R.V. COLLEGE OF ENGINEERING
OBSERVATION / DATA SHEET

Date _____ Name _Durgesh Kumar_____

Dept./Lab _____ Class _____ Expt./No._____
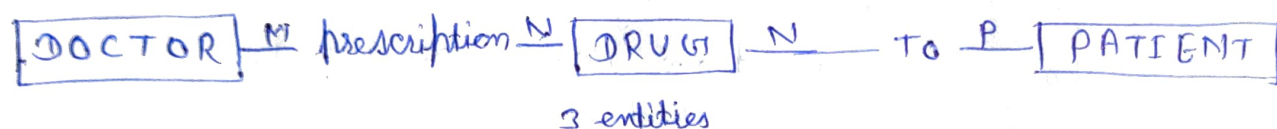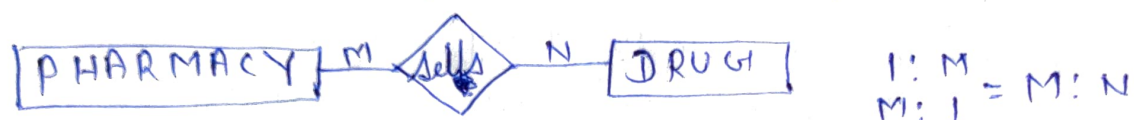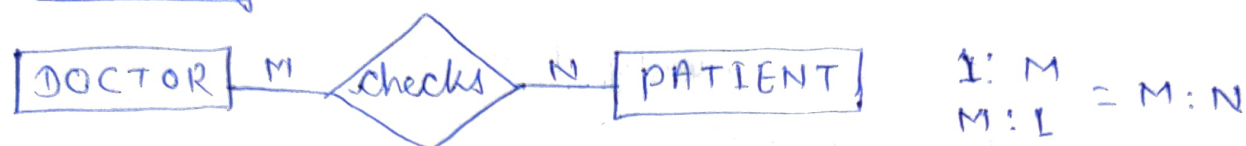
Title _____

✗ Health care:

Patients are identified by an SSN and their names, address and ages must be recorded. Doctors are identified by an SSN. For each doctor, the name specialty and years of experience must be recorded. Each pharmaceutical company is identified by name; it has an address and one phone number. For each drug the trade name and formula must be recorded. Each drug is sold by a given pharmaceutial company. and the trade name identifies a drug uniquely from among the products of that company. Each pharmacy has a name, address and phone number. Each patient is checked up by some doctor. Every doctor has at least one patient. Each pharmacy sells several drugs and has a price for each. A drug could be could be sold at several pharmacies and the price could vary from one pharma to another. Doctors prescribe drugs for patients. A doctor could prescribe one or more drugs for several patients and a patient could obtain prescription from several doctors. Each prescription has a date and quantity associated with it. Pharmaceutial companies have long-term contracts with pharmacies. A pharamaceutial company can contract with several pharmacies for each contract with several pharmaceutial companies. For each contract you have to store a start date an end date. supervisor and the text of the contract.

<div align="right">

Signature of
Teacher incharge

</div>

entities and and associated attribute :

① PATIENT :- SSN, Name, Address, Age
② DOCTOR:-SSN, Name, Address speciality, YOE
③ PHARMA-COMPANY:- Name, Address, phone-no
④ DRUG :- Trade-Name, formula
⑤ PHARMACY:- Name, address, phone-no

