

R.V. COLLEGE OF ENGINEERING

OBSERVATION / DATA SHEET

Date _____ Name Anusha Manjunath Raykar
Dept./Lab DBMS Class MCA-I Expt./No. 02
Title Patient Database

Entities

1. Patients

2. Doctors

3. pharmaceutical
Company

4. Drug

5. pharmacy

Attributes

SSN, Name, address, age.

SSN, name, speciality, years of experience

name, address, phonenumber

Tradename, formula, price.

name, address, phonenumber

Relationships:-

1. Doctor checks patient.

2. Drug made by pharmaceutical company.

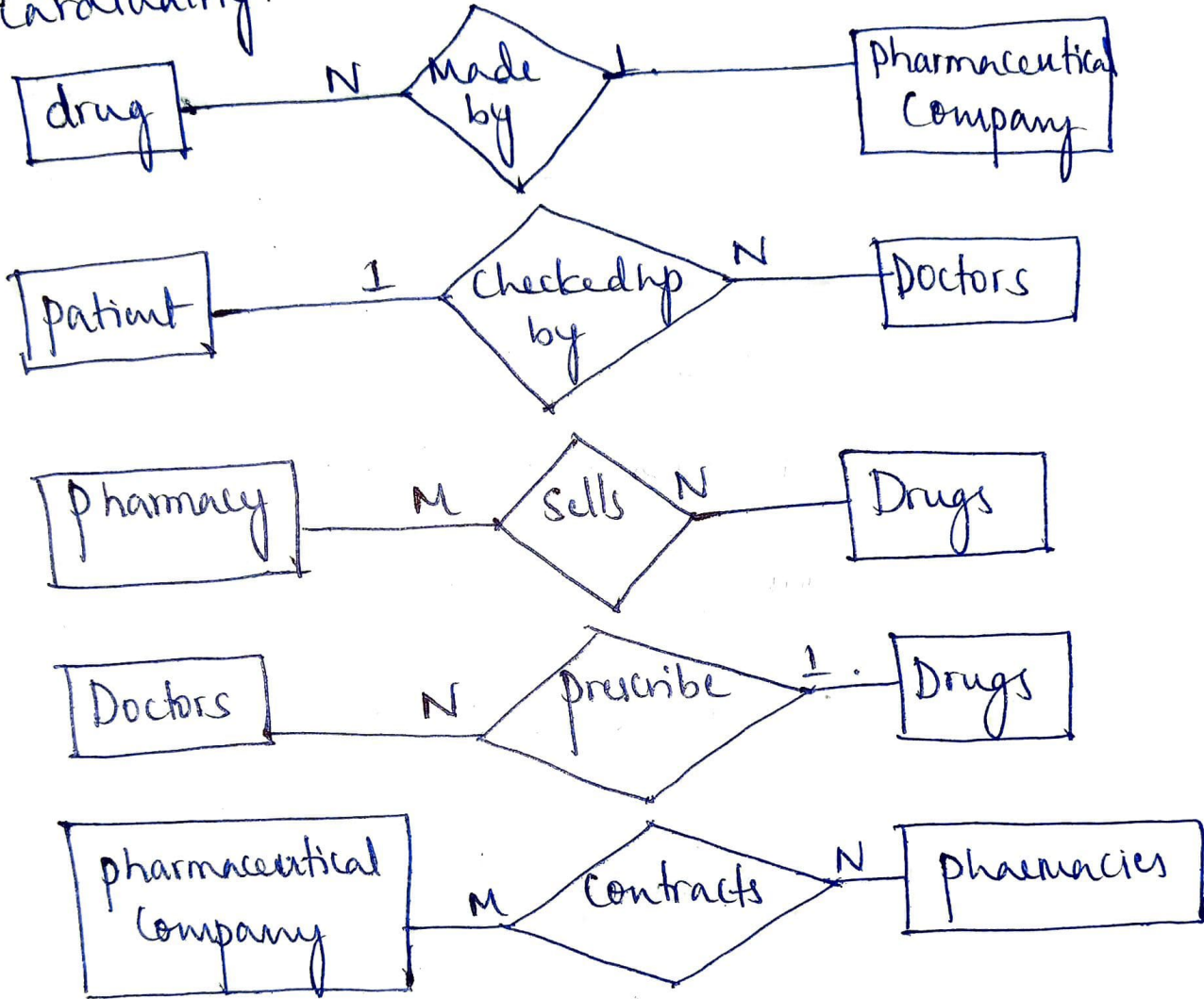
3. pharmacy sells Drugs

4. Doctors prescribe medicines to patients

Signature of
Teacher incharge

5. pharmaceutical company Contracts pharmacies

Cardinality:-



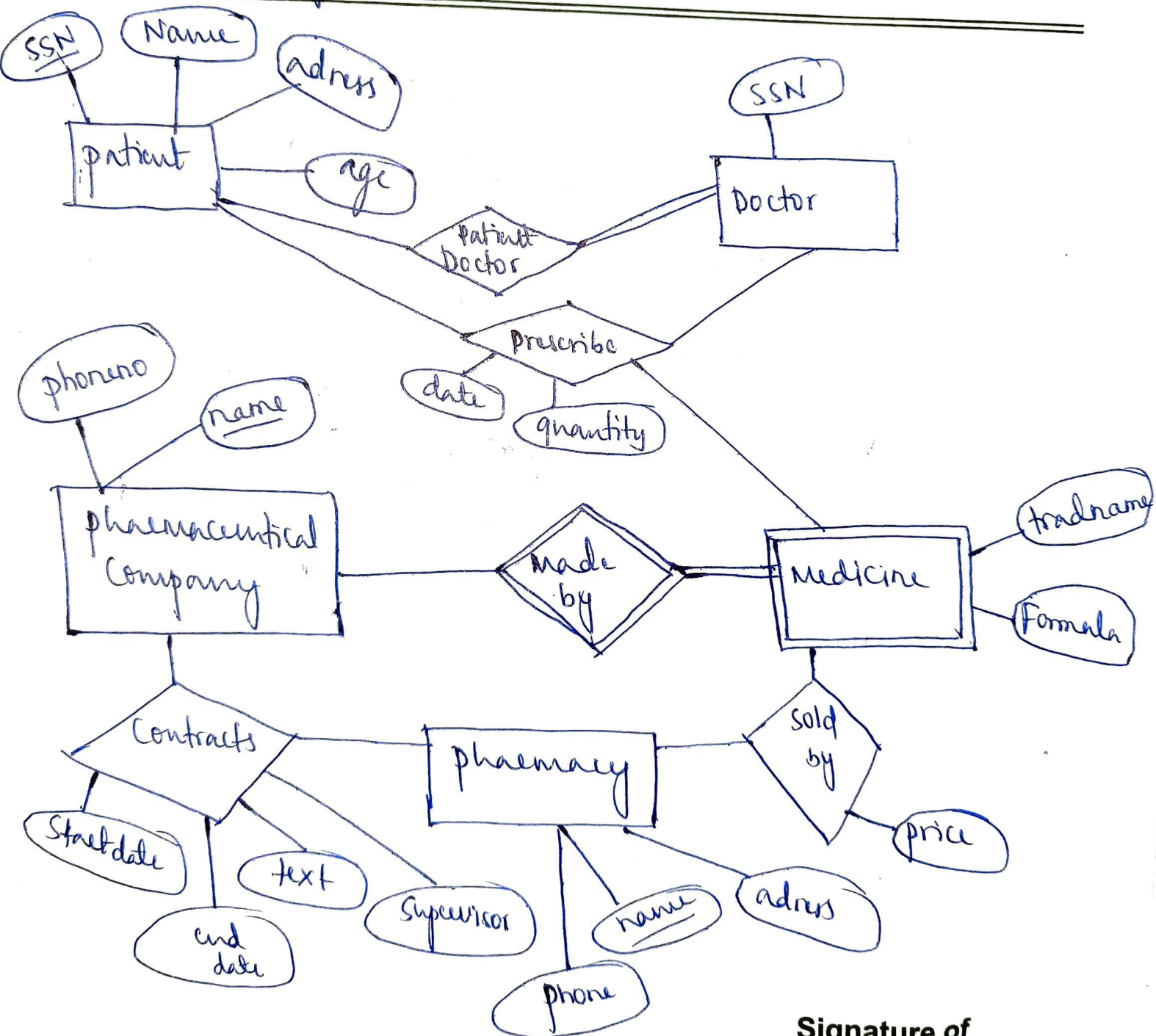
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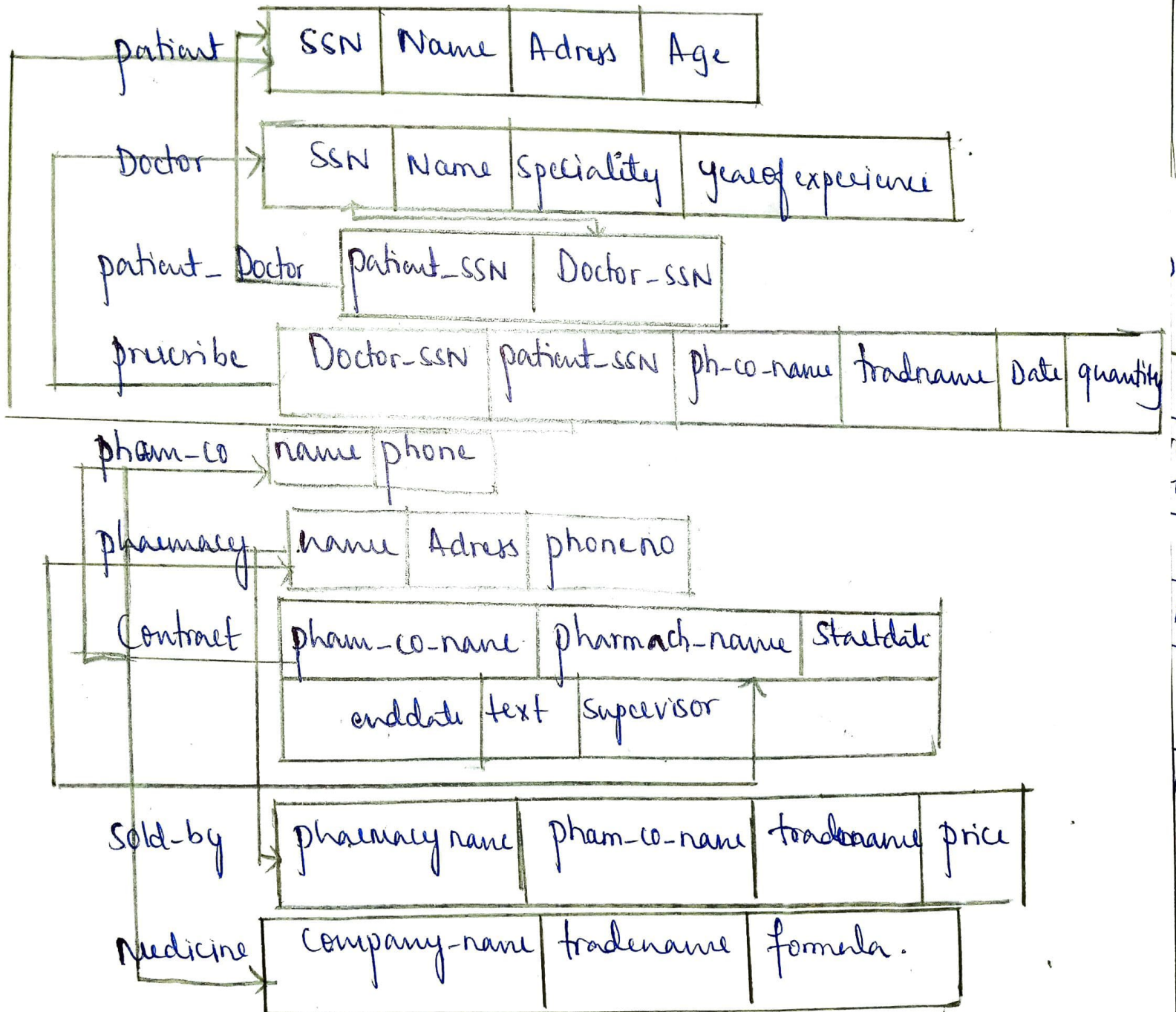
Title ER - Diagram



