

HOSPITAL MANAGEMENT SYSTEM

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Problem statement:

We are striving to provide the best healthcare by saving time also it is essential to have a proper database to handle information of a hospital.

Introduction:

Hospital management system project is to make all the management process like patients' registration, billing, doctor's appointment, etc in an efficient way. We always see that to find out the patient's history, the user must go through various registers. This results in wastage of time. So, by this system it will become easy to manage all process. So now by taking the motivation of this scenario which was regularly done in hospitals we are designing this system which can be benefited for the patients and hospital staff and, we'd like to possess this system which helps hospital to do work fast and effective.

Modules:

1. Admin

- Login/Registration
- View/Delete Consultations
- Create, manage accounts except patients
- Update fees and items of lab/pharmacy
- Monitoring and managing hospital (every module and rooms/bed)

2. Patient

- Login/Registrations
- View/book consultations
- Status – Rooms/fees
- Edit profile – personal details

3. Receptionist

- Login
- Book appointment for outpatients – without login
- Available doctors for consults
- Rooms access
- Edit profile – personal details

4. Doctor

- Login
- View patients and medical history
- Prescribe medications
- Edit profile – personal details

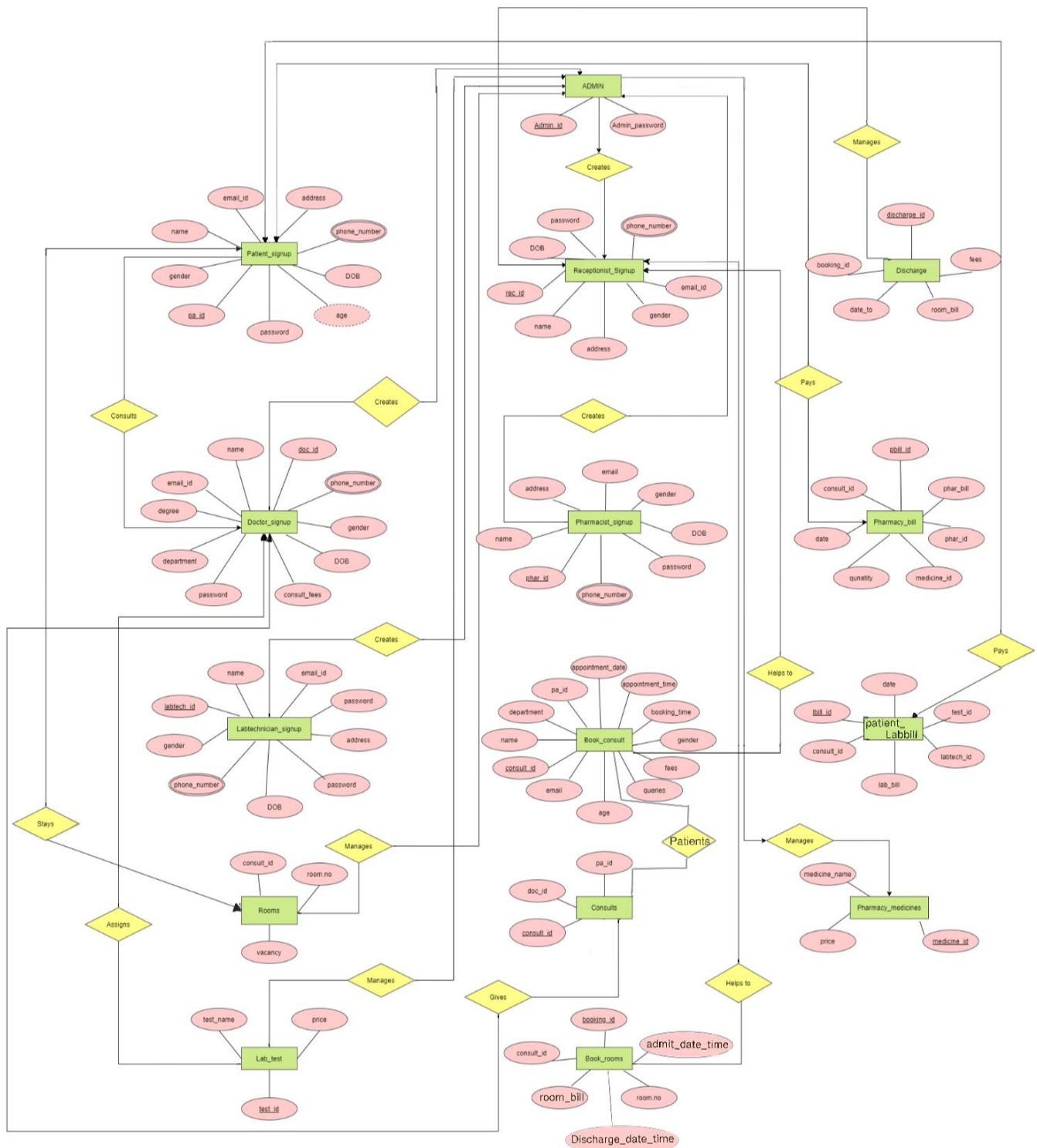
5. Pharmacy

- Login
- Medicine availability/update
- Billing
- Edit profile – personal details

6. Lab

- Login
- Lab-test report
- Billing
- Edit profile – personal details

ER DIAGRAM:



SCHEMA FROM ER DIAGRAM:

NORMALISATION

Table before Normalisation:

Hospital(Admin_id, Admin_password doc_id, doc_name, doc_password, degree, doc_dob, doc_department, doc_email, doc_phone_no, labtech_id, labtech_name, labtech_password, labtech_gender, labtech_dob, labtech_Address, labtech_email, labtech_phone_no, patient_id, patient_name, patient_password, patient_gender, patient_dob, , patient_address, patient_age, patient_email, patient_phone_no, phar_id, phar_name, phar_password, phar_gender, phar_dob, phar_Address, phar_email, phar_phone_no, rec_id, rec_name, rec_password, rec_gender ,rec_dob, rec_address, rec_phone_no, rec_email, consult_id, queries, appointment_fees, booking_date_time, appointment_date_time, test_id, test_name, test_price, lbill_time, medicine_id, medicine_name, medicine_price, med_quantity, bill_date, room_no, vacancy, booking_id, admit_date_time, discharge_date_time, room_bill, fees)

Table in 1NF:

Pat_phone(patient_id, patient_phone_no)

Doc_phone(doc_id, doc_phone_no)

Rec_phone(rec_id, rec_phone_no)

pharmacist_phone(phar_id, phar_phone_no)

labtech_phone (labtech_id, labtech_phone_no)

Hospital(Admin_id, Admin_password doc_id, doc_name, doc_password, degree, doc_dob, doc_department, doc_gender, doc_email, consult_fee, labtech_id, labtech_name, labtech_password, labtech_gender, labtech_dob, labtech_Address, labtech_email, patient_id, patient_name, patient_password, patient_gender, patient_dob, , patient_address, patient_age, patient_email, phar_id, phar_name, phar_password, phar_gender, phar_dob, phar_Address, phar_email, rec_id, rec_name, rec_password, rec_gender ,rec_dob, rec_address, rec_email, consult_id, queries, appointment_fees, booking_date_time, appointment_date_time, test_id

, test_name, test_price, lbill_time, medicine_id, medicine_name, medicine_price, med_quantity, bill_date, room_no, vacancy, booking_id, admit_date_time, discharge_date_time, room_bill, fees, bill_time, lab_time)

Table in 2NF:

Pat_phone (patient_id, patient_phone_no)

Doc_phone(doc_id, doc_phone_no)

Rec_phone(rec_id, rec_phone_no)

phar_phone(phar_id, phar_phone_no)

labtech_phone(labtech_id, labtech_phone_no)

admin_table(admin_id, admin_password)

doctor(doc_id, doc_name, doc_password, degree, doc_dob, doc_department, doc_gender, doc_consult_fees, doc_email)
labtechnician(labtech_id, labtech_name, labtech_password, labtech_gender, labtech_dob, labtech_Address, labtech_email)

patient(patient_id, patient_name, patient_password, patient_gender, patient_dob,, patient_address, patient_age, patient_email)
pharmacist(phar_id, phar_name, phar_password, phar_gender, phar_dob, phar_Address, phar_email)

receptionist(rec_id, rec_name, rec_password, rec_gender, rec_dob, rec_address, rec_email)
book_consult(consult_id, patient_id, doc_id, queries, appointment_fees, booking_date_time, appointment_date_time)

labtest_list (test_id, test_name, test_price)

medicine_list (medicine_id, medicine_name, medicine_price)

room(room_no, vacancy)

room_book(booking_id, patient_id, admit_date_time, discharge_date_time, room_bill, fees, Room_no)

patient_medicine(patient_id, medicine_id, phar_id, med_quantity, bill_date, bill_time)

patient_labtest(patient_id, test_id, labtech_id, lab_time, lab_time)

Table in 3NF:

admin_table(admin_id, admin_password)

doctor(doc_id, doc_name, doc_password,
degree, doc_dob, doc_department, doc_gender, doc_consult_fees)

doc_mail(doc_id, doc_email)

doc_phone(doc_id, doc_phone_no)

labtechnician(labtech_id, labtech_name, labtech_password, labtech_gender, labtech_dob, labtech_Address)

labtech_mail(labtech_id, labtech_email)

labtech_phone (labtech_id, labtech_phone_no)

patient(patient_id, patient_name, patient_password, patient_gender, patient_dob, , patient_address, patient_age)

patient_mail(patient_id, patient_email)

patient_phone (patient_id, patient_phone_no)

pharmacist(phar_id, phar_name, phar_password, phar_gender, phar_dob, phar_Address)

phar_mail(phar_id, phar_email)

pharmacist_phone(phar_id, phar_phone_no)

receptionist(rec_id, rec_name, rec_password, rec_gender, rec_dob, rec_address)

rec_phone(rec_id, rec_phone_no)

rec_mail(rec_id, rec_email)

book_consult(consult_id, queries, appointment_fees, booking_date_time, appointment_date_time)

consult_patient_id(consult_id, patient_id)

labtest_list (test_id, test_name, test_price)

medicine_list (medicine_id, medicine_name, medicine_price)

room(room_no, vacancy)

oom_book(booking_id, admit_date_time, discharge_date_time, room_bill, fees, Room_no)

rbook_patient_id(booking_id, patient_id)

patient_medicine(patient_id, medicine_id, med_quantity, bill_date)

patient_labtest(patient_id, test_id, lbill_time)

phar_patient_id(patient_id, phar_id, bill_time)

labtech_patient_id(patient_id, Labtech_id, lab_time)

doc_patient_id(patient_id, doc_id)

Here, every non-prime attribute is dependent on the super key, so the table is already in 3.5 NF.

TABLE CREATION:

1) Admin

```
1 drop table admin_table;
2 create table admin_table(admin_id varchar2(10) ,
3                           admin_password varchar2(20),
4                           check(length(admin_password)>=8),
5                           check(REGEXP_LIKE (admin_password,'[0-9]')),
6                           check(REGEXP_LIKE (admin_password,'[a-z]')),
7                           check(REGEXP_LIKE (admin_password,'[A-Z]')),
8                           check(REGEXP_LIKE (admin_password,'[@#$$%^&*_-]')),
9                           constraint pk_admin primary key(admin_id));
10
11
12
13 insert into admin_table values('AD001','Admin#123');
14 insert into admin_table values('AD002','Admin@345');
15 insert into admin_table values('AD003','Admin%678');
16 insert into admin_table values('AD004','Admin@901');
17 select * from admin_table
```

ADMIN_ID	ADMIN_PASSWORD
AD001	Admin#123
AD002	Admin@345
AD003	Admin%678
AD004	Admin@901

[Download CSV](#)

4 rows selected.