* Relationship types and contraints
cordinality :-

DOCTOR — M — checks — N — PATIENT
$$1:M \atop M:1 = M:N$$

PHARMACY — M — sells — N — DRUG
$$1:M \atop M:1 = M:N$$

DOCTOR — M — prescription — N — DRUG — N — to — P — PATIENT

3 entities

PHARMA COMPANY — M — contract — N — PHARMACY
$$1:M \atop M:N$$

PHARMA COMPANY — 1 — manufacture — M — DRUG
$$1:M \atop M:1 = 1:M$$

* participation

① DOCTOR checks PATIENT
② PHARMACY sells DRUG
③ DOCTOR prescriptions DRUG to PATIENT
④ PHARMACOMPANY contract PHARMACY
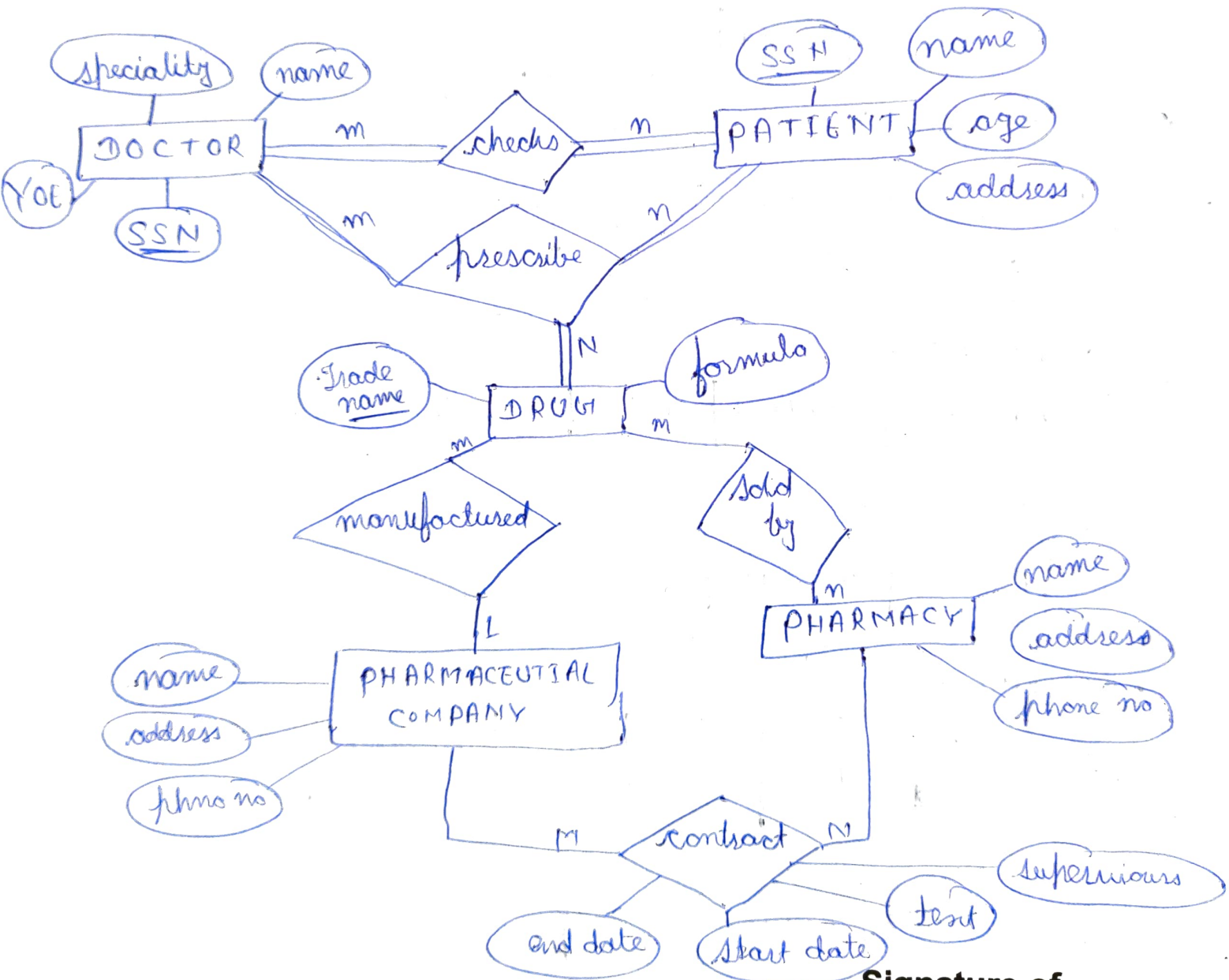⑤ PHARMA-COMPANY manufacture DRUG

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X ER. DIAGRAM

Create Database:-

mysql>create database health;
mysql>use health;

Create tables:-

mysql>create table doctor(d_ssn varchar(10) primary key,name varchar(20) not null,speciality varchar(20),experience varchar(10));
Query OK, 0 rows affected (0.33 sec)

mysql> desc doctor;

```
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| ssn        | varchar(10) | NO   | PRI | NULL    |       |
| name       | varchar(20) | NO   |     | NULL    |       |
| speciality | varchar(20) | YES  |     | NULL    |       |
| experience | varchar(10) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
```

mysql>create table patient(p_ssn varchar(20) primary key ,name varchar(20) not null,address varchar(30),age int);
Query OK, 0 rows affected (0.22 sec)

mysql>create table pharama_company(pc_name varchar(20) primary key,address varchar(20),phone_no bigint(10));

mysql> create table drug(trade_name varchar(20) primary key,formula varchar(20),pc_name varchar(10),foreign key(pc_name) references pharama_company(pc_name));

mysql>create table pharmacy(p_name varchar(20) primary key,address varchar(20),ph_no bigint(10));

mysql> create table checks(d_ssn varchar(10),p_ssn varchar(10),foreign key(d_ssn) references doctor(d_ssn),foreign key(p_ssn) references patient(p_ssn),primary key(d_ssn,p_ssn));

