANo	PNo	SID	Time	Date	Name
▶	1	1	1998Dr001	3:30 PM	2010-04-12	Nishi Patel
	2	2	2001Dr082	9:45 AM	2000-02-26	Janvi Patel
	5	2	2001Dr082	4:30 PM	2015-11-01	Janvi Patel
	3	3	2015Dr038	10:25 AM	1998-12-15	Grishma Shah
	4	4	1998Dr001	7:00 PM	2012-07-28	Nikhil Jain
	7	5	1998Dr001	12:40 PM	2011-04-07	Akash Mistry
	6	5	2015Dr038	6:00 PM	2017-02-15	Akash Mistry
	8	6	2015Dr038	5:50 PM	1999-05-12	Rutvi Barot
	9	7	2015Dr038	2:15 PM	2010-04-12	Pankaj Singh
	10	8	2009Dr022	10:10 AM	1998-03-12	jaya patel
	8	9	2010Dr001	4:00 PM	2001-04-02	Charmi chokshi
	9	10	2009Dr022	6:50 PM	2011-12-12	Shan sukla
	11	11	2012Dr087	9:10 AM	2010-12-11	Janki jain
	13	12	2012Dr087	12:30 PM	2014-11-23	Ranvijay Singh
	14	13	2009Dr022	5:15 PM	2011-02-25	Rita Joshi
	12	14	2012Dr087	3:30 PM	2009-06-17	Pankaj patel
	15	15	2015Dr038	12:10 PM	2001-04-08	Raghav shah
*	NULL	NULL	NULL	NULL	NULL	NULL

7) Table Patient:

```
create table Patient(
    PID          bigint,
    Name         varchar(50) Not null,
    Gender       varchar(6) Not null,
    Birthdate    date Not null,
    Phone_no     varchar(13) Not null,
    Emergency_phone_no varchar(13) Not null,
    Blood_group  varchar(3),
    primary key(PID));
```

```
INSERT INTO Patient VALUES (1,'Nishi Patel','Female','1998-04-12',9876554123,9632587412,'O+');

INSERT INTO Patient VALUES (2,'Janvi Patel','Female','1997-02-26',9658741235,9561234875,'A-');

INSERT INTO Patient VALUES (3,'Grishma Shah','Female','1975-12-15',9685236598,9764312585,'B+');

INSERT INTO Patient VALUES (4,'Nikhil Jain','Male','1993-07-28',9562318475,9568375416,'AB+');

INSERT INTO Patient VALUES (5,'Akash Mistry','Male','1992-04-07',9865732194,9683529567,'B-');

INSERT INTO Patient VALUES (6,'Rutvi Barot','Female','1987-05-12',9567398564,8683526498,'O+');

INSERT INTO Patient VALUES (7,'Pankaj Singh','Male','1979-04-12',8864952375,8495623274,'A-');

INSERT INTO Patient VALUES (8,'jaya patel','Male','1968-03-12',8795623423,8695324576,'A+');

INSERT INTO Patient VALUES (9,'Charmi chokshi','Female','1992-04-02',8596325689,8462593154,'B+');

INSERT INTO Patient VALUES (10,'Shan sukla','Male','1960-12-12',8596263514,8562345195,'B-');

INSERT INTO Patient VALUES (11,'Janki jain','Female','1992-12-11',8451629395,8460523916,'B+');

INSERT INTO Patient VALUES (12,'Ranjit Singh','Male','1987-11-23',8362594512,8265349875,null);

INSERT INTO Patient VALUES(13,'Rita Joshi','Female','1985-02-25',8659753245,8695324587,'B+');

INSERT INTO Patient VALUES(14,'Pankaj patel','Male','1982-06-17',9865745236,9562348555,null);
```

```
INSERT INTO Patient VALUES(15,'Raghav shah','Male','1979-04-08',8885556662,9586352645,null);
```

	PID	Name	Gender	Birthdate	Phone_no	Emergency_phone_no	Blood_group
▶	1	Nishi Patel	Female	1998-04-12	9876554123	9632587412	O+
	2	Janvi Patel	Female	1997-02-26	9658741235	9561234875	A-
	3	Grishma Shah	Female	1975-12-15	9685236598	9764312585	B+
	4	Nikhil Jain	Male	1993-07-28	9562318475	9568375416	AB+
	5	Akash Mistry	Male	1992-04-07	9865732194	9683529567	B-
	6	Rutvi Barot	Female	1987-05-12	9567398564	8683526498	O+
	7	Pankaj Singh	Male	1979-04-12	8864952375	8495623274	A-
	8	jaya patel	Male	1968-03-12	8795623423	8695324576	A+
	9	Charmi chokshi	Female	1992-04-02	8596325689	8462593154	B+
	10	Shan sukla	Male	1960-12-12	8596263514	8562345195	B-
	11	Janki jain	Female	1992-12-11	8451629395	8460523916	B+
	12	Ranvijay Singh	Male	1987-11-23	8362594512	8265349875	NULL
	13	Rita Joshi	Female	1985-02-25	8659753245	8695324587	B+
	14	Pankaj patel	Male	1982-06-17	9865745236	9562348555	NULL
	15	Raghav shah	Male	1979-04-08	8885556662	9586352645	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

8) Table patient address:

```
create table Patient_address(
    PID          bigint,
    Street       varchar(70),
    city         varchar(10),
    state        varchar(10),
    pincode      bigint,
    primary key(PID)
);
```

INSERT INTO Patient_address VALUES (1,'17-pushpkunj bunglows,science city','Ahmedabad','Gujarat',380060);

INSERT INTO Patient_address VALUES (2,'A-102 indraprasth-8,thaltej ','Ahmedabad','Gujarat',380054);

INSERT INTO Patient_address VALUES (3,'17/3 darshan society,Paldi','Ahmedabad','Gujarat',380060);

INSERT INTO Patient_address VALUES (4,'202 Diamond apartment ,shaduvavani road ','Rajkot','Gujarat',360005);

INSERT INTO Patient_address VALUES
(5,'shriharipark,naranpura','Ahmedabad','Gujarat',380060);

INSERT INTO Patient_address VALUES (6,'17 shivdarshan society,science city','Ahmedabad','Gujarat',380050);

INSERT INTO Patient_address VALUES (7,'21-chankya Tower,Vastrapur','Ahmedabad','Gujarat',380010);

INSERT INTO Patient_address VALUES (8,'27,Shyamrang society,ghatodia','Ahmedabad','Gujarat',380050);

INSERT INTO Patient_address VALUES (9,'Shubhlakhsni complex,Ram nagar road','Surat','Gujarat',370021);

INSERT INTO Patient_address VALUES
(10,'Narayanfarm,kashibag','Surat','Gujarat',370015);

INSERT INTO Patient_address VALUES (11,'A-801 Surrise park society,Gurukul','Ahmedabad','Gujarat',380042);

INSERT INTO Patient_address VALUES (12,' 1/C Shantiniketan society,kalavad road ','Rajkot','Gujarat',360013);

INSERT INTO Patient_address VALUES (13,'E-001 Shantinagar society,alap evenue','Rajkot','Gujarat',360005);

INSERT INTO Patient_address VALUES (14,'16 Golden homes,Science city','Ahmedabad','Gujarat',380060);

```
INSERT INTO Patient_address VALUES (15,'Alap green city ,raiya road','Rajkot','Gujarat',360005);
```

	PID	Street	city	state	pincode
▶	1	17-pushpkunj bunglows,science city	Ahmedabad	Gujarat	380060
	2	A-102 indraprasth-8,thaltej	Ahmedabad	Gujarat	380054
	3	17/3 darshan society,Paldi	Ahmedabad	Gujarat	380060
	4	202 Diamond apartment ,shaduvasvani road	Rajkot	Gujarat	360005
	5	shriharipark,naranpura	Ahmedabad	Gujarat	380060
	6	17 shivdarshan society,science city	Ahmedabad	Gujarat	380050
	7	21-chankya Tower,Vastrapur	Ahmedabad	Gujarat	380010
	8	27,Shyamrang society,ghatodia	Ahmedabad	Gujarat	380050
	9	Shubhlakhsni complex,Ram nagar road	Surat	Gujarat	370021
	10	Narayanfarm,kashibag	Surat	Gujarat	370015
	11	A-801 Surrise park society,Gurukul	Ahmedabad	Gujarat	380042
	12	1/C Shantiniketan society,kalavad road	Rajkot	Gujarat	360013
	13	E-001 Shantinagar society,alap evenue	Rajkot	Gujarat	360005
	14	16 Golden homes,Science city	Ahmedabad	Gujarat	380060
*	15	Alap green city ,raiya road	Rajkot	Gujarat	360005
			NULL	NULL	NULL

9) Table Patient health information:

```
create table Patient_Health_Information(
    PID bigint,
    Date date,
    Disease varchar(40) Not null,
    StatusOfDisease varchar(10),
    Weight_kg float Not null,
    hemoglobin smallint,
    Height_Inch varchar(7),
    BloodPressure_MMHg smallint,
    primary key(PID,Date)
);
```

INSERT INTO Patient_Health_Information VALUES(1,'2010-04-12','Paredontal
absis','Normal',50,12.5,'5ft 3in',120);

