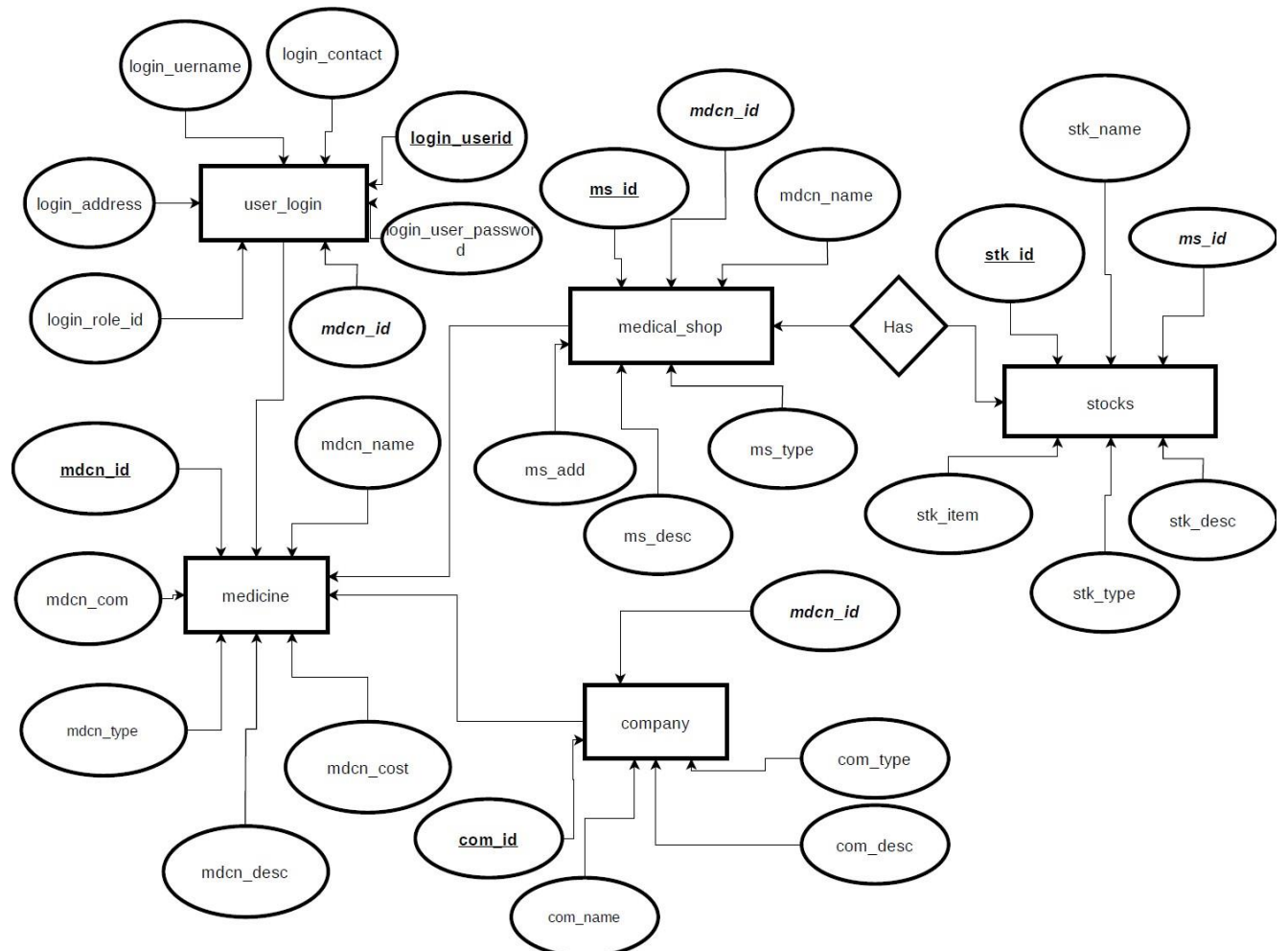


ER – Diagram and its explanations



Relational model :