mysql>create table prescribe(d_ssn varchar(10),p_ssn varchar(10),trade_name varchar(20),prescribe_date date,quantity int(5),foreign key(d_ssn) references doctor(d_ssn),foreign key(p_ssn) references patient(p_ssn),foreign key(trade_name) references drug(trade_name),primary key(d_ssn,p_ssn,trade_name));

mysql> create table sold_by(trade_name varchar(20),p_name varchar(20),price int(8),foreign key(trade_name) references drug(trade_name),foreign key(p_name) references pharmacy(p_name),primary key(trade_name,p_name));

mysql> create table contract(pc_name varchar(20),p_name varchar(20),s_date date,end_date date,text varchar(30),supervisor varchar(20),foreign key(pc_name) references pharama_company(pc_name),foreign key(p_name) references pharmacy(p_name),primary key(pc_name,p_name));

Insert Value:-

Patient:-
sql> insert into patient values("P001","Gaurav","BGP",20);
Query OK, 1 row affected (0.009 sec)

sql> insert into patient
values("P002","Sonu","Patna",65),("P003","Divesh","UP",80),("P004","Ram","Delhi",40),("P005","Ravi","Mumbai",35);
Query OK, 4 rows affected (0.011 sec)
Records: 4 Duplicates: 0 Warnings: 0

PHARAMA COMPANY:-

```
sql> insert into pharama_company
values("nandi","Delhi",7867656568),("cipla","Mumbai",9967656568),("zinc","Goa",7879876545),("lupin","Up",9643434242
2),("mankind","chennai",7876845354);
Query OK, 5 rows affected (0.009 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
sql> insert into pharama_company
values("apollo","chennai",9844050879),("biocon","andhra",9877654678),("medplus","karnataka",8073805341);
Query OK, 3 rows affected (0.009 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

Drug:-
```
sql> insert into drug values("Nice","CH2M1","Nandi");
Query OK, 1 row affected (0.009 sec)
```

```
sql> insert into drug
values("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","nandi");
Query OK, 4 rows affected (0.009 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

DOCTOR:-
```
sql> insert into doctor values("D001","Durgesh","Cardilogists","5+");
Query OK, 1 row affected (0.010 sec)
```

```
sql> insert into doctor
values("D002","Prince","Physicians","3+"),("D003","Aman","gastroenterologists","8+"),("D004","Amit","Nerologists","7+");
Query OK, 3 rows affected (0.009 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

PHARMACY:-
```
sql> insert into pharmacy
values("walgreens","bangalore",9823412345),("omnicare","tumkur",7890654678),("riteaid","shivmogga",8076812345),("h
ealthmart","tiptur",8550885540),("bartell","chennai",8097065432);
```

CHECKS:-
```
sql> insert into checks values("D001","P001"),("D002","P002"),("D003","P003"),("D004","P004");
```

CONTRACT:-
```
sql> insert into contract values("biocon","healthmart",'1999/10/4','2021/6/7',"uuu","anup");
Query OK, 1 row affected (0.009 sec)
```

```
sql> insert into contract values("cipla","omnicare",'1999/9/20','2023/6/1',"hhh","sagar");
Query OK, 1 row affected (0.009 sec)
```

```
sql> insert into contract values("lupin","riteaid",'1997/11/11','2029/4/29',"vvv","kumar");
Query OK, 1 row affected (0.009 sec)
```

```
sql> insert into contract values("medplus","walgreens",'1982/9/7','2025/11/20',"nnn","nirup");
Query OK, 1 row affected (0.009 sec)
```

PRESCRIBE:-
```
sql> insert into prescribe values("D001","P001","Nice",'2021/5/29',3);
Query OK, 1 row affected (0.008 sec)
```

sql>insert into prescribe
values("D002","P002","Paracetomol",'2021/9/20',10),("D003","P003","sinarest",'2021/4/8',30),("D004","P004","sumo",'20 20/9/20',40),("D005","P005","zincovit",'2020/10/4',50);
Query OK, 4 rows affected (0.010 sec)
Records: 4 Duplicates: 0 Warnings: 0

SOLD_BY:-
sql> insert into sold_by values("Nice","bartell",30000);
Query OK, 1 row affected (0.011 sec)

sql> insert into sold_by
values("Paracetomol","healthmart",20000),("sinarest","omnicare",12000),("sumo","riteaid",9000),("zincovit","walgreens", 45000);
Query OK, 4 rows affected (0.009 sec)
Records: 4 Duplicates: 0 Warnings: 0

Question and Answer:-

1.List the details of patients who are 40 year old and have been checkes by Nerologists speecialist.
sql> select p.* from patient p ,doctor d,checks c where p.p_ssn=c.p_ssn and d.d_ssn=c.d_ssn and p.age=40 and d.speciality="Nerologists";

2.List the details of doctors who have given the prescription to more then 2 patients in year 2013.
sql> select D.*,count(P.D_ssn) from Doctor D,Prescribe P where D.D_ssn=P.D_ssn and
year(P.prescribe_date)="2013" group by P.D_ssn having count(P.D_ssn)>=2;

3. 3.Retrieve the details of doctor having maximimum experience.
sql> select *from doctor where experience in (select max(experience)from doctor);

4.List the details of pharmaceutical companies who supply drug to more then 10 pharmacies in the same city where company is located.
sql>select distinct d.* from drug d,pharmacy p,sold_by s where p.p_name=s.p_name and s.trade_name=d.trade_name;

5.List the details of drug supplied by only one pharmaceutical company.
MariaDB [health]> select d.*,count(pc_name) from drug d group by pc_name having count(pc_name);

6.List the details of drug supplied.
sql> select p.*,d.trade_name from pharmacy p,sold_by s,drug d where s.p_name=p.p_name and d.trade_name=s.trade_name;

Question and Answer Screenshot:-