INSERT INTO Patient_Health_Information VALUES(2,'2000-02-26','Angina
pectoris','Serious',56,12,'6ft 0in',140);

INSERT INTO Patient_Health_Information VALUES(3,'1998-12-
15','Fever','Normal',65,12,'6ft 0in',110);

INSERT INTO Patient_Health_Information VALUES(4,'2012-07-
28','Dentinogenous imperfecta','Serious',67,11.5,'4ft 2in',130);

INSERT INTO Patient_Health_Information VALUES(2,'2015-11-01','Angina
pectoris','Serious',72,13,'6ft 0in',78);

INSERT INTO Patient_Health_Information VALUES(5,'2017-02-
15','Fever','Normal',45,11.5,'5ft 5in',90);

INSERT INTO Patient_Health_Information VALUES(5,'2011-04-07','Oral
submucous fibrosis','Serious',67,11.5,'5ft 5in',110);

INSERT INTO Patient_Health_Information VALUES(6,'1999-05-
12','Cough,Fever','Normal',76,10,'5ft 7in',78);

INSERT INTO Patient_Health_Information VALUES(7,'2010-04-
12','Dizziness','Serious',68,13,'5ft 4in',65);

INSERT INTO Patient_Health_Information VALUES(8,'1998-03-12','Check up for
baby (Pregenant)','Serious',56,12,'5ft 8in',104);

INSERT INTO Patient_Health_Information VALUES(9,'2001-04-
02','Hypertension','Serious',59,11,'6ft 0in',150);

INSERT INTO Patient_Health_Information VALUES(10,'2011-12-
12','Pregenant','Serious',54,13.5,'5ft 3in',95);

```
INSERT INTO Patient_Health_Information VALUES(11,'2010-12-11','headache','Normal',60,14,'5ft 4in',109);
```

```
INSERT INTO Patient_Health_Information VALUES(12,'2014-11-23','headache','Normal',46,12,'5ft 7in',120);
```

```
INSERT INTO Patient_Health_Information VALUES(13,'2011-02-25','Pregenant','Normal',49,11,'5ft 8in',100);
```

```
INSERT INTO Patient_Health_Information VALUES(14,'2009-06-17','Heart attack','Serious',55,9,'6ft 0in',98);
```

```
INSERT INTO Patient_Health_Information VALUES(15,'2001-04-08','Fever','Normal',78,14.5,'6ft 1in',85);
```

10) Table Medical_Information:

```
create table Medical_Information(
    PID bigint,
    Date date,
    MedicineName varchar(30) Not null,
    MedicineType varchar(20),
    Price double Not null,
    Dosage varchar(20) Not null,
    Timeperiod varchar(20) Not null,
    primary key(PID,Date)
);
```

```
INSERT INTO Medical_Information VALUES(1,'2010-04-12','Licamox CV','Teeth related',4040,'10 tables','twice in a day');
```

```
INSERT INTO Medical_Information VALUES(2,'2000-02-26','Sarbex XT','Leg pain related',6000,'350 tablets','3 time in day');
```

```
INSERT INTO Medical_Information VALUES(3,'1998-12-15','Calpol','fever',3000,'12 tablets','twice day');
```

```
INSERT INTO Medical_Information VALUES(4,'2012-07-28','Ecosprin','Teeth related',5050,'10 tables','twice in a day');
```

```
INSERT INTO Medical_Information VALUES(2,'2015-11-01','Repan-D','Leg pain related',9020,'350 tablets','3 time in day');
```

```
INSERT INTO Medical_Information VALUES(5,'2017-02-15','Calpol','fever',870,'12 tablets','twice day');
```

```
INSERT INTO Medical_Information VALUES(5,'2011-04-07','Cefiya','Teeth related',700,'10 tables','twice in a day');
```

```
INSERT INTO Medical_Information VALUES(6,'1999-05-12','Calpol,saptilin','fever,cough',1560,'10,30 tablets','twice day');
```

```
INSERT INTO Medical_Information VALUES(7,'2010-04-12','Azithron','Dizziness',1300,'150 tablets','once after lunch');
```

```

INSERT INTO Medical_Information VALUES(8,'1998-03-12','benazepril','Pregenant(Blood)',400,'10 tablets','Once in day');

INSERT INTO Medical_Information VALUES(9,'2001-04-02','furosemide','Hypertension',600,'30 tablets','Daily one');

INSERT INTO Medical_Information VALUES(10,'2011-12-12','Penicillin','Pregenant(Fever)',750,'10 tablets','Once in day');

INSERT INTO Medical_Information VALUES(11,'2010-12-11','Vidaflam Sp','headache related',500,'15 tablets','3times in day');

INSERT INTO Medical_Information VALUES(12,'2014-11-23','Vidaflam Sp','headache related',2401,'80 tablets','3times in day');

INSERT INTO Medical_Information VALUES(13,'2011-02-25','Acetaminophen','Pregenant(normal)',1200,'10 tablets','Once in day');

INSERT INTO Medical_Information VALUES(14,'2009-06-17','Aspirin','Small heart attack',1760,'150 tablets','3 times in day');

INSERT INTO Medical_Information VALUES(15,'2001-04-08','Dolo','fever related',1550,'10 tablets','twice day');

```

	PID	Date	MedicineName	MedicineType	Price	Dosage	Timeperiod
▶	1	2010-04-12	Licamox CV	Teeth related	4040	10 tables	twice in a day
	2	2000-02-26	Sarbex XT	Leg pain related	6000	350 tablets	3 time in day
	2	2015-11-01	Repan-D	Leg pain related	9020	350 tablets	3 time in day
	3	1998-12-15	Calpol	fever	3000	12 tablets	twice day
	4	2012-07-28	Ecosprin	Teeth related	5050	10 tables	twice in a day
	5	2011-04-07	Cefiya	Teeth related	700	10 tables	twice in a day
	5	2017-02-15	Calpol	fever	870	12 tablets	twice day
	6	1999-05-12	Calpol,saptilin	fever,cough	1560	10,30 tablets	twice day
	7	2010-04-12	Azithron	Dizziness	1300	150 tablets	once after lunch
	8	1998-03-12	benazepril	Pregenant(Blood)	400	10 tablets	Once in day
	9	2001-04-02	furosemide	Hypertension	600	30 tablets	Daily one
	10	2011-12-12	Penicillin	Pregenant(Fever)	750	10 tablets	Once in day
	11	2010-12-11	Vidaflam Sp	headache related	500	15 tablets	3times in day
	12	2014-11-23	Vidaflam Sp	headache related	2401	80 tablets	3times in day
	13	2011-02-25	Acetaminophen	Pregenant(normal)	1200	10 tablets	Once in day
	14	2009-06-17	Aspirin	Small heart attack	1760	150 tablets	3 times in day
	15	2001-04-08	Dolo	fever related	1550	10 tablets	twice day
*		NULl	NULl	NULl	NULl	NULl	NULl

11) Table Room:

```
create table Room(
    Block      varchar(1),
    RoomNo     smallint ,
    RoomType   varchar(12) Not null,
    Price      Double Not null,
    Date       date Not null,
    Status     varchar(10) Not null,
    primary key(Block,RoomNo));

INSERT INTO Room VALUES('B',202,'Suite',2000,'2015-02-12','vacant');

INSERT INTO Room VALUES('A',401,'Executive',1000,'2011-04-07','filled');

INSERT INTO Room VALUES('A',101,'Deluxe',700,'1999-11-26','vacant');

INSERT INTO Room VALUES('B',204,'Suite',2000,'2013-05-27','filled');

INSERT INTO Room VALUES('B',105,'Executive',1000,'1996-10-23','vacant');

INSERT INTO Room VALUES('A',106,'Deluxe',700,'2017-01-22','filled');

INSERT INTO Room VALUES('A',204,'Executive',1000,'2017-02-15','vacant');

INSERT INTO Room VALUES('B',606,'Deluxe',700,'2000-02-26','filled');

INSERT INTO Room VALUES('B',109,'Deluxe',700,'2014-06-30','vacant');
```

	Block	RoomNo	RoomType	Price	Date	Status
▶	A	101	Deluxe	700	1999-11-26	vacant
	A	106	Deluxe	700	2017-01-22	filled
	A	204	Executive	1000	2017-02-15	vacant
	A	401	Executive	1000	2011-04-07	filled
	B	105	Executive	1000	1996-10-23	vacant
	B	109	Deluxe	700	2014-06-30	vacant
	B	202	Suite	2000	2015-02-12	vacant
	B	204	Suite	2000	2013-05-27	filled
	B	606	Deluxe	700	2000-02-26	filled
*		NULL	NULL	NULL	NULL	NULL

12) Table New_ward:

```
create table New_Ward(
    Floor      varchar(6) Not null,
    Block      varchar(1),
    RoomNo     smallint,
    RoomType   varchar(12) Not null,
    Price      Double Not null,
    primary key(Block,RoomNo));
```

```
INSERT INTO New_Ward VALUES(2,'B',202,'Suite',2000);
INSERT INTO New_Ward VALUES(1,'A',401,'Executive',1000);
INSERT INTO New_Ward VALUES(3,'A',101,'Deluxe',700);
INSERT INTO New_Ward VALUES(1,'B',204,'Suite',2000);
INSERT INTO New_Ward VALUES(2,'B',105,'Executive',1000);
INSERT INTO New_Ward VALUES(3,'A',106,'Deluxe',700);
INSERT INTO New_Ward VALUES(1,'A',204,'Executive',1000);
INSERT INTO New_Ward VALUES(2,'B',606,'Deluxe',700);
INSERT INTO New_Ward VALUES(3,'B',109,'Deluxe',700);
```