Signature of
Teacher incharge

Peti

Schema Diagram:-



```
MariaDB [dbms2]> show tables;
```

Tables_in_dbms2	
checks	
contract	
doctor	
drug	
patient	
phar_com	
pharmacy	
prescribe	
sold_by	

9 rows in set (0.00 sec)

```
MariaDB [dbms2]> desc doctor;
```

Field	Type	Null	Key	Default	Extra
d_ssn	varchar(10)	NO	PRI	NULL	
d_name	varchar(10)	NO		NULL	
speciality	varchar(10)	YES		NULL	
experience	int(4)	YES		NULL	

4 rows in set (0.01 sec)

```
MariaDB [dbms2]> desc patient;
```

Field	Type	Null	Key	Default	Extra
p_ssn	varchar(10)	NO	PRI	NULL	
p_name	varchar(10)	NO		NULL	
adress	varchar(10)	YES		NULL	
age	int(4)	YES		NULL	

4 rows in set (0.01 sec)

```
MariaDB [dbms2]> desc pharmacy;
```

Field	Type	Null	Key	Default	Extra
ph_name	varchar(10)	NO	PRI	NULL	
ph_adress	varchar(15)	YES		NULL	
ph_phoneno	bigint(10)	YES		NULL	

3 rows in set (0.00 sec)

```
MariaDB [dbms2]> desc phar_com;
```

Field	Type	Null	Key	Default	Extra
phcom_name	varchar(10)	NO	PRI	NULL	
phcom_adress	varchar(15)	YES		NULL	
phcom_phoneno	bigint(10)	YES		NULL	

```
3 rows in set (0.00 sec)
```

```
MariaDB [dbms2]> desc drug;
```