```
XAMPP for Windows - mysql  -u root                                                      _  □  X

MariaDB [(none)]> use health;
Database changed
MariaDB [health]> select p.* from patient p ,doctor d,checks c where p.p_ssn=c.p_ssn and d.d_ssn=c.d_ssn and p.age=40 and d.speciality="Nerologists";
+-------+------+---------+------+
| p_ssn | name | address | age  |
+-------+------+---------+------+
| P004  | Ram  | Delhi   |   40 |
+-------+------+---------+------+
1 row in set (0.055 sec)

MariaDB [health]> select D.*,count(P.D_ssn) from Doctor D,Prescribe P where D.D_ssn=P.D_ssn and year(P.prescribe_date)="2013" group by P.D_ssn having count(P.D_ssn)>=2;
+-------+------+-----------+------------+----------------+
| d_ssn | name | speciality | experience | count(P.D_ssn) |
+-------+------+-----------+------------+----------------+
| d100  | rahul | eye      | 21         |              2 |
+-------+------+-----------+------------+----------------+
1 row in set (0.024 sec)

MariaDB [health]> select *from doctor where  experience in (select max(experience)from doctor);
+-------+------+-------------------+------------+
| d_ssn | name | speciality        | experience |
+-------+------+-------------------+------------+
| D003  | Aman | gastroenterologists | 8+       |
+-------+------+-------------------+------------+
1 row in set (0.011 sec)

MariaDB [health]> select distinct d.* from drug d,pharmacy p,sold_by s where p.p_name=s.p_name and s.trade_name=d.trade_name;
+------------+----------+---------+
| trade_name | formula  | pc_name |
+------------+----------+---------+
| Nice       | CH2M1    | Nandi   |
| Paracetomol | CH3     | cipla   |
| sinarest   | N12MG15  | nandi   |
| sumo       | N12MG2   | cipla   |
| zincovit   | xyz      | zinc    |
+------------+----------+---------+
5 rows in set (0.003 sec)

MariaDB [health]> select d.*,count(pc_name) from drug d group by pc_name having count(pc_name);
+------------+----------+---------+----------------+
| trade_name | formula  | pc_name | count(pc_name) |
+------------+----------+---------+----------------+
| Paracetomol | CH3     | cipla   |              2 |
```



```
Select XAMPP for Windows - mysql  -u root                                               _  □  X

MariaDB [health]> select d.*,count(pc_name) from drug d group by pc_name having count(pc_name);
+------------+----------+---------+----------------+
| trade_name | formula  | pc_name | count(pc_name) |
+------------+----------+---------+----------------+
| Paracetomol | CH3     | cipla   |              2 |
| Nice       | CH2M1    | Nandi   |              2 |
| zincovit   | xyz      | zinc    |              1 |
+------------+----------+---------+----------------+
3 rows in set (0.007 sec)

MariaDB [health]> select p.*,d.trade_name from pharmacy p,sold_by s,drug d where s.p_name=p.p_name and d.trade_name=s.trade_name;
+------------+-----------+------------+-------------+
| p_name     | address   | ph_no      | trade_name  |
+------------+-----------+------------+-------------+
| bartell    | chennai   | 8097065432 | Nice        |
| healthmart | tiptur    | 8550885540 | Paracetomol |
| omnicare   | tumkur    | 7890654678 | sinarest    |
| riteaid    | shivmogga | 8076812345 | sumo        |
| walgreens  | bangalore | 9823412345 | zincovit    |
+------------+-----------+------------+-------------+
5 rows in set (0.003 sec)