	Floor	Block	RoomNo	RoomType	Price
▶	3	A	101	Deluxe	700
	3	A	106	Deluxe	700
	1	A	204	Executive	1000
	1	A	401	Executive	1000
	2	B	105	Executive	1000
	3	B	109	Deluxe	700
	2	B	202	Suite	2000
	1	B	204	Suite	2000
	2	B	606	Deluxe	700
*	NULL	NULL	NULL	NULL	NULL

13) Table Room_Facility:

```
create table Room_Facility(
    RoomType  varchar(12),
    Television  boolean,
    AC          boolean,
    Telephone   boolean,
    Refrigerator boolean,
    NumberOfBed smallint Not null,
    Wardrobe boolean,
    ComputerWithInternetConnection boolean,
    Microwaveoven boolean,
    DiningTable boolean,
    primary key(RoomType)
);
```

```
INSERT INTO Room_Facility
VALUES('Suite',true,true,true,true,2,true,true,true);
```

```
INSERT INTO Room_Facility
VALUES('Executive',true,true,true,false,3,true,false,true,true);
```

```
INSERT INTO Room_Facility
VALUES('Deluxe',true,true,true,true,4,true,false,false);
```

	RoomType	Television	AC	Telephone	Refrigerator	NumberOfBed	Wardrobe	ComputerWithInternetConnection	Microwaveoven	DiningTable
►	Deluxe	1	1	1	1	4	1	0	0	0
	Executive	1	1	1	0	3	1	0	1	1
	Suite	1	1	1	1	2	1	1	1	1
*		NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

14) Table Blood donation:

```
create table Blood_donation(
    PID          bigint,
    BloodDonor   varchar(30) Not null,
```

```
Sex          varchar(6),
PhoneNumber varchar(13) Not null,
Age smallint Not null,
Weight float Not null,
CurrentDonationDate date Not null,
BloodGroup varchar(3) Not null,
Hemoglobin smallint,
BloodDeliveryDate date,
LastDonationDate date,
MedicalStatus varchar(50)
);
```

```
INSERT INTO Blood_donation VALUES (1,'Shashvat
sanghvi','Male',9510263456,20,56,'2010-02-09','O+',14,'2010-12-05','2009-10-
26',null);
```

```
INSERT INTO Blood_donation VALUES (2,'Kapila
sharma','Female',9632574125,27,50,'2008-10-01','A-',12.5,'2008-10-01','2006-10-
22',null);
```

```
INSERT INTO Blood_donation VALUES (3,'Susila
patel','Female',9513264872,29,55,'2010-10-08','B+',11,'2010-12-03','2007-11-
24',null);
```

```
INSERT INTO Blood_donation VALUES (null,'hemangi
sharma','Female',9965432188,27,52,'2009-12-01','O-',12.5,null,'2009-11-12',null);
```

```
INSERT INTO Blood_donation VALUES (8,'Manthan
Patel','Male',9786543265,24,76,'2010-12-23','A+',14,'2010-12-29','2008-09-
22',null);
```

```
INSERT INTO Blood_donation VALUES (null,'Yogi
jain','Male',9563286515,19,72,'2015-09-23','AB-',13,null,'2003-12-16',null);
```

```
INSERT INTO Blood_donation VALUES (9,'yash
shah','Male',8829563495,20,65,'2001-10-01','B+',14,'2002-12-23','1998-10-
12',null);
```

```
INSERT INTO Blood_donation VALUES (7,'Zeel  
sharma','Male',8795362546,21,70,'2008-12-23','A-',12.5,'2008-12-24',null,null);
```

```
INSERT INTO Blood_donation VALUES (5,'Sapn  
Patel','Male',8460953278,24,69,'2009-05-07','B-',12,'2009-06-20','2004-10-  
10',null);
```

```
INSERT INTO Blood_donation VALUES (8,'Rita  
sharma','Female',9623518472,20,50,'2004-12-04','A+',12.5,'2004-12-24',null,null);
```

```
INSERT INTO Blood_donation VALUES (1,'Krishna  
Patel','Female',9935624815,21,54,'2010-08-08','O+',11,'2011-09-23','2001-09-  
12',null);
```

```
INSERT INTO Blood_donation VALUES (null,'himani  
sharma','Female',8141265395,23,56,'2011-12-12','O-',8,null,null,null);
```

```
INSERT INTO Blood_donation VALUES (2,'krupa  
patel','Female',8265396584,22,52,'2008-10-01','A-',12,'2008-10-01','2007-12-  
21',null);
```

```
INSERT INTO Blood_donation VALUES (null,'Vishwa  
shah','Female',8346591672,19,57,'2012-10-25','AB-',10,null,null,null);
```

```
INSERT INTO Blood_donation VALUES (8,'krishma  
sharma','Female',9685741295,20,68,'2012-12-01','A+',9.5,'2012-12-01','2010-10-  
22',null);
```

PID	BloodDonor	Sex	PhoneNumber	Age	Weight	CurrentDonationDate	BloodGroup	Hemoglobin	BloodDeliveryDate	LastDonationDate
1	Shashvat sanghvi	Male	9510263456	20	56	2010-02-09	O+	14	2010-12-05	2009-10-26
2	Kapila sharma	Female	9632574125	27	50	2008-10-01	A-	13	2008-10-01	2006-10-22
3	Susila patel	Female	9513264872	29	55	2010-10-08	B+	11	2010-12-03	2007-11-24
NUL	hemangi sharma	Female	9965432188	27	52	2009-12-01	O-	13	NUL	2009-11-12
8	Manthan Patel	Male	9786543265	24	76	2010-12-23	A+	14	2010-12-29	2008-09-22
NUL	Yogi jain	Male	9563286515	19	72	2015-09-23	AB-	13	NUL	2003-12-16
9	yash shah	Male	8829563495	20	65	2001-10-01	B+	14	2002-12-23	1998-10-12
7	Zeel sharma	Male	8795362546	21	70	2008-12-23	A-	13	2008-12-24	NUL
5	Sapn Patel	Male	8460953278	24	69	2009-05-07	B-	12	2009-06-20	2004-10-10
8	Rita sharma	Female	9623518472	20	50	2004-12-04	A+	13	2004-12-24	NUL
1	Krishna Patel	Female	9935624815	21	54	2010-08-08	O+	11	2011-09-23	2001-09-12
NUL	himani sharma	Female	8141265395	23	56	2011-12-12	O-	8	NUL	NUL
2	krupa patel	Female	8265396584	22	52	2008-10-01	A-	12	2008-10-01	2007-12-21
NUL	Vishwa shah	Female	8346591672	19	57	2012-10-25	AB-	10	NUL	NUL
8	krishma sharma	Female	9685741295	20	68	2012-12-01	A+	10	2012-12-01	2010-10-22

15) Table Patient policy:

```
create table Patient_Policy(
    PID bigint,
    CheckOutDate date,
    Policy_Name varchar(200) Not null,
    Policy_Number varchar(15) Not null,
    Policy_Type varchar(30),
    Policy_Duration varchar(10),
    primary key(PID,CheckOutDate)
);
```

```
INSERT INTO Patient_Policy VALUES (3,'2000-09-13','The orientals company limited','DZ32987601','Caseless family policy','15 Years');
```

```
INSERT INTO Patient_Policy VALUES (6,'2001-10-02',' United company insurance ','AB097RT431','Handcase ploicy','10 Year');
```

```
INSERT INTO Patient_Policy VALUES (12,'2014-11-23','National company insurance ','UI0987OK12P','Caseless family policy','6 Year');
```

```
INSERT INTO Patient_Policy VALUES (14,'2009-08-17','Star India insurance limited','WE76120971M','Caseless family policy','5 year');
```

	PID	CheckOutDate	Policy_Name	Policy_Number	Policy_Type	Policy_Duration
▶	3	2000-09-13	The orientals company limited	DZ32987601	Caseless family policy	15 Years
	6	2001-10-02	United company insurance	AB097RT431	Handcase ploicy	10 Year
	12	2014-11-23	National company insurance	UI0987OK12P	Caseless family policy	6 Year
	14	2009-08-17	Star India insurance limited	WE76120971M	Caseless family policy	5 year
*	NULL	NULL	NULL	NULL	NULL	NULL