2) Doctor

```
20 drop table doctor;
21 create table doctor(doc_id varchar2(10),
22                    doc_name varchar2(20) not null,
23                    doc_password varchar2(20) not null,
24                    degree varchar2(10) not null,
25                    doc_dob date not null,
26                    doc_department varchar2(20) not null,
27                    doc_gender varchar2(10) not null,
28                    doc_consult_fees integer not null,
29                    check(length(doc_password)>=8),
30                    check(REGEXP_LIKE (doc_password,'[0-9]')),
31                    check(REGEXP_LIKE (doc_password,'[a-z]')),
32                    check(REGEXP_LIKE (doc_password,'[A-Z]')),
33                    check(REGEXP_LIKE (doc_password,'[@#$$%^&*?.,;~_-]')),
34                    constraint pk_doc primary key(doc_id));
35
36 insert into doctor values('DOC001', 'Daniel', 'Danielhp12', 'BDS', to_date('1989-07-23','yyyy-mm-dd'), 'Dentistry', 'Male', 1000);
37 insert into doctor values('DOC002', 'Jessy', 'Jess#1241', 'MBBS', to_date('1992-02-10','yyyy-mm-dd'), 'Neurology', 'Female', 1200);
38 insert into doctor values('DOC003', 'Tony Stark', 'Tonystark%234', 'MBBS', to_date('1993-11-08','yyyy-mm-dd'), 'Cardiology', 'Male', 1000);
39 insert into doctor values('DOC004', 'Bruce Banner', 'Greenhulk@hydra34', 'BPT, MPT', to_date('1997-08-05','yyyy-mm-dd'), 'Physiotherapy', 'Male', 1500);
40 insert into doctor values('DOC005', 'Kavya', 'Kavya$2001', 'MBBS, DNB', to_date('1976-05-03','yyyy-mm-dd'), 'Paediatrics', 'Female', 1000);
41 insert into doctor values('DOC006', 'Franklin', 'Franklin_2002', 'BHMS', to_date('1997-04-25','yyyy-mm-dd'), 'Dentistry', 'Male', 1000);
42 insert into doctor values('DOC007', 'Grams', 'Grams@345', 'MBBS, MD', to_date('1988-07-22','yyyy-mm-dd'), 'General medicine', 'Female', 1300);
43 insert into doctor values('DOC008', 'Nick', 'Nicky@2345', 'BDS', to_date('1978-05-12','yyyy-mm-dd'), 'Dentistry', 'Male', 1500);
44 insert into doctor values('DOC009', 'Carrie', 'Car@3451', 'MBBS', to_date('1988-06-25','yyyy-mm-dd'), 'Gynecologist', 'Female', 1000);
45 insert into doctor values('DOC010', 'Sandra', 'Sandra#452', 'MBBS,MD', to_date('1977-09-04','yyyy-mm-dd'), 'Cardiology', 'Female', 1200);
46 select * from doctor;
```

DOC_ID	DOC_NAME	DOC_PASSWORD	DEGREE	DOC_DOB	DOC_DEPARTMENT	DOC_GENDER	DOC_CONSULT_FEES
DOC001	Daniel	Danielhp@12	BDS	23-JUL-89	Dentistry	Male	1000
DOC002	Jessy	Jess#1241	MBBS	10-FEB-92	Neurology	Female	1200
DOC003	Tony Stark	Tonystark%234	MBBS	08-NOV-93	Cardiology	Male	1000
DOC004	Bruce Banner	Greenhulk@hydra34	BPT, MPT	05-AUG-97	Physiotherapy	Male	1500
DOC005	Kavya	Kavya\$2001	MBBS, DNB	03-MAY-76	Paediatrics	Female	1000
DOC006	Franklin	Franklin_2002	BHMS	25-APR-97	Dentistry	Male	1000
DOC007	Grams	Grams@345	MBBS, MD	22-JUL-88	General medicine	Female	1300
DOC008	Nick	Nicky@2345	BDS	12-MAY-78	Dentistry	Male	1500
DOC009	Carrie	Car@3451	MBBS	25-JUN-88	Gynecologist	Female	1000
DOC010	Sandra	Sandra#452	MBBS,MD	04-SEP-77	Cardiology	Female	1200

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10 rows selected.

3) Doc_mail

```

48 drop table doc_mail;
49 create table doc_mail(doc_id varchar2(10) not null,
50                      doc_email varchar2(30) not null unique,
51                      constraint fk_doctor_mail foreign key(doc_id) references doctor(doc_id),
52                      constraint pk_doc_email primary key(doc_id),
53                      check (doc_email like '%@%_%'));
54
55
56
57 insert into doc_mail values('DOC001', 'doctordaniel@gmail.com');
58 insert into doc_mail values('DOC002', 'jessia@yahoo.com');
59 insert into doc_mail values('DOC003', 'tonystarkindustries@gmail.com');|
60 insert into doc_mail values('DOC004', 'drbruce7phd@gmail.com');
61 insert into doc_mail values('DOC005', 'doctorkavyasiva@gmail.com');
62 insert into doc_mail values('DOC006', 'franklin234@gmail.com');
63 insert into doc_mail values('DOC007', 'grams#345@gmail.com');
64 insert into doc_mail values('DOC008', 'nicky43@yahoo.com');
65 insert into doc_mail values('DOC009', 'carri24@outlook.com');
66 insert into doc_mail values('DOC010', 'sandra345@yahoo.com');
67 select * from doc_mail;

```

DOC_ID	DOC_EMAIL
DOC001	doctordaniel@gmail.com
DOC002	jessia@yahoo.com
DOC003	tonystarkindustries@gmail.com
DOC004	drbruce7phd@gmail.com
DOC005	doctorkavyasiva@gmail.com
DOC006	franklin234@gmail.com
DOC007	grams#345@gmail.com
DOC008	nicky43@yahoo.com
DOC009	carri24@outlook.com
DOC010	sandra345@yahoo.com

[Download CSV](#)

10 rows selected.

4) Doc_phone

```

70 drop table doc_phone;
71 create table doc_phone(doc_id varchar2(20) not null,
72                        doc_phone_no integer not null unique,
73                        constraint fk_doctor_phone foreign key(doc_id) references doctor(doc_id),
74                        check(length(doc_phone_no)=10));
75
76 insert into doc_phone values('DOC001',8451654155);
77 insert into doc_phone values('DOC001',9578402365);
78 insert into doc_phone values('DOC002', 8451236985);
79 insert into doc_phone values('DOC002', 9454154784);
80 insert into doc_phone values('DOC003', 9641548451);
81 insert into doc_phone values('DOC004', 7489741514);
82 insert into doc_phone values('DOC005', 9018664666);
83 insert into doc_phone values('DOC006', 9854673452);
84 insert into doc_phone values('DOC006', 8765410963);
85 insert into doc_phone values('DOC007', 8976356278);
86 insert into doc_phone values('DOC008', 8765431093);
87 insert into doc_phone values('DOC009', 7645190356);
88 insert into doc_phone values('DOC010', 9874563451);
89
90 select * from doc_phone;
91

```

DOC_ID	DOC_PHONE_NO
DOC001	8451654155
DOC001	9578402365
DOC002	8451236985
DOC002	9454154784
DOC003	9641548451
DOC004	7489741514
DOC005	9018664666
DOC006	9854673452
DOC006	8765410963
DOC007	8976356278
DOC008	8765431093
DOC009	7645190356
DOC010	9874563451

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13 rows selected.

5) Lab_technician

```

93 drop table labtechnician;
94 create table labtechnician (labtech_id varchar2(10),
95                             labtech_name varchar2(50) not null,
96                             labtech_password varchar2(50) not null,
97                             labtech_gender varchar2(10) not null,
98                             labtech_dob date not null,
99                             labtech_address varchar2(100) not null,
100                             check(length(labtech_password)>=8),
101                             check(REGEXP_LIKE (labtech_password,'[0-9]')),
102                             check(REGEXP_LIKE (labtech_password,'[a-z]')),
103                             check(REGEXP_LIKE (labtech_password,'[A-Z]')),
104                             check(REGEXP_LIKE (labtech_password,'[!@#$%^&*?.,;~_-]')),
105                             constraint pk_labtech primary key(labtech_id));
106
107 insert into labtechnician values('LT001', 'Suriya', 'Suriya1977##', 'Male', to_date('1993-11-10','yyyy-mm-dd'), '123, periyar street, coimbatore -601839');
108 insert into labtechnician values('LT002', 'Ram', 'Ram25004', 'Male', to_date('1996-11-20','yyyy-mm-dd'), '98/3, mullai street, pollachi -389924');
109 insert into labtechnician values('LT003', 'Tom', 'Tomcruise@124', 'Male', to_date('2014-03-10','yyyy-mm-dd'), '139, Argonne street, california-328758');
110 insert into labtechnician values('LT004', 'Elena', '#Eleelena8', 'Female', to_date('1987-02-17','yyyy-mm-dd'), '89, Buckingham street, elliot road, paris-190435');
111 insert into labtechnician values('LT005', 'Aditi', '12Aditi.q', 'Female', to_date('1995-01-31','yyyy-mm-dd'), '208, white pine lane, virginia -374258');
112 insert into labtechnician values('LT006', 'Caroline', 'Carol#2001', 'Female', to_date('2001-07-19','yyyy-mm-dd'), '396, creek side lane, utah-285292');
113 insert into labtechnician values('LT007', 'Stefan', 'Stefan93258#', 'Male', to_date('2002-08-22','yyyy-mm-dd'), '221, Augusta country lane, Georgia-735865');
114 insert into labtechnician values('LT008', 'Damon', 'Dam$8490', 'Male', to_date('1972-10-26','yyyy-mm-dd'), '308, Farm beach garden, Florida-326578');
115 insert into labtechnician values('LT009', 'Jeremy', 'Jerm123%$', 'Male', to_date('1971-05-28','yyyy-mm-dd'), '245, Tera street, Seattle-238574');
116 insert into labtechnician values('LT010', 'Viola', 'ViolaV$234', 'Female', to_date('1964-07-31','yyyy-mm-dd'), '500, feathers hooves drive, newyork-827586');
117 select * from labtechnician;
118

```

LABTECH_ID	LABTECH_NAME	LABTECH_PASSWORD	LABTECH_GENDER	LABTECH_DOB	LABTECH_ADDRESS
LT001	Suriya	Suriya1977##	Male	10-NOV-93	123, periyar street, coimbatore -601839
LT002	Ram	Ram2\$004	Male	20-NOV-96	98/3, mullai street, pollachi -389924
LT003	Tom	Tomcruise@124	Male	10-MAR-14	139, Argonne street, california-328758.
LT004	Elena	#Eleelena8	Female	17-FEB-87	89, Buckingham street, elliot road, paris-190435.
LT005	Aditi	12Aditi.q	Female	31-JAN-95	208, white pine lane, virginia -374258.
LT006	Caroline	Carol#2001	Female	19-JUL-01	396, creek side lane, utah-285292.
LT007	Stefan	Stefan93258#	Male	22-AUG-02	221, Augusta country lane, Georgia-735865.
LT008	Damon	Dam\$&*90	Male	26-OCT-72	308, Farm beach garden, Florida-326578.
LT009	Jeremy	Jerm123%%	Male	28-MAY-71	245, Tera street, Seattle-238574.
LT010	Viola	ViolaV\$234	Female	31-JUL-64	500, feathers hooves drive, newyork-827586.

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10 rows selected.

6) Labtech_mail

```

119
120 drop table labtech_mail;
121 create table labtech_mail(labtech_id varchar2(10) not null,
122                          labtech_email varchar2(30) not null unique,
123                          constraint fk_labtech_mail foreign key(labtech_id) references labtechnician(labtech_id),
124                          constraint pk_labtech_email primary key(labtech_id),
125                          check (labtech_email like '%@%_%'));
126
127 insert into labtech_mail values('LT001', 'suriya.123@yahoo.com' );
128 insert into labtech_mail values('LT002', 'rammy2@outlook.com');
129 insert into labtech_mail values('LT003', 'tomcruise@gmail.com');|
130 insert into labtech_mail values('LT004', 'elenadamon@dmil.com');
131 insert into labtech_mail values('LT005', 'aditi1234@outlook.com');
132 insert into labtech_mail values('LT006', 'caroline@gmail.com');
133 insert into labtech_mail values('LT007', 'stefencaroline@gmail.com');
134 insert into labtech_mail values('LT008', 'damon89@yahoo.com');
135 insert into labtech_mail values('LT009', 'jeremy@edr.com');
136 insert into labtech_mail values('LT010', 'Violapurple@yahoo.com');
137 select * from labtech_mail;

```

LABTECH_ID	LABTECH_EMAIL
LT001	suriya.123@yahoo.com
LT002	rammy2@outlook.com
LT003	tomcruise@gmail.com
LT004	elenadamon@dmil.com
LT005	aditi1234@outlook.com
LT006	caroline@gmail.com
LT007	stefencaroline@gmail.com
LT008	damon89@yahoo.com
LT009	jeremy@edr.com
LT010	Violapurple@yahoo.com

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10 rows selected.

7) Labtech_phone

```
140 drop table labtech_phone;
141 create table labtech_phone(labtech_id varchar2(20) not null,
142                             labtech_phone_no integer not null unique,
143                             constraint fk_labtech_phone foreign key(labtech_id) references labtechnician(labtech_id),
144                             check(length(labtech_phone_no)=10));
145 |
146 insert into labtech_phone values('LT001', 9673263772);
147 insert into labtech_phone values('LT002', 9812345672);
148 insert into labtech_phone values('LT003', 7654289012);
149 insert into labtech_phone values('LT004', 8765209431);
150 insert into labtech_phone values('LT004', 8765332312);
151 insert into labtech_phone values('LT005', 9864563219);
152 insert into labtech_phone values('LT006', 7657891235);
153 insert into labtech_phone values('LT006', 8790634521);
154 insert into labtech_phone values('LT007', 6789543217);
155 insert into labtech_phone values('LT008', 8976540912);
156 insert into labtech_phone values('LT009', 6789432156);
157 insert into labtech_phone values('LT010', 8723416789);
158 insert into labtech_phone values('LT010', 9856432789);
159
160 select * from labtech_phone;
```

LABTECH_ID	LABTECH_PHONE_NO
LT001	9673263772
LT002	9812345672
LT003	7654289012
LT004	8765209431
LT004	8765332312
LT005	9864563219
LT006	7657891235
LT006	8790634521
LT007	6789543217
LT008	8976540912
LT009	6789432156
LT010	8723416789
LT010	9856432789

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13 rows selected.