MariaDB [health]> _
```

Screenshot:-


```
MariaDB [(none)]> use health;
Database changed
MariaDB [health]> desc doctor;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| d_ssn      | varchar(10) | NO   | PRI | NULL    |       |
| name       | varchar(20) | NO   |     | NULL    |       |
| speciality | varchar(20) | YES  |     | NULL    |       |
| experience | varchar(10) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.045 sec)

MariaDB [health]> desc patient;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| p_ssn   | varchar(20) | NO   | PRI | NULL    |       |
| name    | varchar(20) | NO   |     | NULL    |       |
| address | varchar(30) | YES  |     | NULL    |       |
| age     | int(11)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.045 sec)

MariaDB [health]>  desc drug;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| trade_name | varchar(20) | NO   | PRI | NULL    |       |
| formula    | varchar(20) | YES  |     | NULL    |       |
| pc_name    | varchar(10) | YES  | MUL | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.036 sec)

MariaDB [health]> desc checks;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| d_ssn | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn | varchar(10) | NO   | PRI | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.047 sec)
```



```
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| d_ssn | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn | varchar(10) | NO   | PRI | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.047 sec)

MariaDB [health]> desc prescribe;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| d_ssn         | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn         | varchar(10) | NO   | PRI | NULL    |       |
| trade_name    | varchar(20) | NO   | PRI | NULL    |       |
| prescribe_date| date        | YES  |     | NULL    |       |
| quantity      | int(5)      | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
5 rows in set (0.048 sec)

MariaDB [health]> desc sold_by;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| trade_name | varchar(20) | NO   | PRI | NULL    |       |
| p_name     | varchar(20) | NO   | PRI | NULL    |       |
| price      | int(8)      | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.049 sec)

MariaDB [health]> desc contract;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| pc_name    | varchar(20) | NO   | PRI | NULL    |       |
| p_name     | varchar(20) | NO   | PRI | NULL    |       |
| s_date     | date        | YES  |     | NULL    |       |
| end_date   | date        | YES  |     | NULL    |       |
| text       | varchar(30) | YES  |     | NULL    |       |
| supervisor | varchar(20) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
6 rows in set (0.042 sec)

MariaDB [health]>
```

```
Select XAMPP for Windows - mysql -u root                                                    —  □  ×

MariaDB [(none)]> use health;
Database changed
MariaDB [health]> show tables;
+----------------+
| Tables_in_health |
+----------------+
| checks         |
| contract       |
| doctor         |
| drug           |
| patient        |
| pharama_company |
| pharmacy       |
| prescribe      |
| sold_by        |
+----------------+
9 rows in set (0.001 sec)

MariaDB [health]> desc checks;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| d_ssn | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn | varchar(10) | NO   | PRI | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.059 sec)

MariaDB [health]> desc contract;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| pc_name    | varchar(20) | NO   | PRI | NULL    |       |
| p_name     | varchar(20) | NO   | PRI | NULL    |       |
| s_date     | date        | YES  |     | NULL    |       |
| end_date   | date        | YES  |     | NULL    |       |
| text       | varchar(30) | YES  |     | NULL    |       |
| supervisor | varchar(20) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
6 rows in set (0.051 sec)

MariaDB [health]> insert into patient values("P001","Gaurav");
ERROR 1136 (21S01): Column count doesn't match value count at row 1
MariaDB [health]> desc patient;
```

```
Select XAMPP for Windows - mysql -u root                                                    —  □  ×

ERROR 1136 (21S01): Column count doesn't match value count at row 1
MariaDB [health]> desc patient;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| p_ssn   | varchar(20) | NO   | PRI | NULL    |       |
| name    | varchar(20) | NO   |     | NULL    |       |
| address | varchar(30) | YES  |     | NULL    |       |
| age     | int(11)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.045 sec)

MariaDB [health]> insert into patient values("P001","Gaurav","BGP",20);
Query OK, 1 row affected (0.009 sec)

MariaDB [health]> insert into patient values("P002","Sonu","Patna",65),("P003","Divesh","UP",80),("P004","Ram","Delhi",40),("P005","Ravi","Mumbai",35);
Query OK, 4 rows affected (0.011 sec)
Records: 4  Duplicates: 0  Warnings: 0

MariaDB [health]> desc drug;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| trade_name | varchar(20) | NO   | PRI | NULL    |       |
| formula    | varchar(20) | YES  |     | NULL    |       |
| pc_name    | varchar(10) | YES  | MUL | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.062 sec)

MariaDB [health]> insert into durg values("Nice","CH2M1","Nandi"),("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","nandi");
ERROR 1146 (42S02): Table 'health.durg' doesn't exist
MariaDB [health]> insert into drug values("Nice","CH2M1","Nandi"),("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","nandi");
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`health`.`drug`, CONSTRAINT `drug_ibfk_1` FOREIGN KEY (`pc_name`) REFERENCES `pharama_company` (`pc_name`))
MariaDB [health]> show tabeles;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'tabeles' at line 1
MariaDB [health]> show tables;
+----------------+
| Tables_in_health |
+----------------+
| checks         |
```