16) Table patient check out:

```
create table Patient_TotalBill(
    PID          bigint,
    DateIN       date,
    CheckOutDate date Not null,
    PymtentType  varchar(15) Not null,
```

```

    MedicinePrice float,
    RoomPrice     double,
    DoctorFees    double,
    ServicePrice  float,
    Bill_No       bigint,
    TotalBill     double Not null ,
    primary key(PID,Dateln)
);

INSERT INTO Patient_TotalBill VALUES (1,'2010-04-12','2010-04-18','cash',4040,0,30000,0,1,35240);
INSERT INTO Patient_TotalBill VALUES (2,'2000-02-26','2001-01-16','cash',6000,2000,4050,150,2,12200);
INSERT INTO Patient_TotalBill VALUES (3,'1998-12-15','2000-09-13','through policy',3000,700,15000,400,3,19100);
INSERT INTO Patient_TotalBill VALUES (4,'2012-07-28','2012-09-12','cash',5050,1000,39000,800,4,45850);
INSERT INTO Patient_TotalBill VALUES (2,'2015-11-01','2015-12-01','check',9020,2000,2500,160,5,13680);
INSERT INTO Patient_TotalBill VALUES (5,'2011-04-07','2011-08-01','cash',870,0,7800,0,6,8670);
INSERT INTO Patient_TotalBill VALUES (5,'2017-02-15','2017-02-17','cash',700,0,700,0,7,1400);
INSERT INTO Patient_TotalBill VALUES (6,'1999-05-12','2001-10-02','through policy',1560,1000,13000,350,8,15910);
INSERT INTO Patient_TotalBill VALUES (7,'2010-04-12','2011-11-14','check',1300,1000,50200,455,9,52955);
INSERT INTO Patient_TotalBill VALUES (8,'1998-03-12','1998-03-12','cash',400,0,500,0,10,900);
INSERT INTO Patient_TotalBill VALUES (9,'2001-04-02','2001-04-02','cash',600,0,1000,0,11,1600);
INSERT INTO Patient_TotalBill VALUES (10,'2011-12-12','2011-12-12','cash',750,0,1200,0,12,1950);
INSERT INTO Patient_TotalBill VALUES (11,'2010-12-11','2010-12-11','cash',500,0,500,0,13,1000);

```

```

INSERT INTO Patient_TotalBill VALUES (12,'2014-11-23','2014-11-23','through
policy',2401,2000,90000,500,14,94901);
INSERT INTO Patient_TotalBill VALUES (13,'2011-02-25','2011-03-
11','Check',1200,1000,70500,300,15,73000);
INSERT INTO Patient_TotalBill VALUES (14,'2009-06-17','2009-08-17','through
policy',1760,1000,53300,700,16,56760);
INSERT INTO Patient_TotalBill VALUES (15,'2001-04-08','2001-04-
08','Cash',1550,1000,24000,300,17,26850);

```

	PID	DateIn	CheckOutDate	Block	RoomNo	StatusOfPatient
▶	2	2000-02-26	2001-01-16	A	401	not fully cured
	2	2015-11-01	2015-11-01	A	206	not fully cured
	3	1998-12-15	2000-09-13	A	101	under treatment
	4	2012-07-28	2012-08-08	B	104	Cured
	6	1999-05-12	2001-10-02	B	606	under treatment
	7	2010-04-12	2011-11-14	B	202	Cured
	12	2014-11-23	2014-11-23	A	104	No more
	13	2011-02-25	2011-03-11	B	203	Cured
	14	2009-06-17	2009-08-17	A	102	Cured
	15	2001-04-08	2001-04-08	A	402	Cured
*	NULL	NULL	NULL	NULL	NULL	NULL

17) Table Payment_Cheque:

```

create table Payment_Cheque(
    PID bigint,
    Date date,
    ChequeType varchar(15) Not null unique Key,
    ChequeNo varchar(50) Not null,
    Recipient varchar(100) Not null,
    AmountInNo double Not null,
    AmountInWords varchar(200) Not null,
    DateOfPaying date Not null,

```

```

primary key(PID,Date)
);

INSERT INTO Payment_Cheque VALUES (7,'2010-04-
12','ACPay','PKTIUW264W9S27','ABC hospital',13680,'thirteen thousand six
hundred eighty','2015-12-01');
INSERT INTO Payment_Cheque VALUES (13,'2011-02-25','bearer
cheque','OIHIUW26UU9S27','ABC hospital',73000,' seventy-three
thousand','2011-03-11');

```

	PID	Date	ChequeType	ChequeNo	Recipient	AmountInNo	AmountInWords	DateOfPaying
▶	7	2010-04-12	ACPay	PKTIUW264W9S27	ABC hospital	13680	thirteen thousand six hundred eighty	2015-12-01
*	13	2011-02-25	bearer cheque	OIHIUW26UU9S27	ABC hospital	73000	seventy-three thousand	2011-03-11
*		HULL	HULL	HULL	HULL	HULL	HULL	HULL

18) Table Patient Total Bill:

```

create table Patient_TotalBill(
    PID bigint,
    DateIN date,
    CheckOutDate date Not null,
    PymtType varchar(15) Not null,
    MedicinePrice float,
    RoomPrice double,
    DoctorFees double,
    ServicePrice float,
    TotalBill double Not null,
    primary key(PID,DateIn));

```

```

INSERT INTO Patient_TotalBill VALUES (1,'2010-04-12','2010-04-
18','cash',4040,0,30000,0,35240);
INSERT INTO Patient_TotalBill VALUES (2,'2000-02-26','2001-01-
16','cash',6000,2000,4050,150,12200);

```

```
INSERT INTO Patient_TotalBill VALUES (3,'1998-12-15','2000-09-13','through
policy',3000,700,15000,400,19100);
INSERT INTO Patient_TotalBill VALUES (4,'2012-07-28','2012-09-
12','cash',5050,1000,39000,800,45850);
INSERT INTO Patient_TotalBill VALUES (2,'2015-11-01','2015-12-
01','check',9020,2000,2500,160,13680);
INSERT INTO Patient_TotalBill VALUES (5,'2011-04-07','2011-08-
01','cash',870,0,7800,0,8670);
INSERT INTO Patient_TotalBill VALUES (5,'2017-02-15','2017-02-
17','cash',700,0,700,0,1400);
INSERT INTO Patient_TotalBill VALUES (6,'1999-05-12','2001-10-02','through
policy',1560,1000,13000,350,15910);
INSERT INTO Patient_TotalBill VALUES (7,'2010-04-12','2011-11-
14','check',1300,1000,50200,455,52955);
INSERT INTO Patient_TotalBill VALUES (8,'1998-03-12','1998-03-
12','cash',400,0,500,0,900);
INSERT INTO Patient_TotalBill VALUES (9,'2001-04-02','2001-04-
02','cash',600,0,1000,0,1600);
INSERT INTO Patient_TotalBill VALUES (10,'2011-12-12','2011-12-
12','cash',750,0,1200,0,1950);
INSERT INTO Patient_TotalBill VALUES (11,'2010-12-11','2010-12-
11','cash',500,0,500,0,1000);
INSERT INTO Patient_TotalBill VALUES (12,'2014-11-23','2014-11-23','through
policy',2401,2000,90000,500,94901);
INSERT INTO Patient_TotalBill VALUES (13,'2011-02-25','2011-03-
11','Check',1200,1000,70500,300,73000);
INSERT INTO Patient_TotalBill VALUES (14,'2009-06-17','2009-08-17','through
policy',1760,1000,53300,700,56760);
INSERT INTO Patient_TotalBill VALUES (15,'2001-04-08','2001-04-
08','Cash',1550,1000,24000,300,26850);
```

	PID	DateIN	CheckOutDate	PaymentType	MedicinePrice	RoomPrice	DoctorFees	ServicePrice	TotalBill
▶	1	2010-04-12	2010-04-18	cash	4040	0	30000	0	35240
	2	2000-02-26	2001-01-16	cash	6000	2000	4050	150	12200
	2	2015-11-01	2015-12-01	check	9020	2000	2500	160	13680
	3	1998-12-15	2000-09-13	through policy	3000	700	15000	400	19100
	4	2012-07-28	2012-09-12	cash	5050	1000	39000	800	45850
	5	2011-04-07	2011-08-01	cash	870	0	7800	0	8670
	5	2017-02-15	2017-02-17	cash	700	0	700	0	1400
	6	1999-05-12	2001-10-02	through policy	1560	1000	13000	350	15910
	7	2010-04-12	2011-11-14	check	1300	1000	50200	455	52955
	8	1998-03-12	1998-03-12	cash	400	0	500	0	900
	9	2001-04-02	2001-04-02	cash	600	0	1000	0	1600
	10	2011-12-12	2011-12-12	cash	750	0	1200	0	1950
	11	2010-12-11	2010-12-11	cash	500	0	500	0	1000
	12	2014-11-23	2014-11-23	through policy	2401	2000	90000	500	94901
	13	2011-02-25	2011-03-11	Check	1200	1000	70500	300	73000
	14	2009-06-17	2009-08-17	through policy	1760	1000	53300	700	56760
	15	2001-04-08	2001-04-08	Cash	1550	1000	24000	300	26850
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Foreign key:

Alter table Login add FOREIGN KEY (UserID) references user_information(UserID);
 Alter table registration add FOREIGN KEY (PNo,Date) references appointment(PNo,Date);
 Alter table appointment add FOREIGN KEY (SID) references staff_information(SID);
 Alter table user_information add FOREIGN KEY (UserID) references staff_information(SID);
 Alter table patient add FOREIGN KEY (PID) references registration(PNo);
 Alter table patient_health_information add FOREIGN KEY (PID,Date) references registration(PNo,Date);
 Alter table patientcheckout add FOREIGN KEY (PID,DateIn) references registration(PNo,Date);
 Alter table patientcheckout add FOREIGN KEY (Block,RoomNo) references room(Block,RoomNo);
 Alter table medical_information add FOREIGN KEY (PID,Date) references registration(PNo,Date);
 Alter table patient_totalbill add FOREIGN KEY (PID,DateIn) references registration(PNo,Date);
 Alter table patient_policy add FOREIGN KEY (PID) references registration(PNo);
 Alter table staff_address add FOREIGN KEY (SID) references staff_information(SID);
 Alter table patient_address add FOREIGN KEY (PID) references patient(PID);
 Alter table Room add FOREIGN KEY (RoomType) references Room_Facility(RoomType);
 Alter table New_Ward add FOREIGN KEY (RoomType) references Room_Facility(RoomType);
 Alter table Blood_donation add FOREIGN KEY (PID) references Patient(PID);
 Alter table patient_totalbill add FOREIGN KEY (PID) references Payment_Check(PID);

❖ List of Queries:

1. Find the names, PID, disease, doctor's name of the patients who have visited to more than one doctor.
2. Find the PID, name, disease, doctor's name of the patients who has been visited in the month of April.
3. Obtain the names of all doctors that have performed a medical procedure they have never been certified to perform.
4. Display doctor id, doctor name, total fees received by the doctor(s) who have treated more than one patient.
5. Obtain the information for appointments where a patient met with doctors other than his/her primary care physician.
6. The patient has undergone a procedure with a cost larger than 5,000.
7. Find the building, Room No of vacant room and their facilities.
8. List the patient Name, PID, disease Name, related doctor name which patient had at least two appointment.
9. List the doctor name, id and information who is retired (retirement age 65 years).
10. Remove the staff details who leaves the job.
11. List of patients who are not cured while checkout.
12. Give name, PID of patients and their policy details who payment through policy.
13. Obtain details of patients who had not taken room.
14. Find room type which has AC in the room.
15. Provide details of staff members who works more than 10 hours.
16. Suggest another doctor name to the patient who is not cure for one disease by one doctor in more than 1 year.
17. Give patient Name and Appointment number, Patient Id who takes appointment but not come to the hospital.
18. Give doctor name who had cured more than one patient.
19. Obtain details of doctor who are not permanent doctor in the hospital.
20. Find average salary of staff members, average total bill of patients per year and give the conclusion that hospital is in profit or loss.
21. Give the list of staff members who lives in 'Ahmedabad'.
22. List different room types and their rates.
23. Give the details of patient and room which are allocated to which patient.
24. List the detail of blood donor who can donate to any person.
25. Give the details of donor who has donate blood first time.
26. Obtain details of patient, medical information, health information, medicine information who are not fully cured and leaves the hospital.
27. Show that how many women and men suffered from particular disease in specific year.
28. Give Name, Patient id and medicine information in year 2010.
29. List doctor Id, doctor name and qualification of doctor.
30. List patient name, Id and emergency phone number.
31. Update doctor type from visiting to permanent.

Queries and screen shot of output:

- 1) Find the names, PID, disease, doctor's name of the patients who have visited to more than one doctor.

Answer: Select registration.name, registration.PNo,
Patient_Health_Information.Disease, User_information.Name FROM
Registration, patient_health_information,appointment as A, appointment as B,
user_information WHERE A.PNo=B.PNo and Registration.PNo = A.PNo and
Registration.PNo=B.PNo and A.SID!=B.SID and A.Date=registration.Date and
A.SID = user_information.UserID and A.PNo= patient_health_information.PID
and A.Date=patient_health_information.Date group by A.SID,A.Date;

	name	PNo	Disease	Name
▶	Akash Mistry	5	Oral submucous fibrosis	Keyusha Patel
	Akash Mistry	5	Fever	Shriram Madhav Nene

- 2) Find the PID, name, disease, doctor's name of the patients who has been visited in the month of April.

Answer: select distinct
patient.Name,patient.PID,patient_health_information.Disease,user_information.
Name from patient,patient_health_information,user_information,
appointment where (select substr(appointment.Date,6,2) = 04) and
appointment.PNo = patient.PID and appointment.date =
patient_health_information.Date and
patient.PID=patient_health_information.PID and appointment.SID =
user_information.UserID;

	Name	PID	Disease	Name
▶	Nishi Patel	1	Paredontal absis	Keyusha Patel
	Akash Mistry	5	Oral submucous fibrosis	Keyusha Patel
	Pankaj Singh	7	Dizziness	Shriram Madhav Nene
	Charmi chokshi	9	Hypertension	Neel Sharma
	Raghav shah	15	Fever	Shriram Madhav Nene

- 3) Display doctor id, doctor name, total fees received by the doctor(s) who have treated more than one patient.

Answer: Select User_information.Name,User_information.UserID,
 sum(patient_totalbill.DoctorFees) as Total_Doctor_Fees FROM
 User_information, appointment as A,appointment as B,patient_totalbill
 WHERE
 (User_information.Position='Doctor(Cardiologist)' OR
 User_information.Position='Doctor(MBBS)' OR
 User_information.Position='Doctor(Dentist)' OR
 User_information.Position='Doctor(Gynaecologist)' OR
 User_information.Position='Doctor(Neurological surgeon)' OR
 User_information.Position='Doctor(Pain management specialist)') and
 A.SID=B.SID and A.SID=User_information.UserID and
 A.PNo=patient_totalbill.PID and B.PNo=patient_totalbill.PID and
 A.Date=patient_totalbill.DateIN and B.Date=patient_totalbill.DateIN group by
 A.SID;

	Name	UserID	Total_Doctor_Fees
▶	Keyusha Patel	1998Dr001	76800
	RohitKumar Shah	2001Dr082	6550
	Kashyap Patel	2009Dr022	72200
	Neel Sharma	2010Dr001	25000
	Pankti varma	2012Dr087	143800
	Shriram Madhav Nene	2015Dr038	78900

- 4) Obtain the information for appointments where a patient met with doctors other than his/her primary care physician.

Answer: Select distinct Appointment.* ,Patient_Health_Information.Disease
 From appointment,User_information,patient_Health_Information
 WHERE appointment.SID = User_information.UserID and
 User_information.Position!='Doctor(MBBS)' and
 User_information.Position!='Doctor(Pain management specialist)'
 and appointment.PNo=patient_health_information.PID group by Date;

	Ano	PNo	SID	Time	Date	Name	Disease
▶	10	8	2009Dr022	10:10 AM	1998-03-12	jaya patel	Check up for baby (Pregenant)
	2	2	2001Dr082	9:45 AM	2000-02-26	Janvi Patel	Angina pectoris
	8	9	2010Dr001	4:00 PM	2001-04-02	Charmi chokshi	Hypertension
	1	1	1998Dr001	3:30 PM	2010-04-12	Nishi Patel	Paredontal absis
	14	13	2009Dr022	5:15 PM	2011-02-25	Rita Joshi	Pregenant
	7	5	1998Dr001	12:40 PM	2011-04-07	Akash Mistry	Oral submucous fibrosis
	9	10	2009Dr022	6:50 PM	2011-12-12	Shan sukla	Pregenant
	4	4	1998Dr001	7:00 PM	2012-07-28	Nikhil Jain	Dentinogenous imperfecta
	5	2	2001Dr082	4:30 PM	2015-11-01	Janvi Patel	Angina pectoris

5) The patient has undergone a procedure with a cost larger than 5,000.

Answer: Select distinct patient.* , Patient_Health_Information.Disease,
 Patient_TotalBill.TotalBill from patient,
 Patient_TotalBill,Patient_Health_Information WHERE
 Patient_TotalBill.TotalBill > 5000 and
 Patient_TotalBill.PID = Patient.PID and
 Patient.PID=Patient_Health_Information.PID
 and patient_totalbill.DateIN = patient_health_information.Date ;

PID	Name	Gender	Birthdate	Phone_no	Emergency_phone_no	Blood_group	Disease	TotalBill
1	Nishi Patel	Female	1998-04-12	9876554123	9632587412	O+	Paredontal absis	35240
2	Janvi Patel	Female	1997-02-26	9658741235	9561234875	A-	Angina pectoris	12200
2	Janvi Patel	Female	1997-02-26	9658741235	9561234875	A-	Angina pectoris	13680
3	Grishma Shah	Female	1975-12-15	9685236598	9764312585	B+	Fever	19100
4	Nikhil Jain	Male	1993-07-28	9562318475	9568375416	AB+	Dentinogenous imperfecta	45850
5	Akash Mistry	Male	1992-04-07	9865732194	9683529567	B-	Oral submucous fibrosis	8670
6	Rutvi Barot	Female	1987-05-12	9567398564	8683526498	O+	Cough,Fever	15910
7	Pankaj Singh	Male	1979-04-12	8864952375	8495623274	A-	Dizziness	52955
12	Ranjiv Singh	Male	1987-11-23	8362594512	8265349875	HULL	headache	94901
13	Rita Joshi	Female	1985-02-25	8659753245	8695324587	B+	Pregenant	73000
14	Pankaj Patel	Male	1982-06-17	9865745236	9562348555	HULL	Heart attack	56760
15	Raghav Shah	Male	1979-04-08	8885556662	9586352645	HULL	Fever	26850

6) Find the building, Room No of vacant room and their facilities.