8) Patient

```

163 drop table patient;
164 create table patient (patient_id varchar2(10) not null,
165                        patient_name varchar2(20) not null,
166                        patient_password varchar2(20) not null,
167                        patient_gender varchar2(10) not null,
168                        patient_dob date not null,
169                        patient_address varchar2(100) not null,
170                        patient_age integer,
171                        check(length(patient_password)=8),
172                        check(REGEXP_LIKE (patient_password, '[0-9]')),
173                        check(REGEXP_LIKE (patient_password, '[a-z]')),
174                        check(REGEXP_LIKE (patient_password, '[A-Z]')),
175                        check(REGEXP_LIKE (patient_password, '[!@#$%^&*~.-_~]')),
176                        constraint pk_patient primary key(patient_id));
177
178 create or replace TRIGGER db
179 After insert ON patient
180 begin
181 update patient set patient_age = to_char(sysdate,'yyyy')- extract (year from patient_dob);
182 end;
183
184 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT001','Steven','Steven@07','Male',to_date('1987-09-23','yyyy-mm-dd'),'345,georgia street,USA-098752');
185 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT002','Regina','Regina#45','Female',to_date('1977-04-11','yyyy-mm-dd'),'34,sector 18,rohini,delhi-875643');
186 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT003','David','Dav@3465','Male',to_date('1988-10-20','yyyy-mm-dd'),'39,Sajwat complex,Mumbai-9876541');
187 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT004','Halim','Halim$235','Male',to_date('2007-02-05','yyyy-mm-dd'),'67,Nava pool,Nagarwada-986732');
188 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT005','Lomal','Loma!8564','Male',to_date('1980-01-17','yyyy-mm-dd'),'24,railway colony,nerul-7654389');
189 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT006','Jerry','Jerry#745','Male',to_date('1985-04-19','yyyy-mm-dd'),'268,front street,michigan');
190 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT007','Bonnie','Bon$3452','Female',to_date('1982-05-19','yyyy-mm-dd'),'142,timber brook lane,Colorado-786543');
191 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT008','Maria','Maria@34565','Female',to_date('1972-11-29','yyyy-mm-dd'),'279,Fancher Drive, Texas-786543');
192 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT009','Katherine','Kath#564','Female',to_date('1970-10-30','yyyy-mm-dd'),'243,Karen lane,kentucky-765478');
193 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT010','Freya','Freya#345','Female',to_date('1987-07-23','yyyy-mm-dd'),'345,forest avenue,Elmsord-328954');
194 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT011','Hasera','Hasi_273','Female',to_date('1989-12-23','yyyy-mm-dd'),'453,manchester street,california-657367');
195 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT012','Quetsiyah','Qyet#5678','Female',to_date('1974-03-18','yyyy-mm-dd'),'91,turkey pen lane,dothan-987456');
196 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT013','Henry','Henry%457','Male',to_date('1971-11-08','yyyy-mm-dd'),'30,wrighter street,albama-657098');
197 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT014','Newton','NewT@345','Male',to_date('1988-08-12','yyyy-mm-dd'),'89,quilly lane wester ville-768904');
198 insert into patient(patient_id,patient_name,patient_password,patient_gender,patient_dob,patient_address) values('PAT015','Jensen','Jen#4567','Male',to_date('1980-09-04','yyyy-mm-dd'),'258,frosty street,candor-678943');
199 select * from patient;

```

PATIENT_ID	PATIENT_NAME	PATIENT_PASSWORD	PATIENT_GENDER	PATIENT_DOB	PATIENT_ADDRESS	PATIENT_AGE
PAT001	Steven	Steven@07	Male	23-SEP-87	345,georgia street,USA-098752	34
PAT002	Regina	Regina#45	Female	11-APR-77	34,sector 18,rohini,delhi-875643	44
PAT003	David	Dav@3465	Male	20-OCT-88	39,Sajwat complex,Mumbai-9876541	33
PAT004	Halim	Halim\$235	Male	05-FEB-07	67,Nava pool,Nagarwada-986732	14
PAT005	Lomal	Loma!8564	Male	17-JAN-80	24,railway colony,nerul-7654389	41
PAT006	Jerry	Jerry#745	Male	19-APR-85	268,front street,michigan	36
PAT007	Bonnie	Bon\$3452	Female	19-MAY-82	142,timber brook lane,Colorado-786543	39
PAT008	Maria	Maria@34565	Female	29-NOV-72	279,Fancher Drive, Texas-786543	49
PAT009	Katherine	Kath#564	Female	30-OCT-70	243,Karen lane,kentucky-765478	51
PAT010	Freya	Freya#345	Female	23-JUL-87	345,forest avenue,elmsord-328954	34
PAT011	Hasera	Hasi_273	Female	23-DEC-89	453,manchester street,california-657367.	32
PAT012	Quetsiyah	Qyet#5678	Female	18-MAR-74	91,turkey pen lane,dothan-987456	47
PAT013	Henry	Henry%457	Male	08-NOV-71	30,wrighter street,albama-657098	50
PAT014	Newton	NewT@345	Male	12-AUG-88	89,quilly lane wester ville-768904	33
PAT015	Jensen	Jen#4567	Male	04-SEP-80	258,frosty street,candor-678943	41

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15 rows selected.

9) Patient_mail

```

203 drop table patient_mail;
204 create table patient_mail(patient_id varchar2(10) not null,
205                             patient_email varchar2(30) not null unique,
206                             constraint fk_patient_mail foreign key(patient_id) references patient(patient_id),
207                             constraint pk_patient_email primary key(patient_id),
208                             check (patient_email like '%_@%_%'));
209
210 insert into patient_mail values('PAT001', 'steven123@gmail.com');
211 insert into patient_mail values('PAT002', 'regina1234@gmail.com');
212 insert into patient_mail values('PAT003', 'david34@outlook.com');
213 insert into patient_mail values('PAT004', 'halim234@yahoo.com');
214 insert into patient_mail values('PAT005', 'lomal234@gmail.com');
215 insert into patient_mail values('PAT006', 'jerry453@gmail.com');
216 insert into patient_mail values('PAT007', 'bonnie378@microsoft.com');
217 insert into patient_mail values('PAT008', 'maria234@gmail.com');
218 insert into patient_mail values('PAT009', 'katherine345@meta.com');
219 insert into patient_mail values('PAT010', 'freya345@insta.com');
220 insert into patient_mail values('PAT011', 'hasera3467@gmail.com');
221 insert into patient_mail values('PAT012', 'quetsiyah289@outlook.com');
222 insert into patient_mail values('PAT013', 'henry89@microsoft.com');
223 insert into patient_mail values('PAT014', 'newton456@gmail.com');
224 insert into patient_mail values('PAT015', 'jensen45@facebook.com');
225 select * from patient_mail;

```

PATIENT_ID	PATIENT_EMAIL
PAT001	steven123@gmail.com
PAT002	regina1234@gmail.com
PAT003	david34@outlook.com
PAT004	halim234@yahoo.com
PAT005	lomal234@gmail.com
PAT006	jerry453@gmail.com
PAT007	bonnie378@microsoft.com
PAT008	maria234@gmail.com
PAT009	katherine345@meta.com
PAT010	freya345@insta.com
PAT011	hasera3467@gmail.com
PAT012	quetsiyah289@outlook.com
PAT013	henry89@microsoft.com
PAT014	newton456@gmail.com
PAT015	jensen45@facebook.com

[Download CSV](#)

15 rows selected.

10) Patient_phone

```

228 drop table patient_phone;
229 create table patient_phone(patient_id varchar2(20) not null,
230                             patient_phone_no integer not null unique,
231                             constraint fk_patient_phone foreign key(patient_id) references patient(patient_id),
232                             check(length(patient_phone_no)=10));
233
234 insert into patient_phone values('PAT001', 8765309875);
235 insert into patient_phone values('PAT001', 8790634567);
236 insert into patient_phone values('PAT002', 7890543678);
237 insert into patient_phone values('PAT003', 8764325678);
238 insert into patient_phone values('PAT004', 6789034567);
239 insert into patient_phone values('PAT004', 8765389026);
240 insert into patient_phone values('PAT005', 9854673456);
241 insert into patient_phone values('PAT006', 8765234679);
242 insert into patient_phone values('PAT006', 8907654316);
243 insert into patient_phone values('PAT007', 7653890245);
244 insert into patient_phone values('PAT008', 6789435126);
245 insert into patient_phone values('PAT009', 7890345618);
246 insert into patient_phone values('PAT010', 8753912689);
247 insert into patient_phone values('PAT011', 9746728901);
248 insert into patient_phone values('PAT012', 8646728901);
249 insert into patient_phone values('PAT013', 8764390256);
250 insert into patient_phone values('PAT014', 8763589025);
251 insert into patient_phone values('PAT015', 7654328901);
252 insert into patient_phone values('PAT015', 7890453217);
253 select * from patient_phone;
254

```

PATIENT_ID	PATIENT_PHONE_NO
PAT001	8765309875
PAT001	8790634567
PAT002	7890543678
PAT003	8764325678
PAT004	6789034567
PAT004	8765389026
PAT005	9854673456
PAT006	8765234679
PAT006	8907654316
PAT007	7653890245
PAT008	6789435126
PAT009	7890345618
PAT010	8753912689
PAT011	9746728901
PAT012	8646728901
PAT013	8764390256
PAT014	8763589025
PAT015	7654328901
PAT015	7890453217

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19 rows selected.

11) Pharmacist

```

257 drop table pharmacist;
258 create table pharmacist(phar_id varchar2(20),
259                          phar_name varchar2(20) not null,
260                          phar_password varchar2(20) not null,
261                          phar_gender varchar2(10) not null,
262                          phar_dob date not null,
263                          phar_address varchar2(100) not null,
264                          check(length(phar_password)>=8),
265                          check(REGEXP_LIKE (phar_password, '[0-9]')),
266                          check(REGEXP_LIKE (phar_password, '[a-z]')),
267                          check(REGEXP_LIKE (phar_password, '[A-Z]')),
268                          check(REGEXP_LIKE (phar_password, '[!@#$%&*?.,;~_-]')),
269                          constraint pk_phar primary key(phar_id));
270
271 insert into pharmacist values('PHAR001', 'Ken', 'Keny#657', 'Male', to_date('1986-02-13','yyyy-mm-dd'),'45,FGR Street, Gujarat-768453');
272 insert into pharmacist values('PHAR002', 'Silas', 'Silas@3465', 'Male', to_date('1984-01-20','yyyy-mm-dd'),'35,north cersent, singapore-874239');
273 insert into pharmacist values('PHAR003', 'Jian', 'Jian*234', 'Male', to_date('1974-11-20','yyyy-mm-dd'),'42,industrial state,singapore-965432');
274 insert into pharmacist values('PHAR004', 'Denver', 'Deny&456', 'Male', to_date('1974-05-23','yyyy-mm-dd'),'67, bellard street,georgia-895643');
275 insert into pharmacist values('PHAR005', 'Klaus', 'Klaus342#', 'Female', to_date('1984-07-23','yyyy-mm-dd'),'100,Peach circle,cotes-567243');
276 insert into pharmacist values('PHAR006', 'Gwen', 'Gwen& 5643', 'Female', to_date('1986-05-23','yyyy-mm-dd'),'96,Vicar Lane,sandget-654389');
277 select * from pharmacist;

```

PHAR_ID	PHAR_NAME	PHAR_PASSWORD	PHAR_GENDER	PHAR_DOB	PHAR_ADDRESS
PHAR001	Ken	Keny#657	Male	13-FEB-86	45,FGR Street, Gujarat-768453
PHAR002	Silas	Silas@3465	Male	20-JAN-84	35,north cersent, singapore-874239
PHAR003	Jian	Jian*234	Male	20-NOV-74	42,industrial state,singapore-965432
PHAR004	Denver	Deny&456	Male	23-MAY-74	67, bellard street,georgia-895643
PHAR005	Klaus	Klaus342#	Female	23-JUL-84	100,Peach circle,cotes-567243
PHAR006	Gwen	Gwen& 5643	Female	23-MAY-86	96,Vicar Lane,sandget-654389

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6 rows selected.