```
MariaDB [health]> show tables;
+------------------+
| Tables_in_health |
+------------------+
| checks           |
| contract         |
| doctor           |
| drug             |
| patient          |
| pharama_company  |
| pharmacy         |
| prescribe        |
| sold_by          |
+------------------+
9 rows in set (0.001 sec)

MariaDB [health]> desc pharama_company;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| pc_name  | varchar(20) | NO   | PRI | NULL    |       |
| address  | varchar(20) | YES  |     | NULL    |       |
| phone_no | bigint(10)  | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
3 rows in set (0.050 sec)

MariaDB [health]> insert into pharama_comapany values("nandi","Delhi",7867656568);
ERROR 1146 (42S02): Table 'health.pharama_comapany' doesn't exist
MariaDB [health]> insert into pharama_company values("nandi","Delhi",7867656568);
Query OK, 1 row affected (0.010 sec)

MariaDB [health]> insert into pharama_company values("cipla","Mumbai",9967656568),("zinc","Goa",7879876545),("lupin","Up",9643434242),("mankind","chennai",7876845354);
Query OK, 4 rows affected (0.009 sec)
Records: 4  Duplicates: 0  Warnings: 0

MariaDB [health]> insert into drug values("Nice","CH2M1","Nandi"),("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","manlind");
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`health`.`drug`, CONSTRAINT `drug_ibfk_1` FOREIGN KEY (`pc_name`) REFERENCES `pharama_company` (`pc_name`))
MariaDB [health]> insert into drug values("Nice","CH2M1","Nandi");
Query OK, 1 row affected (0.009 sec)

MariaDB [health]> insert into drug values("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","nandi");
Query OK, 4 rows affected (0.009 sec)
```

```
MariaDB [health]> insert into drug values("Nice","CH2M1","Nandi"),("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","manlind");
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`health`.`drug`, CONSTRAINT `drug_ibfk_1` FOREIGN KEY (`pc_name`) REFERENCES `pharama_company` (`pc_name`))
MariaDB [health]> insert into drug values("Nice","CH2M1","Nandi");
Query OK, 1 row affected (0.009 sec)

MariaDB [health]> insert into drug values("sumo","N12MG2","cipla"),("Paracetomol","CH3","cipla"),("zincovit","xyz","zinc"),("sinarest","N12MG15","nandi");
Query OK, 4 rows affected (0.009 sec)
Records: 4  Duplicates: 0  Warnings: 0

MariaDB [health]> desc checks;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| d_ssn | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn | varchar(10) | NO   | PRI | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.047 sec)

MariaDB [health]> desc doctor;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| d_ssn      | varchar(10) | NO   | PRI | NULL    |       |
| name       | varchar(20) | NO   |     | NULL    |       |
| speciality | varchar(20) | YES  |     | NULL    |       |
| experience | varchar(10) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.049 sec)

MariaDB [health]> select * from doctor;
Empty set (0.003 sec)

MariaDB [health]> insert into doctor values("D001","Durgesh","Cardilogists","5+");
Query OK, 1 row affected (0.010 sec)

MariaDB [health]> insert into doctor values("D002","Prince","Physicians","3+"),("D003","Aman","gastroenterologists","8+"),("D004","Amit","Nerologists","7+");
Query OK, 3 rows affected (0.009 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [health]>
```

```
MariaDB [(none)]> use health;
Database changed
MariaDB [health]> show tables;
+-----------------+
| Tables_in_health |
+-----------------+
| checks          |
| contract        |
| doctor          |
| drug            |
| patient         |
| pharama_company |
| pharmacy        |
| prescribe       |
| sold_by         |
+-----------------+
9 rows in set (0.001 sec)

MariaDB [health]> desc checks;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| d_ssn | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn | varchar(10) | NO   | PRI | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.034 sec)

MariaDB [health]> select * from checks;
+-------+-------+
| d_ssn | p_ssn |
+-------+-------+
| D001  | P001  |
| D002  | P002  |
| D003  | P003  |
| D004  | P004  |
+-------+-------+
4 rows in set (0.008 sec)

MariaDB [health]> desc contract;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| pc_name    | varchar(20) | NO   | PRI | NULL    |       |
```

```
MariaDB [health]> desc contract;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| pc_name    | varchar(20) | NO   | PRI | NULL    |       |
| p_name     | varchar(20) | NO   | PRI | NULL    |       |
| s_date     | date        | YES  |     | NULL    |       |
| end_date   | date        | YES  |     | NULL    |       |
| text       | varchar(30) | YES  |     | NULL    |       |
| supervisor | varchar(20) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
6 rows in set (0.035 sec)