Answer: select Room.RoomNo, Room.Block, Room_Facility.* From Room,
 Room facility WHERE Room.Status='vacant' and Room.RoomType =
 room_facility.RoomType;

	RoomNo	Block	RoomType	Television	AC	Telephone	Refrigerator	NumberOfBed	Wardrobe	ComputerWithInternetConnection	Microwaveoven	DiningTable
▶	101	A	Deluxe	1	1	1	1	4	1	0	0	0
	204	A	Executive	1	1	1	0	3	1	0	1	1
	105	B	Executive	1	1	1	0	3	1	0	1	1
	109	B	Deluxe	1	1	1	1	4	1	0	0	0
	202	B	Suite	1	1	1	1	2	1	1	1	1

- 7) List the patient Name, PID, disease Name, related doctor name which patient had at least two appointment.

Answer: Select distinct A.PNo, A.Name,A.Date,user_information.UserID, patient_health_information.Disease FROM appointment as A,appointment as B, user_information,patient_health_information, registration WHERE A.PNo=B.PNo and A.ANo!=B.ANo and A.SID=user_information.UserID and A.PNo= patient_health_information.PID and A.Date=patient_health_information.Date group by A.PNo,Date;

PNo	Name	Date	UserID	Disease
▶ 2	Janvi Patel	2000-02-26	2001Dr082	Angina pectoris
2	Janvi Patel	2015-11-01	2001Dr082	Angina pectoris
5	Akash Mistry	2011-04-07	1998Dr001	Oral submucous fibrosis
5	Akash Mistry	2017-02-15	2015Dr038	Fever

- 8) List the doctor name, id and information who is retired (retirement age 65 years).

Answer: Select staff_information.SID,Name,position,salary from staff_information WHERE staff_information.Birthdate >= date(now()- '0065-00-00');

	SID	Name	position	salary
*	NULL	NULL	NULL	NULL

- 9) Remove the staff details who leaves the job.

Answer: delete staff_information.* , staff_address.* FROM staff_address,staff_information WHERE staff_information.SID='2000Sw001' and staff_address.SID=staff_information.SID;

Staff details:

SID	Name	Sex	Phone_no	Email_id	Birthdate	Qualification	Position	DateOfJoining	WorkHrs	Type
► 1998Dr001	Keyusha Patel	Female	8141269822	Keyushapatel4@yahoo.com	1958-06-12	Masters of Den...	Doctor(Dentist)	1998-08-04	12	permanent
2000Mr100	Piyush Patel	Male	9925481099	pp%64199@gmail.com	1979-02-23	Bachelor of Sci...	Manager	2000-09-22	6	NULL
2000Nu013	Shah Saloni Kr...	Female	7600946936	Saloni76Shah@offce.club	1975-05-06	Nursing (ADN) ...	Nurse	2000-05-21	7	NULL
2001Ca067	Mukesh Roy	Male	9825321151	mukeshroy067@gmail.com	1975-02-14	High school dipl...	Cashier	2001-12-13	12	NULL
2001Dr082	RohitKumar S...	Male	8460391597	RShukla\$#00@gmail.com	1965-07-14	Masters of Car...	Doctor(Cardiolo...	2001-10-05	9	trainee
2007Wa082	Shyam Dalal	Male	9428919219	NULL	1994-11-16	S.S.C	Watchman	2007-07-27	12	NULL
2008Wa008	Raju Shah	Male	8165488896	NULL	1993-12-23	S.S.C	Watchman	2008-09-16	12	NULL
2009Dr022	Kashyap Patel	Male	9865741236	Kashyap@yahoo.in	1979-10-07	M.D. in Gynaec...	Doctor(Gynaec...	2009-03-23	12	permanent
2010Dr001	Neel Sharma	Male	9865347215	Neel098@outlook.com	1978-12-13	M.D. in Neurology	Doctor(Neurolo...	2010-10-10	8	visiting
2010Sw045	Jyoti Desai	Female	9978496354	NULL	1996-09-08	9th pass	Sweeper	2010-02-11	10	NULL
2012Dr087	Pankti varma	Female	9685741236	DrPankti@yahoo.co.in	1987-11-14	M.D. in Pain ma...	Doctor(Pain ma...	2012-01-03	12	permanent
2014Ph056	Dinesh Jain	Male	8238057413	Dj11@yahoo.in	1992-08-13	M.Pharm	Pharmacist	2014-06-23	12	NULL
2014Re007	Mayank Shukla	Male	9601739976	Mayank@gmail.com	1990-12-11	High school dipl...	Receptionist	2014-07-15	14	NULL
2014Re056	Jesika Sharma	Female	9558848811	Jesika\$#12@gmail.com	1988-06-16	High school dipl...	Receptionist	2014-01-14	14	NULL
2015Dr038	Shriram Madh...	Male	9925987092	Nene.Dr@outlook.com	1991-10-17	Masters of child...	Doctor(MBBS)	2015-11-13	14	permanent
2016Nu019	Parmar Rita M...	FeMale	9978407136	RitaM!!@gmail.com	1991-01-01	Nursing (ADN)	Nurse	2016-03-15	7	NULL

Staff address details:

SID	Street	city	state	pincode
1998Dr001	21-chankya Tower,Vastrapur	Ahmedabad	Gujarat	380010
2000Mr100	16,Shyamrang society,ghatlodia	Ahmedabad	Gujarat	380050
2000Nu013	402 Diamond apartment ,shaduvavansi road	Rajkot	Gujarat	360005
2001Ca067	14-pushpkunj bunglows,science city	Ahmedabad	Gujarat	380060
2001Dr082	E-402 indraprasth-8,thaltej	Ahmedabad	Gujarat	380054
2007Wa082	3 shivdarshan society,science city	Ahmedabad	Gujarat	380050
2008Wa008	B-001 Shantinagar society,alap evenue	Rajkot	Gujarat	360005
2009Dr022	01 Golden homes,Science city	Ahmedabad	Gujarat	380060
2010Dr001	A-202 Hildarshan apartment,Vastrapur	Ahmedabad	Gujarat	380015
2010Sw045	shrihari park,naranpura	Ahmedabad	Gujarat	380060
2012Dr087	007 Kuldeep nagar,Rilif road	Ahmedabad	Gujarat	380010
2014Ph056	Alap green city ,raiya road	Rajkot	Gujarat	360005
2014Re007	Shubhlakhsmi complex,Ram nagar road	Surat	Gujarat	370021
2014Re056	Narayanfarm,kashibag	Surat	Gujarat	370015
2015Dr038	11/3 darshan society,Paldi	Ahmedabad	Gujarat	380060
2016Nu019	1/A Shantiniketan society,kalavad road	Rajkot	Gujarat	360013

10) List of patients who are not cured while checkout.

Answer: Select patient. *, patientcheckout.DateIn,
CheckOutDate,Block,RoomNo,StatusOfPatient

FROM patient,patientcheckout WHERE
 patientcheckout.StatusOfPatient!='Cured' and patient.PID=patientcheckout.PID;

	PID	Name	DateIn	CheckOutDate	Block	RoomNo	StatusOfPatient	Gender	Birthdate	Phone_no	Emergency_phone_no	Blood_group
▶	2	Janvi Patel	2000-02-26	2001-01-16	A	401	not fully cured	Female	1997-02-26	9658741235	9561234875	A-
	2	Janvi Patel	2015-11-01	2015-11-01	A	206	not fully cured	Female	1997-02-26	9658741235	9561234875	A-
	3	Grishma Shah	1998-12-15	2000-09-13	A	101	under treatment	Female	1975-12-15	9685236598	9764312585	B+
	6	Rutvi Barot	1999-05-12	2001-10-02	B	606	under treatment	Female	1987-05-12	9567398564	8683526498	O+
	12	Ranjay Singh	2014-11-23	2014-11-23	A	104	No more	Male	1987-11-23	8362594512	8265349875	NULL

11) Give name, PID of patients and their policy details who payment through policy.

Answer: Select patient policy. *, patient.Name FROM
 patient,patient_totalbill,patient_policy WHERE
 patient_totalbill.PymentType='through policy'
 and patient_policy.PID=patient_totalbill.PID and patient_policy.PID=patient.PID;

	PID	CheckOutDate	Policy_Name	Policy_Number	Policy_Type	Policy_Duration	Name
▶	3	2000-09-13	The orientals company limited	DZ32987601	Caseless family policy	15 Years	Grishma Shah
	6	2001-10-02	United company insurance	AB097RT431	Handcase ploicy	10 Year	Rutvi Barot
	12	2014-11-23	National company insurance	UI0987OK12P	Caseless family policy	6 Year	Ranjay Singh
	14	2009-08-17	Star India insurance limited	WE76120971M	Caseless family policy	5 year	Pankaj Patel

12) Obtain details of patients who had not taken room.