12) Phar_mail

```

280 drop table phar_mail;
281 create table phar_mail(phar_id varchar2(10) not null,
282                        phar_email varchar2(30) not null unique,
283                        constraint fk_phar_mail foreign key(phar_id) references pharmacist(phar_id),
284                        constraint pk_phar_email primary key(phar_id),
285                        check (phar_email like '%_@_%._%'));
286
287 insert into phar_mail values('PHAR001', 'ken234@gmail.com');
288 insert into phar_mail values('PHAR002', 'silas564@outlook.com');
289 insert into phar_mail values('PHAR003', 'jian2346@microsoft.com');
290 insert into phar_mail values('PHAR004', 'denver567@gmail.com');
291 insert into phar_mail values('PHAR005', 'klaus67@gmail.com');
292 insert into phar_mail values('PHAR006', 'gwen67@yahoo.com');
293 select * from phar_mail;

```

PHAR_ID	PHAR_EMAIL
PHAR001	ken234@gmail.com
PHAR002	silas564@outlook.com
PHAR003	jian2346@microsoft.com
PHAR004	denver567@gmail.com
PHAR005	klaus67@gmail.com
PHAR006	gwen67@yahoo.com

Download CSV

6 rows selected.

13) Phar_phone

```

296 drop table phar_phone;
297 create table phar_phone(phar_id varchar2(20) not null,
298                          phar_phone_no integer not null unique,
299                          constraint fk_phar_phone foreign key(phar_id) references pharmacist(phar_id),
300                          check(length(phar_phone_no)=10));
301
302 insert into phar_phone values('PHAR001', 9867356710);
303 insert into phar_phone values('PHAR002', 9876452490);
304 insert into phar_phone values('PHAR003', 6789352781);
305 insert into phar_phone values('PHAR003', 8906534278);
306 insert into phar_phone values('PHAR004', 7645190342);
307 insert into phar_phone values('PHAR005', 7890432678);
308 insert into phar_phone values('PHAR006', 8763529017);
309 insert into phar_phone values('PHAR006', 8906534789);
310 select * from phar_phone;

```

PHAR_ID	PHAR_PHONE_NO
PHAR001	9867356710
PHAR002	9876452490
PHAR003	6789352781
PHAR003	8906534278
PHAR004	7645190342
PHAR005	7890432678
PHAR006	8763529017
PHAR006	8906534789

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8 rows selected.

14) Receptionist

```

313 drop table receptionist;
314 create table receptionist(rec_id varchar2(10),
315                           rec_name varchar(20) not null,
316                           rec_password varchar(20) not null,
317                           rec_gender varchar(20) not null,
318                           rec_dob date not null,
319                           rec_address varchar(250) not null,
320                           check(length(rec_password)>=8),
321                           check(REGEXP_LIKE (rec_password,'[0-9]')),
322                           check(REGEXP_LIKE (rec_password,'[a-z]')),
323                           check(REGEXP_LIKE (rec_password,'[A-Z]')),
324                           check(REGEXP_LIKE (rec_password,'[!@#$%^&*?.,;~_-''))),
325                           constraint pk_rec primary key(rec_id));
326
327 insert into receptionist values('REC001', 'Yaseen', 'Yasen$12', 'Female', to_date('1971-03-21','yyyy-mm-dd'), '142, dumbo colony, persia-732485');
328 insert into receptionist values('REC002', 'Jim', 'Jim;01234', 'Male', to_date('1974-06-27','yyyy-mm-dd'), '438, Doctors drive, Torance-365762. ');
329 insert into receptionist values('REC003', 'Chandler', 'Chandler%8764', 'Male', to_date('1975-09-07','yyyy-mm-dd'), '477, pinewood drive, alaska-726357. ');
330 insert into receptionist values('REC004', 'Dennis', 'Dennis^77847', 'Male', to_date('1972-04-27','yyyy-mm-dd'), '135, indiana avenue, Hawaii-387573. ');
331 insert into receptionist values('REC005', 'Bruno', 'Bruno1234@', 'Male', to_date('1990-03-31','yyyy-mm-dd'), '266, cessna drive, Indiana-382757. ');
332 select * from receptionist;

```

REC_ID	REC_NAME	REC_PASSWORD	REC_GENDER	REC_DOB	REC_ADDRESS
REC001	Yaseen	Yasen\$12	Female	21-MAR-71	142, dumbo colony, persia-732485
REC002	Jim	Jim;01234	Male	27-JUN-74	438, Doctors drive, Torance-365762.
REC003	Chandler	Chandler%8764	Male	07-SEP-75	477, pinewood drive, alaska-726357.
REC004	Dennis	Dennis^77847	Male	27-APR-72	135, indiana avenue, Hawaii-387573.
REC005	Bruno	Bruno1234@	Male	31-MAR-90	266, cessna drive, Indiana-382757.

[Download CSV](#)

5 rows selected.

15) Rec_mail

```

335 drop table rec_mail;
336 create table rec_mail(rec_id varchar2(10) not null,
337                        rec_email varchar2(30) not null unique,
338                        constraint fk_rec_mail foreign key(rec_id) references receptionist(rec_id),
339                        constraint pk_rec_email primary key(rec_id),
340                        check (rec_email like '%_%.%.%'));
341
342 insert into rec_mail values('REC001', 'yaseen37@yahoo.com');
343 insert into rec_mail values('REC002', 'jimrec@gmail.com');
344 insert into rec_mail values('REC003', 'chandler@outlook.com');
345 insert into rec_mail values('REC004', 'dennis1234@gmail.com');
346 insert into rec_mail values('REC005', 'brunosmi@gmail.com');
347 select * from rec_mail;
348

```

REC_ID	REC_EMAIL
REC001	yaseen37@yahoo.com
REC002	jimrec@gmail.com
REC003	chandler@outlook.com
REC004	dennis1234@gmail.com
REC005	brunosmi@gmail.com

[Download CSV](#)

5 rows selected.

16) Rec_phone

```

349 drop table rec_phone;
350 create table rec_phone(rec_id varchar2(20) not null,
351                        rec_phone_no integer not null unique,
352                        constraint fk_rec_phone foreign key(rec_id) references receptionist(rec_id),
353                        check(length(rec_phone_no)=10));
354
355
356 insert into rec_phone values('REC001', 9367564289);
357 insert into rec_phone values('REC002', 9637565332);
358 insert into rec_phone values('REC003', 7632782790);
359 insert into rec_phone values('REC003', 8652353273);
360 insert into rec_phone values('REC004', 6553576678);
361 insert into rec_phone values('REC005', 9645434676);
362 select * from rec_phone;
363
364

```

REC_ID	REC_PHONE_NO
REC001	9367564289
REC002	9637565332
REC003	7632782790
REC003	8652353273
REC004	6553576678
REC005	9645434676

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6 rows selected.

17) Book_consult

```

364
365 drop table book_consult;
366 create table book_consult(consult_id varchar2(20),
367 queries varchar2(200) not null,
368 appointment_fees integer not null,
369 booking_date_time timestamp default systimestamp not null,
370 appointment_date_time timestamp not null,
371 constraint pk_consult primary key(consult_id));
372
373
374 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON001', 'tooth ache', 1000, to_timestamp('2021-11-12 17:00:00', 'YYYY-MM-DD HH24:MI:SS'));
375 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON002', 'Left shoulder pain, chest pain', 1000, to_timestamp('2021-11-19 17:00:00', 'YYYY-MM-DD HH24:MI:SS'));
376 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON003', 'Stomach ache at late nights.', 500, to_timestamp('2021-11-18 18:30:00', 'YYYY-MM-DD HH24:MI:SS'));
377 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON004', 'Fever and cold', 500, to_timestamp('2021-11-10 17:30:00', 'YYYY-MM-DD HH24:MI:SS'));
378 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON005', 'Lower back ache.', 1000, to_timestamp('2021-11-18 11:30:00', 'YYYY-MM-DD HH24:MI:SS'));
379 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON006', 'neck pain', 1000, to_timestamp('2021-11-15 09:30:00', 'YYYY-MM-DD HH24:MI:SS'));
380 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON007', 'Regular checkup', 1000, to_timestamp('2021-11-20 08:30:00', 'YYYY-MM-DD HH24:MI:SS'));
381 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON008', 'Regular check up', 1000, to_timestamp('2021-11-14 14:30:00', 'YYYY-MM-DD HH24:MI:SS'));
382 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON009', 'Physiotherapy session', 500, to_timestamp('2021-11-23 14:30:00', 'YYYY-MM-DD HH24:MI:SS'));
383 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON010', 'Joint pain', 700, to_timestamp('2021-11-22 13:30:00', 'YYYY-MM-DD HH24:MI:SS'));
384 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON011', 'Head ache-sinus', 500, to_timestamp('2021-11-22 13:30:00', 'YYYY-MM-DD HH24:MI:SS'));
385 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON012', 'Food poisoning', 800, to_timestamp('2021-11-30 20:30:00', 'YYYY-MM-DD HH24:MI:SS'));
386 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON013', 'Cold and cough', 500, to_timestamp('2021-11-15 18:00:00', 'YYYY-MM-DD HH24:MI:SS'));
387 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON014', 'Spine problem', 700, to_timestamp('2021-11-16 15:30:00', 'YYYY-MM-DD HH24:MI:SS'));
388 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON015', 'leg pain', 500, to_timestamp('2021-11-20 14:30:00', 'YYYY-MM-DD HH24:MI:SS'));
389 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON016', 'stomach disorder', 1500, to_timestamp('2021-11-19 19:30:00', 'YYYY-MM-DD HH24:MI:SS'));
390 insert into book_consult(consult_id,queries,appointment_fees,appointment_date_time) values('CON017', 'check up', 500, to_timestamp('2021-11-20 14:30:00', 'YYYY-MM-DD HH24:MI:SS'));
391 select * from book_consult;
392

```

CONSULT_ID	QUERIES	APPOINTMENT_FEES	BOOKING_DATE_TIME	APPOINTMENT_DATE_TIME
CON001	tooth ache	1000	13-NOV-21 02.15.44.563360 PM	12-NOV-21 05.00.00.000000 PM
CON002	Left shoulder pain, chest pain	1000	13-NOV-21 02.15.44.568045 PM	19-NOV-21 05.00.00.000000 PM
CON003	Stomach ache at late nights.	500	13-NOV-21 02.15.44.572305 PM	18-NOV-21 06.30.00.000000 PM
CON004	Fever and cold	500	13-NOV-21 02.15.44.576189 PM	10-NOV-21 05.30.00.000000 PM
CON005	Lower back ache.	1000	13-NOV-21 02.15.44.580058 PM	18-NOV-21 11.30.00.000000 AM
CON006	neck pain	1000	13-NOV-21 02.15.44.583866 PM	15-NOV-21 09.30.00.000000 AM
CON007	Regular checkup	1000	13-NOV-21 02.15.44.587678 PM	20-NOV-21 08.30.00.000000 AM
CON008	Regular check up	1000	13-NOV-21 02.15.44.591353 PM	14-NOV-21 02.30.00.000000 PM
CON009	Physiotherapy session	500	13-NOV-21 02.15.44.595106 PM	23-NOV-21 02.30.00.000000 PM
CON010	Joint pain	700	13-NOV-21 02.15.44.598814 PM	22-NOV-21 01.30.00.000000 PM
CON011	Head ache-sinus	500	13-NOV-21 02.15.44.602484 PM	22-NOV-21 01.30.00.000000 PM
CON012	Food poisoning	800	13-NOV-21 02.15.44.606185 PM	30-NOV-21 08.30.00.000000 PM
CON013	Cold and cough	500	13-NOV-21 02.15.44.609877 PM	15-NOV-21 06.00.00.000000 PM
CON014	Spine problem	700	13-NOV-21 02.15.44.613789 PM	16-NOV-21 03.30.00.000000 PM
CON015	leg pain	500	13-NOV-21 02.15.44.617444 PM	20-NOV-21 02.30.00.000000 PM
CON016	stomach disorder	1500	13-NOV-21 02.15.44.621122 PM	19-NOV-21 07.30.00.000000 PM
CON017	check up	500	13-NOV-21 02.15.44.624838 PM	20-NOV-21 02.30.00.000000 PM

Download CSV

17 rows selected.