MariaDB [health]> select * from contract;
+---------+------------+------------+------------+------+------------+
| pc_name | p_name     | s_date     | end_date   | text | supervisor |
+---------+------------+------------+------------+------+------------+
| apollo  | bartell    | 2013-06-09 | 2020-08-08 | sss  | anand      |
| biocon  | healthmart | 1999-10-04 | 2021-06-07 | uuu  | anup       |
| cipla   | omnicare   | 1999-09-20 | 2023-06-01 | hhh  | sagar      |
| lupin   | riteaid    | 1997-11-11 | 2029-04-29 | vvv  | kumar      |
| medplus | walgreens  | 1982-09-07 | 2025-11-20 | nnn  | nirup      |
+---------+------------+------------+------------+------+------------+
5 rows in set (0.008 sec)

MariaDB [health]> desc doctor;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| d_ssn      | varchar(10) | NO   | PRI | NULL    |       |
| name       | varchar(20) | NO   |     | NULL    |       |
| speciality | varchar(20) | YES  |     | NULL    |       |
| experience | varchar(10) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.030 sec)

MariaDB [health]> select * from doctor;
+-------+---------+--------------------+------------+
| d_ssn | name    | speciality         | experience |
+-------+---------+--------------------+------------+
| D001  | Durgesh | Cardilogists       | 5+         |
| D002  | Prince  | Physicians         | 3+         |
| D003  | Aman    | gastroenterologists| 8+         |
```

```
MariaDB [health]> select * from doctor;
+-------+---------+--------------------+------------+
| d_ssn | name    | speciality         | experience |
+-------+---------+--------------------+------------+
| D001  | Durgesh | Cardilogists       | 5+         |
| D002  | Prince  | Physicians         | 3+         |
| D003  | Aman    | gastroenterologists| 8+         |
| D004  | Amit    | Nerologists        | 7+         |
| D005  | Ramu    | Cardilogists       | 10+        |
+-------+---------+--------------------+------------+
5 rows in set (0.003 sec)

MariaDB [health]> desc drug;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| trade_name | varchar(20) | NO   | PRI | NULL    |       |
| formula    | varchar(20) | YES  |     | NULL    |       |
| pc_name    | varchar(10) | YES  | MUL | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.032 sec)

MariaDB [health]> select * from=
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '=' at line
1
MariaDB [health]> select * from drug;
+------------+---------+---------+
| trade_name | formula | pc_name |
+------------+---------+---------+
| Nice       | CH2M1   | Nandi   |
| Paracetomol| CH3     | cipla   |
| sinarest   | N12MG15 | nandi   |
| sumo       | N12MG2  | cipla   |
| zincovit   | xyz     | zinc    |
+------------+---------+---------+
5 rows in set (0.003 sec)

MariaDB [health]> desc patient;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| p_ssn | varchar(20) | NO   | PRI | NULL    |       |
```

```
MariaDB [health]> desc patient;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| p_ssn   | varchar(20) | NO   | PRI | NULL    |       |
| name    | varchar(20) | NO   |     | NULL    |       |
| address | varchar(30) | YES  |     | NULL    |       |
| age     | int(11)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.034 sec)

MariaDB [health]> select * from patient;
+-------+--------+---------+-----+
| p_ssn | name   | address | age |
+-------+--------+---------+-----+
| P001  | Gaurav | BGP     |  20 |
| P002  | Sonu   | Patna   |  65 |
| P003  | Divesh | UP      |  80 |
| P004  | Ram    | Delhi   |  40 |
| P005  | Ravi   | Mumbai  |  35 |
+-------+--------+---------+-----+
5 rows in set (0.003 sec)

MariaDB [health]> desc pharama_company;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| pc_name  | varchar(20) | NO   | PRI | NULL    |       |
| address  | varchar(20) | YES  |     | NULL    |       |
| phone_no | bigint(10)  | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
3 rows in set (0.035 sec)

MariaDB [health]> select * from pharama_company;
+---------+-----------+------------+
| pc_name | address   | phone_no   |
+---------+-----------+------------+
| apollo  | chennai   | 9844050879 |
| biocon  | andhra    | 9877654678 |
| cipla   | Mumbai    | 9967656568 |
| lupin   | Up        | 9643434242 |
| mankind | chennai   | 7876845354 |
| medplus | karnataka | 8073805341 |
```