Answer: Select patient. *, patient_totalbill.DateIN,CheckOutDate FROM
 patient,patient_totalbill WHERE patient_totalbill.RoomPrice=0 and
 patient.PID=patient_totalbill.PID ;

	PID	Name	DateIN	CheckOutDate	Gender	Birthdate	Phone_no	Emergency_phone_no	Blood_group
▶	1	Nishi Patel	2010-04-12	2010-04-18	Female	1998-04-12	9876554123	9632587412	O+
	5	Akash Mistry	2011-04-07	2011-08-01	Male	1992-04-07	9865732194	9683529567	B-
	5	Akash Mistry	2017-02-15	2017-02-17	Male	1992-04-07	9865732194	9683529567	B-
	8	jaya patel	1998-03-12	1998-03-12	Male	1968-03-12	8795623423	8695324576	A+
	9	Charmi chokshi	2001-04-02	2001-04-02	Female	1992-04-02	8596325689	8462593154	B+
	10	Shan sukla	2011-12-12	2011-12-12	Male	1960-12-12	8596263514	8562345195	B-
	11	Janki Jain	2010-12-11	2010-12-11	Female	1992-12-11	8451629395	8460523916	B+

13) Find room type which has AC in the room.

Answer: select distinct room_facility.RoomType,AC,Room.Price FROM room_facility,room WHERE room.RoomType=room_facility.RoomType and room_facility.AC = 1;

	RoomType	AC	Price
►	Deluxe	1	700
	Executive	1	1000
	Suite	1	2000

14) Provide details of staff members who works more than 10 hours.

Answer: select staff_information.name,Sid,Position,salary,Phone_no,WorkHours FROM staff_information where staff_information.WorkHours>10;

	name	Sid	Position	salary	Phone_no	WorkHours
►	Keyusha Patel	1998Dr001	Doctor(Dentist)	25999	8141269822	12
	Mukesh Roy	2001Ca067	Cashier	20000	9825321151	12
	Shyam Dalal	2007Wa082	Watchman	12500	9428919219	12
	Raju Shah	2008Wa008	Watchman	11500	8165488996	12
	Kashyap Patel	2009Dr022	Doctor(Gynaecologist)	120000	9865741236	12
	Pankti varma	2012Dr087	Doctor(Pain management specialist)	100000	9685741236	12
	Dinesh Jain	2014Ph056	Pharmacist	25500	8238057413	12
	Mayank Shukla	2014Re007	Receptionist	14500	9601739976	14
	Jesika Sharma	2014Re056	Receptionist	14500	9558848811	14
	Shriram Madhav Nene	2015Dr038	Doctor(MBBS)	100999	9925987092	14

15) Give doctor name who had cured more than one patient.

Answer: select user_information.Name,UserID,position from user_information,patientcheckout,appointment as A, appointment as B where A.SID = B.SID and A.PNo=patientcheckout.PID and B.PNo = patientcheckout.PID and patientcheckout.StatusOfPatient='Cured' and A.SID = user_information.UserID;

	Name	UserID	position
►	Keyusha Patel	1998Dr001	Doctor(Dentist)
	Shriram Madhav Nene	2015Dr038	Doctor(MBBS)
	Kashyap Patel	2009Dr022	Doctor(Gynaecologist)
	Pankti varma	2012Dr087	Doctor(Pain management specialist)
	Shriram Madhav Nene	2015Dr038	Doctor(MBBS)

16) Obtain details of doctor who are not permanent doctor in the hospital.

Answer: Select staff_information.* from staff_information WHERE
 (staff_information.Position='Doctor(Cardiologist)' OR
 staff_information.Position='Doctor(MBBS)'
 OR staff_information.Position='Doctor(Dentist)' OR staff_information.Position='Doctor(Gynaecologist)' OR staff_information.Position='Doctor(Neurological surgeon)'
 OR staff_information.Position='Doctor(Pain management specialist)')
 and staff_information.Type !='permanent';

SID	Name	Sex	Phone_no	Email_id	Birthdate	Qualification	Position	DateOfJoining	WorkHrs	Type	Salary	Emergency
2001Dr082	RohitKumar S...	Male	8460391597	RShukla\$00@gmail.com	1965-07-14	Masters of Car...	Doctor(Cardio...	2001-10-05	9	trainee	119442	965834955;
2010Dr001	Neel Sharma	Male	9865347215	Neel098@outlook.com	1978-12-13	M.D. in Neurology	Doctor(Neurolo...	2010-10-10	8	visiting	140000	982376451;

17) Give the list of staff members who lives in 'Ahmedabad'.

Answer: select staff_information.name, position, staff_address.* from staff_address, staff_information where staff_address.city = 'Ahmedabad' and staff_address.SID = staff_information.SID;

	name	position	SID	Street	city	state	pincode
►	Keyusha Patel	Doctor(Dentist)	1998Dr001	21-chankya Tower,Vastrapur	Ahmedabad	Gujarat	380010
	Piyush Patel	Manager	2000Mr100	16,Shyamrang society,ghatodia	Ahmedabad	Gujarat	380050
	Kamlesh Thakker	Sweeper	2000Sw001	A-101 Sunrise park society,Gurukul	Ahmedabad	Gujarat	380042
	Mukesh Roy	Cashier	2001Ca067	14-pushpkunj bunglows,science city	Ahmedabad	Gujarat	380060
	RohitKumar Shah	Doctor(Cardiologist)	2001Dr082	E-402 indraprasth-8,thaltej	Ahmedabad	Gujarat	380054
	Shyam Dalal	Watchman	2007Wa082	3 shivdarshan society,science city	Ahmedabad	Gujarat	380050
	Kashyap Patel	Doctor(Gynaecologist)	2009Dr022	01 Golden homes,Science city	Ahmedabad	Gujarat	380060
	Neel Sharma	Doctor(Neurological surgeon)	2010Dr001	A-202 Hildarshan apartment,Vastrapur	Ahmedabad	Gujarat	380015
	Jyoti Desai	Sweeper	2010Sw045	shrihari park,naranpura	Ahmedabad	Gujarat	380060
	Pankti varma	Doctor(Pain management specialist)	2012Dr087	007 Kuldeep nagar,Rilif road	Ahmedabad	Gujarat	380010
	Shriram Madhav...	Doctor(MBBS)	2015Dr038	11/3 darshan society,Paldi	Ahmedabad	Gujarat	380060

18) List different room types and their rates.

Answer: select distinct room.RoomType, Price from room;

	RoomType	Price
►	Deluxe	700
	Executive	1000
	Suite	2000

19) Give the details of patient and room which are allocated to which patient.

Answer: select patient.name, patientcheckout.* from patient,patientcheckout where patient.PID = patientcheckout.PID;

	name	PID	DateIn	CheckOutDate	Block	RoomNo	StatusOfPatient
▶	Janvi Patel	2	2000-02-26	2001-01-16	A	401	not fully cured
	Janvi Patel	2	2015-11-01	2015-11-01	A	206	not fully cured
	Grishma Shah	3	1998-12-15	2000-09-13	A	101	under treatment
	Nikhil Jain	4	2012-07-28	2012-08-08	B	104	Cured
	Rutvi Barot	6	1999-05-12	2001-10-02	B	606	under treatment
	Pankaj Singh	7	2010-04-12	2011-11-14	B	202	Cured
	Ranjiv Singh	12	2014-11-23	2014-11-23	A	104	No more
	Rita Joshi	13	2011-02-25	2011-03-11	B	203	Cured
	Pankaj Patel	14	2009-06-17	2009-08-17	A	102	Cured
	Raghav Shah	15	2001-04-08	2001-04-08	A	402	Cured

20) List the detail of blood donor who can donate to any person.

Answer: select blood_donation.* from blood_donation where blood_donation.BloodGroup='O+';

	PID	BloodDonor	Sex	PhoneNumber	Age	Weight	CurrentDonationDate	BloodGroup	Hemoglobin	BloodDeliveryDate	LastDonationDate	MedicalStatus
▶	1	Shashvat Sanghvi	Male	9510263456	20	56	2010-02-09	O+	14	2010-12-05	2009-10-26	NULL
	1	Krishna Patel	Female	9935624815	21	54	2010-08-08	O+	11	2011-09-23	2001-09-12	NULL

21) Give the details of donor who has donated blood first time.

Answer: select blood_donation.* from blood_donation where blood_donation.LastDonationDate IS NULL ;

	PID	BloodDonor	Sex	PhoneNumber	Age	Weight	CurrentDonationDate	BloodGroup	Hemoglobin	BloodDeliveryDate	LastDonationDate	MedicalStatus
▶	7	Zeel Sharma	Male	8795362546	21	70	2008-12-23	A-	13	2008-12-24	NULL	NULL
	8	Rita Sharma	Female	9623518472	20	50	2004-12-04	A+	13	2004-12-24	NULL	NULL
	NULL	himani sharma	Female	8141265395	23	56	2011-12-12	O-	8	NULL	NULL	NULL
	NULL	Vishwa Shah	Female	8346591672	19	57	2012-10-25	AB-	10	NULL	NULL	NULL

22) Obtain details of patient, medical information, health information, medicine information who are not fully cured and leaves the hospital.