Field	Type	Null	Key	Default	Extra
trade_name	varchar(15)	NO	PRI	NULL	
formula	varchar(20)	YES		NULL	
ph_name	varchar(15)	YES	MUL	NULL	

```
3 rows in set (0.00 sec)
```

```
MariaDB [dbms2]> desc checks;
```

Field	Type	Null	Key	Default	Extra
d_ssn	varchar(10)	NO	PRI	NULL	
p_ssn	varchar(5)	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
MariaDB [dbms2]> desc sold_by;
```

Field	Type	Null	Key	Default	Extra
tradename	varchar(15)	NO	PRI	NULL	
ph_name	varchar(10)	NO	PRI	NULL	
price	varchar(5)	YES		NULL	

```
MariaDB [dbms2]> desc contract;
```

Field	Type	Null	Key	Default	Extra
phcom_name	varchar(10)	NO	PRI	NULL	
ph_name	varchar(10)	NO	PRI	NULL	
s_date	date	YES		NULL	
e_date	date	YES		NULL	
text	varchar(20)	YES		NULL	
supervisor	varchar(15)	YES		NULL	

```
6 rows in set (0.01 sec)
```

```
MariaDB [dbms2]> desc prescribe;
```

Field	Type	Null	Key	Default	Extra
d_ssn	varchar(5)	NO	PRI	NULL	
p_ssn	varchar(5)	NO	PRI	NULL	
trade_name	varchar(10)	NO	PRI	NULL	
date	date	YES		NULL	
quality	varchar(10)	YES		NULL	

```
5 rows in set (0.00 sec)
```

1)list the details of patient who are 20 year old and have been checked by eye specialist

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>=20 and d.speciality="eye";

```
Google Chrome> 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>=20 and d.speciality="eye";
```

p_ssn	p_name	adress	age
p200	ankita	banglore	23
p200	ankita	banglore	23

```
2 rows in set (0.00 sec)
```

2)list the details of the doctors who have given thebprescription to more than 20 patients in year 2019

select d.*,count(p.d_ssn) from doctor d,prescribe p where d.d_ssn=p.d_ssn and year(p.date)="2019" group by p.d_ssn having count(p.d_ssn)>=2;

```
MariaDB [dbms2]> select d.*,count(p.d_ssn) from doctor d,prescribe p where d.d_ssn=p.d_ssn and year(p.date)="2019" group by p.d_ssn having count(p.d_ssn)>=2;
```

d_ssn	d_name	speciality	experience	count(p.d_ssn)
d100	rakesh	surgery	2000	2

```
1 row in set (0.01 sec)
```

3. List the details of pharmaceutical companies who supply drug to more than 10 pharmacies in the same city where company is located.

select p.* from phar_com p, pharmacy ph, contract c where p.phcom_name=c.phcom_name and ph.ph_name=c.ph_name and p.phcom_adress=ph.ph_adress and c.supervisor >=1;

```
MariaDB [lab2]> select p.comp_name,p.phone from pham_co p,contract c,pharmacy ph where ph.pharm_name=c.pharma_name and p.comp_name=c.pcomp_name and p.adress=ph.adress having count(c.pharma_name)>=1;
+-----+-----+
| comp_name | phone |
+-----+-----+
| zzz      | 1234556 |
+-----+-----+
```

4. Retrieve the details of Doctor having maximum experience

select * from doctor where experience in(select max(experience) from doctor);

```
MariaDB [dbms2]> select * from doctor where experience in(select max(experience) from doctor);
+-----+-----+-----+-----+
| d_ssn | d_name | speciality | experience |
+-----+-----+-----+-----+
| d600  | akshata | eye        | 3000       |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

5. List the details of drug supplied by all pharmacies

select distinct d.* from drug d,pharmacy p, sold_by s where p.ph_name=s.ph_name and s.tradenam=d.trade_name;

```
MariaDB [dbms2]> select distinct d.* from drug d,pharmacy p, sold_by s where p.ph_name=s.ph_name and s.tradenam=d.trade_name;
+-----+-----+-----+
| trade_name | formula | ph_name |
+-----+-----+-----+
| nicyplus   | yyy     | wellfare |
| pharacetamol | xxx     | wellfare |
| thyronorm  | hhh     | modicare |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

6. List the details of drug supplied by only one pharmaceutical company

select d.*, count(ph_name) from drug d group by ph_name having count(ph_name)=1;

```
MariaDB [dbms2]> select d.*, count(ph_name) from drug d group by ph_name having count(ph_name)=1;
+-----+-----+-----+-----+
| trade_name | formula | ph_name | count(ph_name) |
+-----+-----+-----+-----+
| thyronorm  | hhh     | modicare | 1              |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```