```
MariaDB [health]> select * from pharama_company;
+---------+-----------+------------+
| pc_name | address   | phone_no   |
+---------+-----------+------------+
| apollo  | chennai   | 9844050879 |
| biocon  | andhra    | 9877654678 |
| cipla   | Mumbai    | 9967656568 |
| lupin   | Up        | 9643434242 |
| mankind | chennai   | 7876845354 |
| medplus | karnataka | 8073805341 |
| nandi   | Delhi     | 7867656568 |
| zinc    | Goa       | 7879876545 |
+---------+-----------+------------+
8 rows in set (0.007 sec)

MariaDB [health]> desc pharama;
ERROR 1146 (42S02): Table 'health.pharama' doesn't exist
MariaDB [health]> desc pharmacy;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| p_name  | varchar(20) | NO   | PRI | NULL    |       |
| address | varchar(20) | YES  |     | NULL    |       |
| ph_no   | bigint(10)  | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.034 sec)

MariaDB [health]> select * from pharmacy;
+------------+-----------+------------+
| p_name     | address   | ph_no      |
+------------+-----------+------------+
| bartell    | chennai   | 8097065432 |
| healthmart | tiptur    | 8550885540 |
| omnicare   | tumkur    | 7890654678 |
| riteaid    | shivmogga | 8076812345 |
| walgreens  | bangalore | 9823412345 |
+------------+-----------+------------+
5 rows in set (0.003 sec)

MariaDB [health]> desc prescribe;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
```

```
MariaDB [health]> desc prescribe;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| d_ssn         | varchar(10) | NO   | PRI | NULL    |       |
| p_ssn         | varchar(10) | NO   | PRI | NULL    |       |
| trade_name    | varchar(20) | NO   | PRI | NULL    |       |
| prescribe_date| date        | YES  |     | NULL    |       |
| quantity      | int(5)      | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
5 rows in set (0.032 sec)

MariaDB [health]> select * from presribe;
ERROR 1146 (42S02): Table 'health.presribe' doesn't exist
MariaDB [health]> select * from prescribe;
+-------+-------+------------+----------------+----------+
| d_ssn | p_ssn | trade_name | prescribe_date | quantity |
+-------+-------+------------+----------------+----------+
| D001  | P001  | Nice       | 2021-05-29     |        3 |
| D002  | P002  | Paracetomol | 2021-09-20    |       10 |
| D003  | P003  | sinarest   | 2021-04-08     |       30 |
| D004  | P004  | sumo       | 2020-09-20     |       40 |
| D005  | P005  | zincovit   | 2020-10-04     |       50 |
+-------+-------+------------+----------------+----------+
5 rows in set (0.003 sec)

MariaDB [health]> desc sold_by;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| trade_name | varchar(20) | NO   | PRI | NULL    |       |
| p_name     | varchar(20) | NO   | PRI | NULL    |       |
| price      | int(8)      | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.032 sec)

MariaDB [health]> select * from sold_by;
+------------+------------+-------+
| trade_name | p_name     | price |
+------------+------------+-------+
| Nice       | bartell    | 30000 |
| Paracetomol | healthmart | 20000 |
| sinarest   | omnicare   | 12000 |
```

```
  | trade_name     | varchar(20) | NO  | PRI | NULL |      |
  | prescribe_date | date        | YES |     | NULL |      |
  | quantity       | int(5)      | YES |     | NULL |      |
  +----------------+-------------+-----+-----+---------+------+
5 rows in set (0.032 sec)

MariaDB [health]> select * from presribe;
ERROR 1146 (42S02): Table 'health.presribe' doesn't exist
MariaDB [health]> select * from prescribe;
+-------+-------+-------------+----------------+----------+
| d_ssn | p_ssn | trade_name  | prescribe_date | quantity |
+-------+-------+-------------+----------------+----------+
| D001  | P001  | Nice        | 2021-05-29     |        3 |
| D002  | P002  | Paracetomol | 2021-09-20     |       10 |
| D003  | P003  | sinarest    | 2021-04-08     |       30 |
| D004  | P004  | sumo        | 2020-09-20     |       40 |
| D005  | P005  | zincovit    | 2020-10-04     |       50 |
+-------+-------+-------------+----------------+----------+
5 rows in set (0.003 sec)

MariaDB [health]> desc sold_by;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| trade_name | varchar(20) | NO   | PRI | NULL    |       |
| p_name     | varchar(20) | NO   | PRI | NULL    |       |
| price      | int(8)      | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.032 sec)

MariaDB [health]> select * from sold_by;
+------------+------------+-------+
| trade_name | p_name     | price |
+------------+------------+-------+
| Nice       | bartell    | 30000 |
| Paracetomol| healthmart | 20000 |
| sinarest   | omnicare   | 12000 |
| sumo       | riteaid    |  9000 |
| zincovit   | walgreens  | 45000 |
+------------+------------+-------+
5 rows in set (0.003 sec)

MariaDB [health]>
```