18) Consult_patient_id

```

394 drop table consult_patient_id;
395 create table consult_patient_id(consult_id varchar2(20) not null,
396                                patient_id varchar2(10) not null,
397                                constraint fk_consult foreign key(consult_id) references book_consult(consult_id),
398                                constraint fk_patient_consult foreign key(patient_id) references patient(patient_id),
399                                constraint pk_consult_patient primary key (consult_id));
400
401 insert into consult_patient_id values('CON001', 'PAT001');
402 insert into consult_patient_id values('CON002', 'PAT010');
403 insert into consult_patient_id values('CON003', 'PAT004');
404 insert into consult_patient_id values('CON004', 'PAT005');
405 insert into consult_patient_id values('CON005', 'PAT002');
406 insert into consult_patient_id values('CON006', 'PAT006');
407 insert into consult_patient_id values('CON007', 'PAT003');
408 insert into consult_patient_id values('CON008', 'PAT007');
409 insert into consult_patient_id values('CON009', 'PAT008');
410 insert into consult_patient_id values('CON010', 'PAT011');
411 insert into consult_patient_id values('CON011', 'PAT009');
412 insert into consult_patient_id values('CON012', 'PAT013');
413 insert into consult_patient_id values('CON013', 'PAT014');
414 insert into consult_patient_id values('CON014', 'PAT012');
415 insert into consult_patient_id values('CON015', 'PAT002');
416 insert into consult_patient_id values('CON016', 'PAT015');
417 insert into consult_patient_id values('CON017', 'PAT008');
418 select * from consult_patient_id;
419

```

CONSULT_ID	PATIENT_ID
CON001	PAT001
CON002	PAT010
CON003	PAT004
CON004	PAT005
CON005	PAT002
CON006	PAT006
CON007	PAT003
CON008	PAT007
CON009	PAT008
CON010	PAT011
CON011	PAT009
CON012	PAT013
CON013	PAT014
CON014	PAT012
CON015	PAT002
CON016	PAT015
CON017	PAT008

[Download CSV](#)

17 rows selected.

19) Labtest_list

```

421 drop table labtest_list;
422 create table labtest_list(test_id varchar2(10),
423                             test_name varchar2(20) not null unique,
424                             test_price integer not null,
425                             constraint pk_labtest primary key(test_id));
426
427 insert into labtest_list values('LAB001', 'CT Scan',1300);
428 insert into labtest_list values('LAB002', 'X-Ray',350);
429 insert into labtest_list values('LAB003', 'Hemoglobin test',120);
430 insert into labtest_list values('LAB004', 'Blood Sugar test',230);
431 insert into labtest_list values('LAB005', 'X-Ray-Lungs',850);
432 insert into labtest_list values('LAB006', 'MRI',2000);
433 insert into labtest_list values('LAB007', 'EEG',2750);
434 insert into labtest_list values('LAB008', 'Sonography',1750);
435 insert into labtest_list values('LAB009', 'Covid test',2430);
436 insert into labtest_list values('LAB010', 'Cancer test',1999);
437 select * from labtest_list;
438

```

TEST_ID	TEST_NAME	TEST_PRICE
LAB001	CT Scan	1300
LAB002	X-Ray	350
LAB003	Hemoglobin test	120
LAB004	Blood Sugar test	230
LAB005	X-Ray-Lungs	850
LAB006	MRI	2000
LAB007	EEG	2750
LAB008	Sonography	1750
LAB009	Covid test	2430
LAB010	Cancer test	1999

[Download CSV](#)

10 rows selected.

20) Medicine_list

```

439
440 drop table medicine_list;
441 create table medicine_list(medicine_id varchar2(10),
442                             medicine_name varchar2(20) not null,
443                             medicine_price integer not null,
444                             constraint pk_med_id primary key(medicine_id));
445
446 insert into medicine_list values('MED001', 'Crocini',3);
447 insert into medicine_list values('MED002', 'Ibuprofen',6);
448 insert into medicine_list values('MED003', 'Omeprazole',5);
449 insert into medicine_list values('MED004', 'Metformin',12);
450 insert into medicine_list values('MED005', 'Diclofenac',12);
451 insert into medicine_list values('MED006', 'Captopril',15);
452 insert into medicine_list values('MED007', 'Cephalexin',10);
453 insert into medicine_list values('MED008', 'Losartan',70);
454 insert into medicine_list values('MED009', 'Aspirin',3);
455 insert into medicine_list values('MED010', 'Paracetamol',4);
456 insert into medicine_list values('MED011', 'Atenolol',5);
457 insert into medicine_list values('MED012', 'Cefepime',10);
458 insert into medicine_list values('MED013', 'Dapsone',14);
459 insert into medicine_list values('MED014', 'kiclofenac',4);
460 insert into medicine_list values('MED015', 'Enalapril',8);
461 insert into medicine_list values('MED016', 'Famciclovir',9);
462 insert into medicine_list values('MED017', 'Hydralazine',10);
463 insert into medicine_list values('MED018', 'Ketoconazole',16);
464 select * from medicine_list;
465

```

MEDICINE_ID	MEDICINE_NAME	MEDICINE_PRICE
MED001	Crocini	3
MED002	Ibuprofen	6
MED003	Omeprazole	5
MED004	Metformin	12
MED005	Diclofenac	12
MED006	Captopril	15
MED007	Cephalexin	10
MED008	Losartan	70
MED009	Aspirin	3
MED010	Paracetamol	4
MED011	Atenolol	5
MED012	Cefepime	10
MED013	Dapsone	14
MED014	kiclofenac	4
MED015	Enalapril	8
MED016	Famciclovir	9
MED017	Hydralazine	10
MED018	Ketoconazole	16

[Download CSV](#)

18 rows selected.

21) Room

```

467 create table room(Room_no integer,vacancy varchar2(10) not null,constraint pk_room_no primary key(Room_no));
468 insert into room values(101, 'Yes');
469 insert into room values(102, 'No');
470 insert into room values(103, 'No');
471 insert into room values(104, 'Yes');
472 insert into room values(105, 'Yes');
473 insert into room values(106, 'No');
474 insert into room values(107, 'Yes');
475 insert into room values(108, 'Yes');
476 insert into room values(109, 'No');
477 insert into room values(110, 'No');
478 select * from room;

```

ROOM_NO	VACANCY
101	Yes
102	No
103	No
104	Yes
105	Yes
106	No
107	Yes
108	Yes
109	No
110	No

Download CSV

10 rows selected.

22) Room_book

```

481 drop table room_book;
482 create table room_book(booking_id varchar2(10),
483                        admit_date_time timestamp not null,
484                        discharge_date_time timestamp not null,
485                        room_bill integer not null,
486                        fees integer not null,
487                        Room_no integer not null,
488                        constraint fk_room foreign key(Room_no) references room(Room_no),
489                        constraint pk_roombook_id primary key(booking_id));
490
491 insert into room_book values('RBOOK001', to_timestamp('2021-11-07 15:32:00','YYYY-MM-DD HH24:MI:SS'), to_timestamp('2021-11-17 20:02:00','YYYY-MM-DD HH24:MI:SS'), 7000, 10500, 102);
492 insert into room_book values('RBOOK002', to_timestamp('2021-11-07 15:33:26','YYYY-MM-DD HH24:MI:SS'), to_timestamp('2021-11-16 20:03:48','YYYY-MM-DD HH24:MI:SS'), 7000, 1250, 103);
493 insert into room_book values('RBOOK003', to_timestamp('2021-11-07 15:33:26','YYYY-MM-DD HH24:MI:SS'), to_timestamp('2021-11-30 20:03:48','YYYY-MM-DD HH24:MI:SS'), 7000, 11000, 106);
494 insert into room_book values('RBOOK004', to_timestamp('2021-11-07 15:33:26','YYYY-MM-DD HH24:MI:SS'), to_timestamp('2021-12-15 20:03:48','YYYY-MM-DD HH24:MI:SS'), 7000, 12000, 109);
495 insert into room_book values('RBOOK005', to_timestamp('2021-11-07 15:33:26','YYYY-MM-DD HH24:MI:SS'), to_timestamp('2021-12-01 20:03:48','YYYY-MM-DD HH24:MI:SS'), 7000, 15000, 110);
496
497 select * from room_book;
498

```

BOOKING_ID	ADMIT_DATE_TIME	DISCHARGE_DATE_TIME	ROOM_BILL	FEES	ROOM_NO
RBOOK001	07-NOV-21 03.32.00.000000 PM	17-NOV-21 08.02.00.000000 PM	7000	10500	102
RBOOK002	07-NOV-21 03.33.26.000000 PM	16-NOV-21 08.03.48.000000 PM	7000	1250	103
RBOOK003	07-NOV-21 03.33.26.000000 PM	30-NOV-21 08.03.48.000000 PM	7000	11000	106
RBOOK004	07-NOV-21 03.33.26.000000 PM	15-DEC-21 08.03.48.000000 PM	7000	12000	109
RBOOK005	07-NOV-21 03.33.26.000000 PM	01-DEC-21 08.03.48.000000 PM	7000	15000	110

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5 rows selected.

23) Rbook_patient_id

```

278
279 drop table rbook_patient_id;
280 create table rbook_patient_id(booking_id varchar2(10),
281                               patient_id varchar2(10) not null,
282                               constraint fk_room_bookid2 foreign key(booking_id) references room_book(booking_id),
283                               constraint fk_room_patid1 foreign key(patient_id) references patient(patient_id),
284                               constraint pk_roombook1 primary key(booking_id));
285 insert into rbook_patient_id values('RBOOK001','PAT001');
286 insert into rbook_patient_id values('RBOOK002','PAT006');
287 insert into rbook_patient_id values('RBOOK003','PAT008');
288 insert into rbook_patient_id values('RBOOK004','PAT003');
289 insert into rbook_patient_id values('RBOOK005','PAT012');
290 select * from rbook_patient_id;
291

```

BOOKING_ID	PATIENT_ID
RBOOK001	PAT001
RBOOK002	PAT006
RBOOK003	PAT008
RBOOK004	PAT003
RBOOK005	PAT012

Download CSV

5 rows selected.

24) Patient_medicine

```

320 drop table patient_medicine;
321 create table patient_medicine(patient_id varchar2(10) not null,
322                               medicine_id varchar2(10) not null,
323                               med_quantity integer not null,
324                               bill_date timestamp not null,
325                               constraint fk_pat1 foreign key(patient_id) references patient(patient_id),
326                               constraint fk_med1 foreign key(medicine_id) references medicine_list(medicine_id));
327
328 insert into patient_medicine values('PAT001', 'MED011',20, to_timestamp('2021-09-12 17:00:00 ','YYYY-MM-DD HH24:MI:SS'));
329 insert into patient_medicine values('PAT001', 'MED012',10, to_timestamp('2021-09-12 17:00:00 ','YYYY-MM-DD HH24:MI:SS'));
330 insert into patient_medicine values('PAT001', 'MED004',25, to_timestamp('2021-09-24 10:40:00 ','YYYY-MM-DD HH24:MI:SS'));
331 insert into patient_medicine values('PAT001', 'MED002',15, to_timestamp('2021-09-24 10:40:00 ','YYYY-MM-DD HH24:MI:SS'));
332 insert into patient_medicine values('PAT002', 'MED009',5, to_timestamp('2021-03-07 17:00:00 ','YYYY-MM-DD HH24:MI:SS'));
333 insert into patient_medicine values('PAT003', 'MED012',22, to_timestamp('2021-05-20 17:00:00 ','YYYY-MM-DD HH24:MI:SS'));
334 insert into patient_medicine values('PAT003', 'MED018',10, to_timestamp('2021-05-20 17:00:00 ','YYYY-MM-DD HH24:MI:SS'));
335 insert into patient_medicine values('PAT005', 'MED001',11, to_timestamp('2021-11-12 15:00:00 ','YYYY-MM-DD HH24:MI:SS'));
336 insert into patient_medicine values('PAT005', 'MED003',6, to_timestamp('2021-11-12 15:00:00 ','YYYY-MM-DD HH24:MI:SS'));
337 insert into patient_medicine values('PAT005', 'MED013',18, to_timestamp('2021-11-12 15:00:00 ','YYYY-MM-DD HH24:MI:SS'));
338 insert into patient_medicine values('PAT005', 'MED012',20, to_timestamp('2021-11-12 19:00:00 ','YYYY-MM-DD HH24:MI:SS'));
339 insert into patient_medicine values('PAT011', 'MED017',23, to_timestamp('2021-10-12 12:00:00 ','YYYY-MM-DD HH24:MI:SS'));
340 insert into patient_medicine values('PAT011', 'MED002',30, to_timestamp('2021-10-12 12:00:00 ','YYYY-MM-DD HH24:MI:SS'));
341 insert into patient_medicine values('PAT013', 'MED017',22, to_timestamp('2021-11-12 14:50:00 ','YYYY-MM-DD HH24:MI:SS'));
342 insert into patient_medicine values('PAT014', 'MED006',20, to_timestamp('2021-11-12 14:55:00 ','YYYY-MM-DD HH24:MI:SS'));
343 insert into patient_medicine values('PAT015', 'MED006',19, to_timestamp('2021-12-14 10:00:00 ','YYYY-MM-DD HH24:MI:SS'));
344 insert into patient_medicine values('PAT012', 'MED013',18, to_timestamp('2021-12-14 10:00:00 ','YYYY-MM-DD HH24:MI:SS'));
345 select * from patient_medicine;

```

PATIENT_ID	MEDICINE_ID	MED_QUANTITY	BILL_DATE
PAT001	MED011	20	12-SEP-21 05.00.00.000000 PM
PAT001	MED012	10	12-SEP-21 05.00.00.000000 PM
PAT001	MED004	25	24-SEP-21 10.40.00.000000 AM
PAT001	MED002	15	24-SEP-21 10.40.00.000000 AM
PAT002	MED009	5	07-MAR-21 05.00.00.000000 PM
PAT003	MED012	22	20-MAY-21 05.00.00.000000 PM
PAT003	MED018	10	20-MAY-21 05.00.00.000000 PM
PAT005	MED001	11	12-NOV-21 03.00.00.000000 PM
PAT005	MED003	6	12-NOV-21 03.00.00.000000 PM
PAT005	MED013	18	12-NOV-21 03.00.00.000000 PM
PAT005	MED012	20	12-NOV-21 07.00.00.000000 PM
PAT011	MED017	23	12-OCT-21 12.00.00.000000 PM
PAT011	MED002	30	12-OCT-21 12.00.00.000000 PM
PAT013	MED017	22	12-NOV-21 02.50.00.000000 PM
PAT014	MED006	20	12-NOV-21 02.55.00.000000 PM
PAT015	MED006	19	14-DEC-21 10.00.00.000000 AM
PAT012	MED013	18	14-DEC-21 10.00.00.000000 AM

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17 rows selected.