Answer: Select distinct patient.* ,patientcheckout.DateIn,CheckOutDate, Block,RoomNo,StatusOfPatient FROM patient,patientcheckout, patient_health_information,medical_information WHERE patientcheckout.StatusOfPatient='not fully cured' and patient.PID=patientcheckout.PID and patientcheckout.PID=patient_health_information.PID and patientcheckout.PID=medical_information.PID ;

	PID	Name	Gender	Birthdate	Phone_no	Emergency_phone_no	Blood_group	DateIn	CheckOutDate	Block	RoomNo	StatusOfPatient
▶	2	Janvi Patel	Female	1997-02-26	9658741235	9561234875	A-	2000-02-26	2001-01-16	A	401	not fully cured
	2	Janvi Patel	Female	1997-02-26	9658741235	9561234875	A-	2015-11-01	2015-11-01	A	206	not fully cured

23) Give Name, Patient id and medicine information in year 2010.

Answer: select distinct patient.name, medical_information.* from patient,medical_information where patient.PID = medical_information.PID and (select substr(medical_information.Date,1,4) =2010);

	name	PID	Date	MedicineName	MedicineType	Price	Dosage	Timeperiod
▶	Nishi Patel	1	2010-04-12	Licamox CV	Teeth related	4040	10 tablets	twice in a day
	Pankaj Singh	7	2010-04-12	Azithron	Dizziness	1300	150 tablets	once after lunch
	Janki Jain	11	2010-12-11	Vidaflam Sp	headache related	500	15 tablets	3times in day

24) List doctor Id, doctor name and qualification of doctor.

Answer: Select staff_information.SID,name,Qualification from staff_information WHERE staff_information.Position='Doctor(Cardiologist)' OR staff_information.Position='Doctor(MBBS)' OR staff_information.Position='Doctor(Dentist)' OR staff_information.Position='Doctor(Gynaecologist)' OR staff_information.Position='Doctor(Neurologicalsurgeon)' OR staff_information.Position='Doctor(Pain management specialist)';

	SID	name	Qualification
►	1998Dr001	Keyusha Patel	Masters of Dental Science
	2001Dr082	RohitKumar Shah	Masters of Cardiologist(MD)
	2009Dr022	Kashyap Patel	M.D. in Gynaecology
	2010Dr001	Neel Sharma	M.D. in Neurology
	2012Dr087	Pankti varma	M.D. in Pain management
	2015Dr038	Shriram Madhav Nene	Masters of child specialist(MD) doing from civil college
*	NULL	NULL	NULL

25) List patient name, Id and emergency phone number.

Answer: select patient.PID,name,Emergency_phone_no from patient;

	PID	name	Emergency_phone_no
►	1	Nishi Patel	9632587412
	2	Janvi Patel	9561234875
	3	Grishma Shah	9764312585
	4	Nikhil Jain	9568375416
	5	Akash Mistry	9683529567
	6	Rutvi Barot	8683526498
	7	Pankaj Singh	8495623274
	8	jaya patel	8695324576
	9	Charmi chokshi	8462593154
	10	Shan sukla	8562345195
	11	Janki jain	8460523916
	12	Ranvijay Singh	8265349875
	13	Rita Joshi	8695324587
	14	Pankaj patel	9562348555
	15	Raghav shah	9586352645

26) Update doctor type from visiting to permanent

Answer: update staff_information

set staff_information.Type = 'permanent'

where staff_information.type = 'visiting' and staff_information.SID= '2010Dr001';

Stored Procedure:

- 1) Suggest another doctor name to the patient who is not cure for one disease by one doctor in more than 1 year.

DELIMITER \$\$

```
CREATE PROCEDURE suggest_doctor()
BEGIN
Select distinct
appointment.PNo,appointment.Name,B.SID,B.Name,B.Position,patient_health_information.Disease,patientcheckout.DateIn,CheckOutDate from
staff_information      as      A      ,      staff_information      as
B,appointment,patientcheckout,patient_health_information WHERE
patientcheckout.StatusOfPatient='under treatment'
and (select patientcheckout.PID WHERE
(substr(patientcheckout.CheckOutDate,1,4)-
substr(patientcheckout.DateIn,1,4))>1)=appointment.PNo and
appointment.SID=A.SID      and      A.Position      =      B.Position      and
appointment.PNo=patient_health_information.PID order by appointment.Name;
END $$

call suggest_doctor();
```

	PNo	Name	SID	Name	Position	Disease	DateIn	CheckOutDate
▶	3	Grishma Shah	2015Dr038	Shriram Madhav Nene	Doctor(MBBS)	Fever	1998-12-15	2000-09-13
	3	Grishma Shah	2015Dr001	madhuri Nene	Doctor(MBBS)	Fever	1998-12-15	2000-09-13
	6	Rutvi Barot	2015Dr001	madhuri Nene	Doctor(MBBS)	Cough,Fever	1999-05-12	2001-10-02
	6	Rutvi Barot	2015Dr038	Shriram Madhav Nene	Doctor(MBBS)	Cough,Fever	1999-05-12	2001-10-02

- 2) user information whose position is Receptionist

Answer: DELIMITER \$\$

```
CREATE PROCEDURE user_info()
BEGIN
SELECT UserID,Name FROM User_information
WHERE Position='Receptionist';
END $$

call user_info();
```

Output:

	User ID	Name
▶	2014Re007	Mayank Shukla
	2014Re056	Jesika Sharma

- 3) The patient has undergone a procedure with a cost larger than 5,000.

Answer: DELIMITER \$\$

```
CREATE PROCEDURE bill ()  
BEGIN  
    SELECT PID, DateIN, CheckOutDate, TotalBill FROM Patient_TotalBill  
    WHERE TotalBill>5000;  
END $$  
call bill();
```

Output:

PID	DateIN	CheckOutDate	TotalBill
1	2010-04-12	2010-04-18	35240
2	2000-02-26	2001-01-16	12200
2	2015-11-01	2015-12-01	13680
3	1998-12-15	2000-09-13	19100
4	2012-07-28	2012-09-12	45850
5	2011-04-07	2011-08-01	8670
6	1999-05-12	2001-10-02	15910
7	2010-04-12	2011-11-14	52955
12	2014-11-23	2014-11-23	94901
13	2011-02-25	2011-03-11	73000
14	2009-06-17	2009-08-17	56760
15	2001-04-08	2001-04-08	26850

- 4) Provide details of staff members who works more than 10 hours.

Answer: DELIMITER \$\$

```
CREATE PROCEDURE staff_info()
BEGIN
    SELECT SID,Name,Salary,WorkHours FROM staff_information
    WHERE WorkHours>10;
END $$
call staff_info();
```

Output:

SID	Name	Salary	WorkHours
1998Dr001	Keyusha Patel	25999	12
2001Ca067	Mukesh Roy	20000	12
2007Wa082	Shyam Dalal	12500	12
2008Wa008	Raju Shah	11500	12
2009Dr022	Kashyap Patel	120000	12
2012Dr087	Pankti varma	100000	12
2014Ph056	Dinesh Jain	25500	12
2014Re007	Mayank Shukla	14500	14
2014Re056	Jesika Sharma	14500	14
2015Dr038	Shriram Madhav Nene	100999	14

- 5) List particular room type and its rate.

Answer: DELIMITER \$\$

```
CREATE PROCEDURE room (IN var varchar(12))
BEGIN
    SELECT distinct RoomType,Price FROM room
    WHERE RoomType=var;
END $$
call room('Executive');
```

Output:

	RoomType	Price
▶	Executive	1000

- 6) Give the list of staff members who lives in 'Ahmedabad'.

Answer: DELIMITER \$\$

```
CREATE PROCEDURE staff_addr()
BEGIN
    SELECT      staff_address.SID,city,staff_information.Name      FROM
    staff_address,staff_information WHERE staff_address.city='Ahmedaba
    d' and staff_address.SID=staff_information.SID;
END $$
```

call staff_addr();

SID	city	Name
1998Dr001	Ahmedabad	Keyusha Patel
2000Mr100	Ahmedabad	Piyush Patel
2000Sw001	Ahmedabad	Kamlesh Thakker
2001Ca067	Ahmedabad	Mukesh Roy
2001Dr082	Ahmedabad	RohitKumar Shah
2007Wa082	Ahmedabad	Shyam Dalal
2009Dr022	Ahmedabad	Kashyap Patel
2010Dr001	Ahmedabad	Neel Sharma
2010Sw045	Ahmedabad	Jyoti Desai
2012Dr087	Ahmedabad	Pankti varma
2015Dr038	Ahmedabad	Shriram Madhav...

TRIGGERS:

- 1) When doctor retire (retirement age 65 years) remove their details from database.

```
DELIMITER $$  
CREATE TRIGGER doctor_retirement  
BEFORE UPDATE ON staff_information  
FOR EACH ROW  
BEGIN  
    DELETE FROM staff_information WHERE YEAR(curdate()) -  
        YEAR(staff_information.Birthdate) > 65;  
    DELETE FROM staff_address WHERE staff_address.SID = staff_information.SID;  
    DELETE FROM user_information WHERE user_information.UserID =  
        staff_information.SID;  
    DELETE FROM login WHERE login.UserID = staff_information.SID;  
END; $$  
DELIMITER $$
```

- 2) Automatically generate total bill.

```
DELIMITER $$  
CREATE TRIGGER total_bill  
BEFORE UPDATE ON Patient_TotalBill  
FOR EACH ROW  
BEGIN  
    SELECT sum(MedicinePrice, RoomPrice, DoctorFees,  
        ServicePrice) as TotalBill FROM Patient_TotalBill;  
END; $$  
DELIMITER $$
```