25) Patient_labtest

```

348 drop table patient_labtest;
349 create table patient_labtest(patient_id varchar2(10) not null,
350                               test_id varchar2(10) not null,
351                               lbill_time timestamp not null,
352                               constraint fk_pat1 foreign key(patient_id) references patient(patient_id),
353                               constraint fk_test1 foreign key(test_id) references labtest_list(test_id));
354
355 insert into patient_labtest values('PAT001', 'LAB001', to_timestamp('2021-11-12 16:00:00', 'YYYY-MM-DD HH24:MI:SS'));
356 insert into patient_labtest values('PAT001', 'LAB002', to_timestamp('2021-11-12 16:57:00', 'YYYY-MM-DD HH24:MI:SS'));
357 insert into patient_labtest values('PAT003', 'LAB005', to_timestamp('2021-11-20 09:22:00', 'YYYY-MM-DD HH24:MI:SS'));
358 insert into patient_labtest values('PAT003', 'LAB008', to_timestamp('2021-11-20 10:01:00', 'YYYY-MM-DD HH24:MI:SS'));
359 insert into patient_labtest values('PAT004', 'LAB008', to_timestamp('2021-11-19 11:17:00', 'YYYY-MM-DD HH24:MI:SS'));
360 insert into patient_labtest values('PAT005', 'LAB002', to_timestamp('2021-11-10 18:50:00', 'YYYY-MM-DD HH24:MI:SS'));
361 insert into patient_labtest values('PAT005', 'LAB006', to_timestamp('2021-11-10 18:23:00', 'YYYY-MM-DD HH24:MI:SS'));
362 insert into patient_labtest values('PAT005', 'LAB001', to_timestamp('2021-11-10 19:04:00', 'YYYY-MM-DD HH24:MI:SS'));
363 insert into patient_labtest values('PAT006', 'LAB002', to_timestamp('2021-11-15 10:02:00', 'YYYY-MM-DD HH24:MI:SS'));
364 insert into patient_labtest values('PAT007', 'LAB003', to_timestamp('2021-11-14 15:13:00', 'YYYY-MM-DD HH24:MI:SS'));
365 insert into patient_labtest values('PAT009', 'LAB002', to_timestamp('2021-11-22 13:50:00', 'YYYY-MM-DD HH24:MI:SS'));
366 insert into patient_labtest values('PAT008', 'LAB004', to_timestamp('2021-11-23 15:05:00', 'YYYY-MM-DD HH24:MI:SS'));
367 select * from patient_labtest;

```

PATIENT_ID	TEST_ID	LBILL_TIME
PAT001	LAB001	12-NOV-21 04.00.00.000000 PM
PAT001	LAB002	12-NOV-21 04.57.00.000000 PM
PAT003	LAB005	20-NOV-21 09.22.00.000000 AM
PAT003	LAB008	20-NOV-21 10.01.00.000000 AM
PAT004	LAB008	19-NOV-21 11.17.00.000000 AM
PAT005	LAB002	10-NOV-21 06.50.00.000000 PM
PAT005	LAB006	10-NOV-21 06.23.00.000000 PM
PAT005	LAB001	10-NOV-21 07.04.00.000000 PM
PAT006	LAB002	15-NOV-21 10.02.00.000000 AM
PAT007	LAB003	14-NOV-21 03.13.00.000000 PM
PAT009	LAB002	22-NOV-21 01.50.00.000000 PM
PAT008	LAB004	23-NOV-21 03.05.00.000000 PM

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12 rows selected.

26) Phar_patient_id

```

388 drop table phar_patient_id;
389 create table phar_patient_id(patient_id varchar2(10) not null,
390                             phar_id varchar2(10) not null,
391                             bill_time timestamp not null,
392                             constraint fk3 foreign key(phar_id) references pharmacist(phar_id),
393                             constraint fk4 foreign key(patient_id) references patient(patient_id));
394 insert into phar_patient_id values('PAT001', 'PHAR001', to_timestamp('2021-09-12 17:00:00', 'YYYY-MM-DD HH24:MI:SS'));
395 insert into phar_patient_id values('PAT001', 'PHAR006', to_timestamp('2021-09-24 10:40:00', 'YYYY-MM-DD HH24:MI:SS'));
396 insert into phar_patient_id values('PAT002', 'PHAR001', to_timestamp('2021-03-07 17:00:00', 'YYYY-MM-DD HH24:MI:SS'));
397 insert into phar_patient_id values('PAT003', 'PHAR003', to_timestamp('2021-05-20 17:00:00', 'YYYY-MM-DD HH24:MI:SS'));
398 insert into phar_patient_id values('PAT005', 'PHAR002', to_timestamp('2021-11-12 15:00:00', 'YYYY-MM-DD HH24:MI:SS'));
399 insert into phar_patient_id values('PAT011', 'PHAR006', to_timestamp('2021-10-12 12:00:00', 'YYYY-MM-DD HH24:MI:SS'));
400 insert into phar_patient_id values('PAT013', 'PHAR004', to_timestamp('2021-11-12 14:50:00', 'YYYY-MM-DD HH24:MI:SS'));
401 insert into phar_patient_id values('PAT014', 'PHAR004', to_timestamp('2021-11-12 14:55:00', 'YYYY-MM-DD HH24:MI:SS'));
402 insert into phar_patient_id values('PAT015', 'PHAR002', to_timestamp('2021-12-14 10:00:00', 'YYYY-MM-DD HH24:MI:SS'));
403 insert into phar_patient_id values('PAT012', 'PHAR001', to_timestamp('2021-12-14 10:00:00', 'YYYY-MM-DD HH24:MI:SS'));
404 select * from phar_patient_id;
405

```

PATIENT_ID	PHAR_ID	BILL_TIME
PAT001	PHAR001	12-SEP-21 05.00.00.000000 PM
PAT001	PHAR006	24-SEP-21 10.40.00.000000 AM
PAT002	PHAR001	07-MAR-21 05.00.00.000000 PM
PAT003	PHAR003	20-MAY-21 05.00.00.000000 PM
PAT005	PHAR002	12-NOV-21 03.00.00.000000 PM
PAT011	PHAR006	12-OCT-21 12.00.00.000000 PM
PAT013	PHAR004	12-NOV-21 02.50.00.000000 PM
PAT014	PHAR004	12-NOV-21 02.55.00.000000 PM
PAT015	PHAR002	14-DEC-21 10.00.00.000000 AM
PAT012	PHAR001	14-DEC-21 10.00.00.000000 AM

[Download CSV](#)

10 rows selected.

27) Labtech_patient_id

```

428 drop table labtech_patient_id;
429 create table labtech_patient_id(patient_id varchar2(10) not null,
430                                labtech_id varchar2(10) not null,
431                                lab_time timestamp not null,
432                                constraint fk1 foreign key(labtech_id) references labtechnician(labtech_id),
433                                constraint fk2 foreign key(patient_id) references patient(patient_id));
434
435 insert into labtech_patient_id values('PAT001', 'LT008', to_timestamp('2021-11-12 16:00:00', 'YYYY-MM-DD HH24:MI:SS'));
436 insert into labtech_patient_id values('PAT001', 'LT007', to_timestamp('2021-11-12 16:57:00', 'YYYY-MM-DD HH24:MI:SS'));
437 insert into labtech_patient_id values('PAT003', 'LT007', to_timestamp('2021-11-20 09:22:00', 'YYYY-MM-DD HH24:MI:SS'));
438 insert into labtech_patient_id values('PAT003', 'LT010', to_timestamp('2021-11-20 10:01:00', 'YYYY-MM-DD HH24:MI:SS'));
439 insert into labtech_patient_id values('PAT004', 'LT005', to_timestamp('2021-11-19 11:17:00', 'YYYY-MM-DD HH24:MI:SS'));
440 insert into labtech_patient_id values('PAT005', 'LT007', to_timestamp('2021-11-10 18:50:00', 'YYYY-MM-DD HH24:MI:SS'));
441 insert into labtech_patient_id values('PAT005', 'LT003', to_timestamp('2021-11-10 18:23:00', 'YYYY-MM-DD HH24:MI:SS'));
442 insert into labtech_patient_id values('PAT005', 'LT004', to_timestamp('2021-11-10 19:04:00', 'YYYY-MM-DD HH24:MI:SS'));
443 insert into labtech_patient_id values('PAT006', 'LT007', to_timestamp('2021-11-15 10:02:00', 'YYYY-MM-DD HH24:MI:SS'));
444 insert into labtech_patient_id values('PAT007', 'LT002', to_timestamp('2021-11-14 15:13:00', 'YYYY-MM-DD HH24:MI:SS'));
445 insert into labtech_patient_id values('PAT009', 'LT009', to_timestamp('2021-11-22 13:50:00', 'YYYY-MM-DD HH24:MI:SS'));
446 insert into labtech_patient_id values('PAT008', 'LT006', to_timestamp('2021-11-23 15:05:00', 'YYYY-MM-DD HH24:MI:SS'));
447 select * from labtech_patient_id;
448

```

PATIENT_ID	LABTECH_ID	LAB_TIME
PAT001	LT008	12-NOV-21 04.00.00.000000 PM
PAT001	LT007	12-NOV-21 04.57.00.000000 PM
PAT003	LT007	20-NOV-21 09.22.00.000000 AM
PAT003	LT010	20-NOV-21 10.01.00.000000 AM
PAT004	LT005	19-NOV-21 11.17.00.000000 AM
PAT005	LT007	10-NOV-21 06.50.00.000000 PM
PAT005	LT003	10-NOV-21 06.23.00.000000 PM
PAT005	LT004	10-NOV-21 07.04.00.000000 PM
PAT006	LT007	15-NOV-21 10.02.00.000000 AM
PAT007	LT002	14-NOV-21 03.13.00.000000 PM
PAT009	LT009	22-NOV-21 01.50.00.000000 PM
PAT008	LT006	23-NOV-21 03.05.00.000000 PM

Download CSV

12 rows selected.

28) Doc_patient_id

```

1 create table doc_patient_id(patient_id varchar2(10) not null,
2                             doc_id varchar2(10) not null,
3                             constraint fk_doc foreign key(doc_id) references doctor(doc_id),
4                             constraint fk_pat foreign key(patient_id) references patient(patient_id));
5
6 insert into doc_patient_id values ('PAT001', 'DOC008');
7 insert into doc_patient_id values ('PAT002', 'DOC007');
8 insert into doc_patient_id values ('PAT003', 'DOC007');
9 insert into doc_patient_id values ('PAT003', 'DOC010');
10 insert into doc_patient_id values ('PAT004', 'DOC005');
11 insert into doc_patient_id values ('PAT005', 'DOC007');
12 insert into doc_patient_id values ('PAT006', 'DOC007');
13 insert into doc_patient_id values ('PAT006', 'DOC004');
14 insert into doc_patient_id values ('PAT007', 'DOC007');
15 insert into doc_patient_id values ('PAT008', 'DOC002');
16 insert into doc_patient_id values ('PAT009', 'DOC009');
17 insert into doc_patient_id values ('PAT010', 'DOC006');
18 insert into doc_patient_id values ('PAT011', 'DOC001');
19 insert into doc_patient_id values ('PAT012', 'DOC006');
20 insert into doc_patient_id values ('PAT013', 'DOC003');
21 insert into doc_patient_id values ('PAT014', 'DOC007');
22 insert into doc_patient_id values ('PAT015', 'DOC004');
23 select * from doc_patient_id;

```

PATIENT_ID	DOC_ID
PAT001	DOC008
PAT002	DOC007
PAT003	DOC007
PAT003	DOC010
PAT004	DOC005
PAT005	DOC007
PAT006	DOC007
PAT006	DOC004
PAT007	DOC007
PAT008	DOC002
PAT009	DOC009
PAT010	DOC006
PAT011	DOC001
PAT012	DOC006
PAT013	DOC003
PAT014	DOC007
PAT015	DOC004

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17 rows selected.

QUERIES:

I) SIMPLE QUERIES:

1) Display doctor id, name, consult fees where consult fees is less than or equal to 1000 for dentistry department

```
25  
26 select doc_id,doc_name,doc_consult_fees from doctor where doc_id in(select doc_id from doctor where doc_consult_fees <= 1000 and doc_department='Dentistry'); |
```

DOC_ID	DOC_NAME	DOC_CONSULT_FEES
DOC001	Daniel	1000
DOC006	Franklin	1000

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2 rows selected.

2) Display rooms which are vacant

```
27  
28 select Room_no from room where vacancy = 'Yes';|
```

ROOM_NO
101
104
105
107
108

[Download CSV](#)

5 rows selected

3) Display the consult id and queries of the patient who have the appointment on 18th November 2021

```
29  
30 select consult_id,queries from book_consult where appointment_date_time>to_timestamp('2021-11-18 00:00:00', 'YYYY-MM-DD HH24:MI:SS') and appointment_date_time<to_timestamp('2021-11-18 23:59:59', 'YYYY-MM-DD HH24:MI:SS');|
```

CONSULT_ID	QUERIES
CON003	Stomach ache at late nights.
CON005	Lower back ache.

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2 rows selected.

4) Display the medicines in ascending order

```
57  
58 select * from medicine_list order by medicine_name;  
59  
60
```

MEDICINE_ID	MEDICINE_NAME	MEDICINE_PRICE
MED009	Aspirin	3
MED011	Atenolol	5
MED006	Captopril	15
MED012	Cefepime	10
MED007	Cephalexin	10
MED001	Crocin	3
MED013	Dapsone	14
MED005	Diclofenac	12
MED015	Enalapril	8
MED016	Famciclovir	9
MED017	Hydralazine	10
MED002	Ibuprofen	6
MED018	Ketoconazole	16
MED008	Losartan	70
MED004	Metformin	12
MED003	Omeprazole	5
MED010	Paracetamol	4
MED014	kiclofenac	4

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18 rows selected.

5) Display the lab technician's details whose name starts with 'A' or 'S'

```
59  
60 select * from labtechnician where labtech_name like 'A%' or labtech_name like 'S%';  
61
```

LABTECH_ID	LABTECH_NAME	LABTECH_PASSWORD	LABTECH_GENDER	LABTECH_DOB	LABTECH_ADDRESS
LT001	Suriya	Suriya1977##	Male	10-NOV-93	123, periyar street, coimbatore -601839
LT005	Aditi	12Aditi.q	Female	31-JAN-95	208, white pine lane, virginia -374258.
LT007	Stefan	Stefan93258#	Male	22-AUG-02	221, Augusta country lane, Georgia-735865.

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3 rows selected.

II) AGGREGATE QUERIES:

1) Display the number of doctors in each department in the hospital database

```
62  
63 select doc_department, count(*) from doctor group by doc_department  
64
```

DOC_DEPARTMENT	COUNT(*)
Paediatrics	1
Cardiology	2
Dentistry	3
General medicine	1
Physiotherapy	1
Neurology	1
Gynecologist	1

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7 rows selected.

2) Display total number of rooms in hospital

```
65  
66 select count(*) as total_rooms from room;  
67
```

TOTAL_ROOMS
10

[Download CSV](#)

3) Display the minimum consult fees of doctors in each department

```
67  
68 select doc_department, min(doc_consult_fees) as MinFees from doctor group by doc_department;  
69
```

DOC_DEPARTMENT	MINFEES
Paediatrics	1000
Cardiology	1000
Dentistry	1000
General medicine	1300
Physiotherapy	1500
Neurology	1200
Gynecologist	1000

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7 rows selected.

4) Display the number of phone numbers available for each patient

```

69
70 select patient_id,count(*) as no_of_phone_numbers from patient_phone group by patient_id order by patient_id;
71

```

PATIENT_ID	NO_OF_PHONE_NUMBERS
PAT001	2
PAT002	1
PAT003	1
PAT004	2
PAT005	1
PAT006	2
PAT007	1
PAT008	1
PAT009	1
PAT010	1
PAT011	1
PAT012	1
PAT013	1
PAT014	1
PAT015	2

[Download CSV](#)

15 rows selected.

5) Display the sum of the lab tests taken by a particular patient

```

80
81 select sum(labtest_list.test_price) as total_lab_bill from patient_labtest join
82 labtest_list on patient_labtest.test_id=labtest_list.test_id where patient_labtest.patient_id='PAT005';
83

```

TOTAL_LAB_BILL

3650

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III) JOIN QUERIES:

1) Display the patients assigned to each doctor.

```
74  
75 select distinct doctor.doc_id,doctor.doc_name,patient.patient_id,patient.patient_name from doctor  
76 join doc_patient_id on doctor.doc_id=doc_patient_id.doc_id  
77 join patient on patient.patient_id=doc_patient_id.patient_id  
78 order by patient.patient_id;  
79
```

DOC_ID	DOC_NAME	PATIENT_ID	PATIENT_NAME
DOC008	Nick	PAT001	Steven
DOC007	Grams	PAT002	Regina
DOC007	Grams	PAT003	David
DOC010	Sandra	PAT003	David
DOC005	Kavya	PAT004	Halim
DOC007	Grams	PAT005	Lomal
DOC004	Bruce Banner	PAT006	Jerry
DOC007	Grams	PAT006	Jerry
DOC007	Grams	PAT007	Bonnie
DOC002	Jessy	PAT008	Maria
DOC009	Carrie	PAT009	Katherine
DOC006	Franklin	PAT010	Freya
DOC001	Daniel	PAT011	Hasera
DOC006	Franklin	PAT012	Quetsiyah
DOC003	Tony Stark	PAT013	Henry
DOC007	Grams	PAT014	Newton
DOC004	Bruce Banner	PAT015	Jensen

[Download CSV](#)

17 rows selected.

2) Display the details of in-patients (who booked rooms).

```

80 select room_book.room_no,patient.patient_id,patient.patient_name,patient.patient_gender,patient.patient_age from patient
81 right join rbook_patient_id on patient.patient_id=rbook_patient_id.patient_id
82 join room_book on room_book.booking_id = rbook_patient_id.booking_id;
83

```

ROOM_NO	PATIENT_ID	PATIENT_NAME	PATIENT_GENDER	PATIENT_AGE
102	PAT001	Steven	Male	34
109	PAT003	David	Male	33
103	PAT006	Jerry	Male	36
106	PAT008	Maria	Female	49
110	PAT012	Quetsiyah	Female	47

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5 rows selected.

3) Display the receptionist contact details.

```

130
131 select distinct receptionist.rec_id,receptionist.rec_name,rec_phone.rec_phone_no,rec_mail.rec_email, receptionist.rec_address from receptionist
132 join rec_phone on rec_phone.rec_id=receptionist.rec_id
133 inner join rec_mail on rec_phone.rec_id=rec_mail.rec_id
134 order by receptionist.rec_id;
135

```

REC_ID	REC_NAME	REC_PHONE_NO	REC_EMAIL	REC_ADDRESS
REC001	Yaseen	9367564289	yaseen37@yahoo.com	142, dumbo colony, persia-732485
REC002	Jim	9637565332	jimrec@gmail.com	438, Doctors drive, Torance-365762.
REC003	Chandler	7632782790	chandler@outlook.com	477, pinewood drive, alaska-726357.
REC003	Chandler	8652353273	chandler@outlook.com	477, pinewood drive, alaska-726357.
REC004	Dennis	6553576678	dennis1234@gmail.com	135, indiana avenue, Hawaii-387573.
REC005	Bruno	9645434676	brunosmi@gmail.com	266, cessna drive, Indiana-382757.

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6 rows selected.

4) Display the lab test taken by patients.

```
135  
136  
137 select patient_labtest.patient_id,patient.patient_name,labtest_list.test_id,labtest_list.test_name from patient_labtest  
138 left join labtest_list on patient_labtest.test_id=labtest_list.test_id  
139 join patient on patient.patient_id=patient_labtest.patient_id  
140 order by patient_labtest.patient_id;  
141  
142
```

PATIENT_ID	PATIENT_NAME	TEST_ID	TEST_NAME
PAT001	Steven	LAB001	CT Scan
PAT001	Steven	LAB002	X-Ray
PAT003	David	LAB005	X-Ray-Lungs
PAT003	David	LAB008	Sonography
PAT004	Halim	LAB008	Sonography
PAT005	Lomal	LAB001	CT Scan
PAT005	Lomal	LAB006	MRI
PAT005	Lomal	LAB002	X-Ray
PAT006	Jerry	LAB002	X-Ray
PAT007	Bonnie	LAB003	Hemoglobin test
PAT008	Maria	LAB004	Blood Sugar test
PAT009	Katherine	LAB002	X-Ray

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12 rows selected.

5) Display the medicines bought by each patient.

```
141  
142 select patient_id,medicine_name from patient_medicine natural join medicine_list order by patient_id;  
143
```

PATIENT_ID	MEDICINE_NAME
PAT001	Ibuprofen
PAT001	Cefepime
PAT001	Atenolol
PAT001	Metformin
PAT002	Aspirin
PAT003	Cefepime
PAT003	Ketoconazole
PAT005	Cefepime
PAT005	Omeprazole
PAT005	Dapsone
PAT005	Crocin
PAT011	Ibuprofen
PAT011	Hydralazine
PAT012	Dapsone
PAT013	Hydralazine
PAT014	Captopril
PAT015	Captopril

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17 rows selected.

IV) VIEW QUERIES:

1) Create a view for receptionist to check details of patient and appointment details.

```

170 create view receptionist_view as
171
172 select patient.patient_id,patient.patient_name,patient.patient_age,patient.patient_gender,book_consult.consult_id,
173 book_consult.queries,book_consult.appointment_date_time,doctor.doc_name,doctor.doc_department,doctor.doc_id,doctor.doc_consult_fees from patient
174
175 join doc_patient_id on patient.patient_id=doc_patient_id.patient_id
176
177 join doctor on doctor.doc_id=doc_patient_id.doc_id
178
179 join consult_patient_id on patient.patient_id=consult_patient_id.patient_id
180
181 join book_consult on book_consult.consult_id=consult_patient_id.consult_id
182
183 order by patient.patient_id;
184
185 select * from receptionist_view
186

```

PATIENT_ID	PATIENT_NAME	PATIENT_AGE	PATIENT_GENDER	CONSULT_ID	QUERIES	APPOINTMENT_DATE_TIME	DOC_NAME	DOC_DEPARTMENT	DOC_ID	DOC_CONSULT_FEES
PAT001	Steven	34	Male	CON001	tooth ache	12-NOV-21 05.00.00.000000 PM	Nick	Dentistry	DOC008	1500
PAT002	Regina	44	Female	CON015	leg pain	20-NOV-21 02.30.00.000000 PM	Grams	General medicine	DOC007	1300
PAT002	Regina	44	Female	CON005	Lower back ache.	18-NOV-21 11.30.00.000000 AM	Grams	General medicine	DOC007	1300
PAT003	David	33	Male	CON007	Regular checkup	20-NOV-21 08.30.00.000000 AM	Grams	General medicine	DOC007	1300
PAT003	David	33	Male	CON007	Regular checkup	20-NOV-21 08.30.00.000000 AM	Sandra	Cardiology	DOC010	1200
PAT004	Halim	14	Male	CON003	Stomach ache at late nights.	18-NOV-21 06.30.00.000000 PM	Kavya	Paediatrics	DOC005	1000
PAT005	Lomal	41	Male	CON004	Fever and cold	10-NOV-21 05.30.00.000000 PM	Grams	General medicine	DOC007	1300
PAT006	Jerry	36	Male	CON006	neck pain	15-NOV-21 09.30.00.000000 AM	Grams	General medicine	DOC007	1300
PAT006	Jerry	36	Male	CON006	neck pain	15-NOV-21 09.30.00.000000 AM	Bruce Banner	Physiotherapy	DOC004	1500
PAT007	Bonnie	39	Female	CON008	Regular check up	14-NOV-21 02.30.00.000000 PM	Grams	General medicine	DOC007	1300
PAT008	Maria	49	Female	CON009	Physiotherapy session	23-NOV-21 02.30.00.000000 PM	Jessy	Neurology	DOC002	1200
PAT008	Maria	49	Female	CON017	check up	20-NOV-21 02.30.00.000000 PM	Jessy	Neurology	DOC002	1200
PAT009	Katherine	51	Female	CON011	Head ache-sinus	22-NOV-21 01.30.00.000000 PM	Carrie	Gynecologist	DOC009	1000
PAT010	Freya	34	Female	CON002	Left shoulder pain, chest pain	19-NOV-21 05.00.00.000000 PM	Franklin	Dentistry	DOC006	1000
PAT011	Hasera	32	Female	CON010	Joint pain	22-NOV-21 01.30.00.000000 PM	Daniel	Dentistry	DOC001	1000
PAT012	Quetsiyah	47	Female	CON014	Spine problem	16-NOV-21 03.30.00.000000 PM	Franklin	Dentistry	DOC006	1000
PAT013	Henry	50	Male	CON012	Food poisoning	30-NOV-21 08.30.00.000000 PM	Tony Stark	Cardiology	DOC003	1000
PAT014	Newton	33	Male	CON013	Cold and cough	15-NOV-21 06.00.00.000000 PM	Grams	General medicine	DOC007	1300
PAT015	Jensen	41	Male	CON016	stomach disorder	19-NOV-21 07.30.00.000000 PM	Bruce Banner	Physiotherapy	DOC004	1500

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19 rows selected.

2) Create a view for lab technician to view the patient lab test details.

```
create or replace view labtechnician_view as

select distinct patient.patient_id,patient.patient_name,patient.patient_gender,patient.patient_age,labtechnician.labtech_id,
labtechnician.labtech_name,labtest_list.test_id,labtest_list.test_name,labtest_list.test_price from patient

join labtech_patient_id on patient.patient_id=labtech_patient_id.patient_id

join labtechnician on labtechnician.labtech_id=labtech_patient_id.labtech_id

join patient_labtest on patient_labtest.patient_id=patient.patient_id

join labtest_list on labtest_list.test_id=patient_labtest.test_id order by patient.patient_id;

select * from labtechnician_view;
```

PATIENT_ID	PATIENT_NAME	PATIENT_GENDER	PATIENT_AGE	LABTECH_ID	LABTECH_NAME	TEST_ID	TEST_NAME	TEST_PRICE
PAT001	Steven	Male	34	LT007	Stefan	LAB001	CT Scan	1300
PAT001	Steven	Male	34	LT007	Stefan	LAB002	X-Ray	350
PAT001	Steven	Male	34	LT008	Damon	LAB001	CT Scan	1300
PAT001	Steven	Male	34	LT008	Damon	LAB002	X-Ray	350
PAT003	David	Male	33	LT007	Stefan	LAB005	X-Ray-Lungs	850
PAT003	David	Male	33	LT007	Stefan	LAB008	Sonography	1750
PAT003	David	Male	33	LT010	Viola	LAB005	X-Ray-Lungs	850
PAT003	David	Male	33	LT010	Viola	LAB008	Sonography	1750
PAT004	Halim	Male	14	LT005	Aditi	LAB008	Sonography	1750
PAT005	Lomal	Male	41	LT003	Tom	LAB001	CT Scan	1300
PAT005	Lomal	Male	41	LT003	Tom	LAB002	X-Ray	350
PAT005	Lomal	Male	41	LT003	Tom	LAB006	MRI	2000
PAT005	Lomal	Male	41	LT004	Elena	LAB001	CT Scan	1300
PAT005	Lomal	Male	41	LT004	Elena	LAB002	X-Ray	350
PAT005	Lomal	Male	41	LT004	Elena	LAB006	MRI	2000
PAT005	Lomal	Male	41	LT007	Stefan	LAB001	CT Scan	1300
PAT005	Lomal	Male	41	LT007	Stefan	LAB002	X-Ray	350
PAT005	Lomal	Male	41	LT007	Stefan	LAB006	MRI	2000
PAT006	Jerry	Male	36	LT007	Stefan	LAB002	X-Ray	350
PAT007	Bonnie	Female	39	LT002	Ram	LAB003	Hemoglobin test	120
PAT008	Maria	Female	49	LT006	Caroline	LAB004	Blood Sugar test	230
PAT009	Katherine	Female	51	LT009	Jeremy	LAB002	X-Ray	350

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22 rows selected.

3) Create a pharmacist view to view the patient prescription details.

```

207
208 create or replace view pharmacist_view as
209
210 select distinct patient.patient_id,patient.patient_name,patient.patient_gender,patient.patient_age,
211 pharmacist.phar_id,pharmacist.phar_name,medicine_list.medicine_id,medicine_list.medicine_name,patient_medicine.med_quantity,
212 medicine_list.medicine_price,medicine_list.medicine_price*patient_medicine.med_quantity as total from patient
213
214 join phar_patient_id on patient.patient_id=phar_patient_id.patient_id
215
216 join pharmacist on pharmacist.phar_id=phar_patient_id.phar_id
217
218 join patient_medicine on patient_medicine.patient_id=patient.patient_id and patient_medicine.bill_date=phar_patient_id.bill_time
219
220 join medicine_list on medicine_list.medicine_id=patient_medicine.medicine_id order by patient.patient_id;
221
222 select * from pharmacist_view;
223

```

PATIENT_ID	PATIENT_NAME	PATIENT_GENDER	PATIENT_AGE	PHAR_ID	PHAR_NAME	MEDICINE_ID	MEDICINE_NAME	MED_QUANTITY	MEDICINE_PRICE	TOTAL
PAT001	Steven	Male	34	PHAR001	Ken	MED011	Atenolol	20	5	100
PAT001	Steven	Male	34	PHAR001	Ken	MED012	Cefepime	10	10	100
PAT001	Steven	Male	34	PHAR006	Gwen	MED002	Ibuprofen	15	6	90
PAT001	Steven	Male	34	PHAR006	Gwen	MED004	Metformin	25	12	300
PAT002	Regina	Female	44	PHAR001	Ken	MED009	Aspirin	5	3	15
PAT003	David	Male	33	PHAR003	Jian	MED012	Cefepime	22	10	220
PAT003	David	Male	33	PHAR003	Jian	MED018	Ketoconazole	10	16	160
PAT005	Lomal	Male	41	PHAR002	Silas	MED001	Crocin	11	3	33
PAT005	Lomal	Male	41	PHAR002	Silas	MED003	Omeprazole	6	5	30
PAT005	Lomal	Male	41	PHAR002	Silas	MED013	Dapsone	18	14	252
PAT011	Hasera	Female	32	PHAR006	Gwen	MED002	Ibuprofen	30	6	180
PAT011	Hasera	Female	32	PHAR006	Gwen	MED017	Hydralazine	23	10	230
PAT012	Quetsiyah	Female	47	PHAR001	Ken	MED013	Dapsone	18	14	252
PAT013	Henry	Male	50	PHAR004	Denver	MED017	Hydralazine	22	10	220
PAT014	Newton	Male	33	PHAR004	Denver	MED006	Captopril	20	15	300
PAT015	Jensen	Male	41	PHAR002	Silas	MED006	Captopril	19	15	285

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16 rows selected.

4) Create a view for admin to calculate the doctor's salary.

```

225
226 create or replace view admin_view_doc_salary as
227
228 select doc_id,doc_name,doc_department,(doc_consult_fees+5000)*30 as salary from doctor;
229
230
231
232 select * from admin_view_doc_salary;
233
234

```

DOC_ID	DOC_NAME	DOC_DEPARTMENT	SALARY
DOC001	Daniel	Dentistry	180000
DOC002	Jessy	Neurology	186000
DOC003	Tony Stark	Cardiology	180000
DOC004	Bruce Banner	Physiotherapy	195000
DOC005	Kavya	Paediatrics	180000
DOC006	Franklin	Dentistry	180000
DOC007	Grams	General medicine	189000
DOC008	Nick	Dentistry	195000
DOC009	Carrie	Gynecologist	180000
DOC010	Sandra	Cardiology	186000

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10 rows selected.

5) Create a view for doctor with id 'DOC007' to view the appointment details for him/her.

```

236 create view doc_view as
237
238 select book_consult.consult_id,patient.patient_id,patient.patient_name,patient.patient_age,patient.patient_gender,book_consult.queries,book_consult.appointment_date_time from patient
239
240 join consult_patient_id on consult_patient_id.patient_id=patient.patient_id
241
242 join book_consult on book_consult.consult_id=consult_patient_id.consult_id
243
244 join doc_patient_id on doc_patient_id.patient_id=patient.patient_id
245
246 join doctor on doctor.doc_id=doc_patient_id.doc_id where doctor.doc_id='DOC007' order by book_consult.consult_id;
247
248
249
250
251 select * from doc_view;
252

```

CONSULT_ID	PATIENT_ID	PATIENT_NAME	PATIENT_AGE	PATIENT_GENDER	QUERIES	APPOINTMENT_DATE_TIME
CON004	PAT005	Lomal	41	Male	Fever and cold	10-NOV-21 05.30.00.000000 PM
CON005	PAT002	Regina	44	Female	Lower back ache.	18-NOV-21 11.30.00.000000 AM
CON006	PAT006	Jerry	36	Male	neck pain	15-NOV-21 09.30.00.000000 AM
CON007	PAT003	David	33	Male	Regular checkup	20-NOV-21 08.30.00.000000 AM
CON008	PAT007	Bonnie	39	Female	Regular check up	14-NOV-21 02.30.00.000000 PM
CON013	PAT014	Newton	33	Male	Cold and cough	15-NOV-21 06.00.00.000000 PM
CON015	PAT002	Regina	44	Female	leg pain	20-NOV-21 02.30.00.000000 PM

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7 rows selected.

V) INDEX QUERIES:

1) Unique index to identify patient details.

```
48 CREATE UNIQUE INDEX patindex ON patient(patient_name,patient_address);
49 SELECT OWNER, INDEX_NAME, INDEX_TYPE, UNIQUENESS, TABLE_NAME, VISIBILITY, CONSTRAINT_INDEX FROM ALL_INDEXES WHERE TABLE_NAME='PATIENT';
```

OWNER	INDEX_NAME	INDEX_TYPE	UNIQUENESS	TABLE_NAME	VISIBILITY	CONSTRAINT_INDEX
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	PK_PATIENT	NORMAL	UNIQUE	PATIENT	VISIBLE	YES
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	PATINDEX	NORMAL	UNIQUE	PATIENT	VISIBLE	NO

Download CSV
2 rows selected.

2) Unique index to identify the medicine name.

```
74 CREATE UNIQUE INDEX Med_index ON medicine_list(medicine_name);
75 SELECT OWNER, INDEX_NAME, INDEX_TYPE, AUTO, UNIQUENESS, TABLE_NAME, VISIBILITY, CONSTRAINT_INDEX FROM ALL_INDEXES WHERE TABLE_NAME='MEDICINE_LIST';
```

OWNER	INDEX_NAME	INDEX_TYPE	AUTO	UNIQUENESS	TABLE_NAME	VISIBILITY	CONSTRAINT_INDEX
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	PK_MED_ID	NORMAL	NO	UNIQUE	MEDICINE_LIST	VISIBLE	YES
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	MED_INDEX	NORMAL	NO	UNIQUE	MEDICINE_LIST	VISIBLE	NO

3) Index to identify the room numbers.

```
107 CREATE INDEX room_no ON room_book(Room_no);
108 SELECT OWNER, INDEX_NAME, INDEX_TYPE, AUTO, UNIQUENESS, TABLE_NAME, VISIBILITY, CONSTRAINT_INDEX FROM ALL_INDEXES WHERE TABLE_NAME='ROOM_BOOK';
```

OWNER	INDEX_NAME	INDEX_TYPE	AUTO	UNIQUENESS	TABLE_NAME	VISIBILITY	CONSTRAINT_INDEX
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	PK_ROOMBOOK_ID	NORMAL	NO	UNIQUE	ROOM_BOOK	VISIBLE	YES
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	ROOM_NO	NORMAL	NO	NONUNIQUE	ROOM_BOOK	VISIBLE	NO

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2 rows selected.

4) Unique index to identify the patient phone numbers.

```
143 CREATE UNIQUE INDEX phar_phone_index ON phar_phone(phar_phone_no);
144 SELECT OWNER, INDEX_NAME, INDEX_TYPE, AUTO, UNIQUENESS, TABLE_NAME, VISIBILITY, CONSTRAINT_INDEX FROM ALL_INDEXES WHERE TABLE_NAME='PHAR_PHONE';
```

Index created.

OWNER	INDEX_NAME	INDEX_TYPE	AUTO	UNIQUENESS	TABLE_NAME	VISIBILITY	CONSTRAINT_INDEX
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	PHAR_PHONE_INDEX	NORMAL	NO	UNIQUE	PHAR_PHONE	VISIBLE	NO

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5) Index to identify the bill details.

```
172 CREATE INDEX bill_index ON patient_medicine(bill_date);
173 SELECT OWNER, INDEX_NAME, INDEX_TYPE, AUTO, UNIQUENESS, TABLE_NAME, VISIBILITY, CONSTRAINT_INDEX FROM ALL_INDEXES WHERE TABLE_NAME='PATIENT_MEDICINE';
```

OWNER	INDEX_NAME	INDEX_TYPE	AUTO	UNIQUENESS	TABLE_NAME	VISIBILITY	CONSTRAINT_INDEX
SQL_UHOYQDTJEZIZDGYQPWAFDDGB	BILL_INDEX	NORMAL	NO	NONUNIQUE	PATIENT_MEDICINE	VISIBLE	NO

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