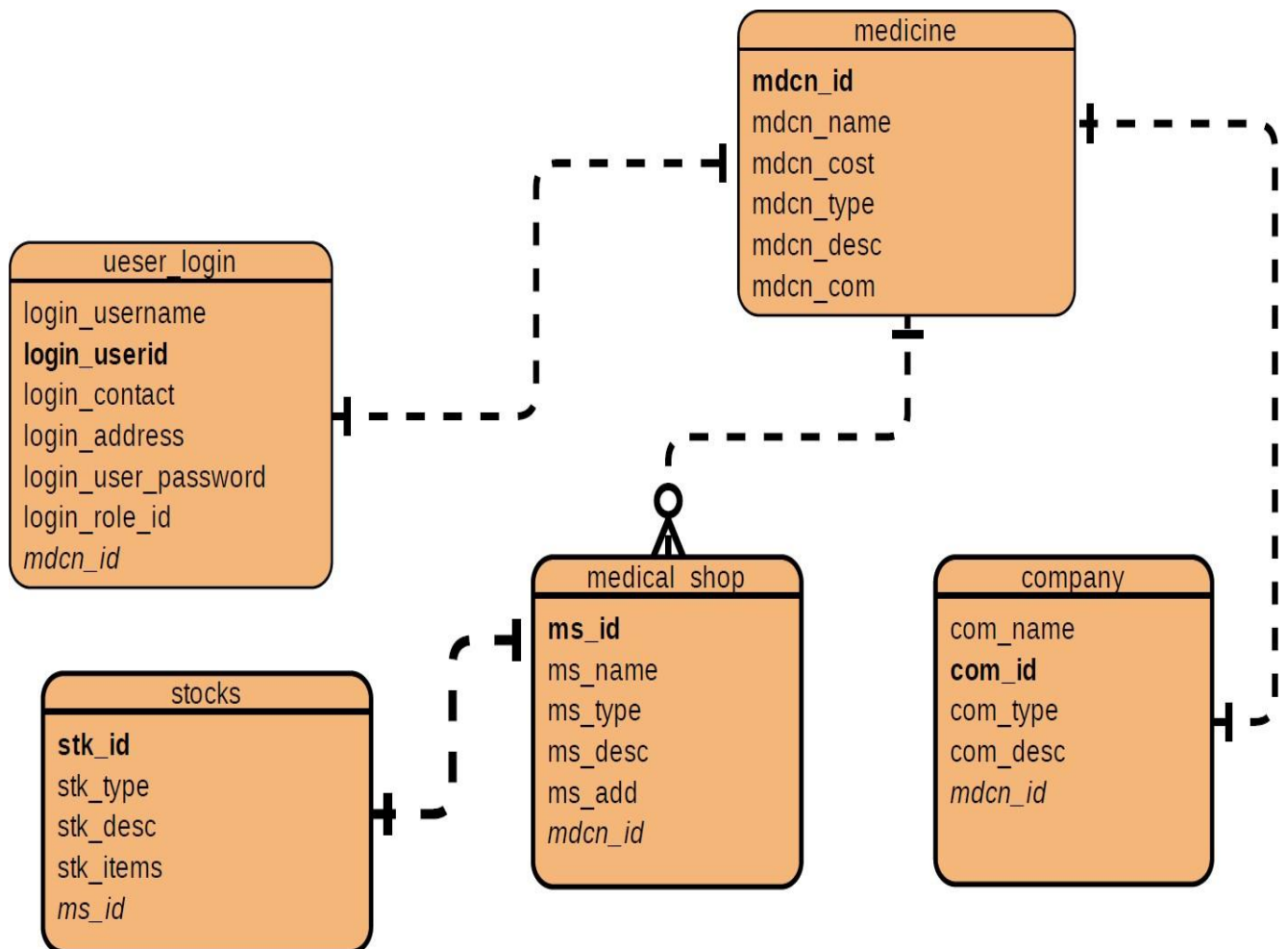


Figure 1: Relational model of the database

SQL Queries:

1. Query to create the database:

Create database DBMS_Project;

2. Query to create the table Medicine_Table:

create table Medicine(mdcn_id int(20) Primary Key, mdcn_name varchar(50), mdcn_cost int(30), mdcn_type varchar(30), mdcn_desc varchar(30), mdcn_com varchar(30));

```
MariaDB [Medical_Store]> desc Medicine;
```

Field	Type	Null	Key	Default	Extra
mdcn_id	int(20)	NO	PRI	NULL	
mdcn_name	varchar(50)	YES		NULL	
mdcn_cost	int(30)	YES		NULL	
mdcn_type	varchar(30)	YES		NULL	
mdcn_desc	varchar(30)	YES		NULL	
mdcn_com	varchar(30)	YES		NULL	

6 rows in set (0.04 sec)

3. Query to create the table Medical_Shop:

create table Medical_shop(ms_id int(20) Primary Key, ms_name varchar(50), ms_type varchar(50), ms_desc varchar(50), ms_address varchar(50), mdcn_id int(20), Foreign Key(mdcn_id) References Medicine(mdcn_id));

```
MariaDB [Medical_Store]> desc Medical_shop;
```

Field	Type	Null	Key	Default	Extra
ms_id	int(20)	NO	PRI	NULL	
ms_name	varchar(50)	YES		NULL	
ms_type	varchar(50)	YES		NULL	
ms_desc	varchar(50)	YES		NULL	
ms_address	varchar(50)	YES		NULL	

mdcn_id	int(20)	YES	MUL	NULL	
---------	---------	-----	-----	------	--

4. Query to create the table Stocks:

Create create table Stocks(stk_id int(20) Primary Key,stk_num int(30),stk_items varchar(50),ms_id int(20),Foreign Key(ms_id) References Medical_shop(ms_id));

MariaDB [Medical_Store]> desc Company;

Field	Type	Null	Key	Default	Extra
com_id	int(20)	NO	PRI	NULL	
com_name	varchar(50)	YES		NULL	
com_type	varchar(50)	YES		NULL	
mdcn_id	int(20)	YES	MUL	NULL	

4 rows in set (0.01 sec)

5. Query to create the table USER_LOGIN:

MariaDB [Medical_Store]> create table User_Login(login_userId int(20) Primary Key, login_userName varchar(50),login_userContact int(30),login_userAdd varchar(50),login_userPass int(20),login_userRoleId int(20),mdcn_id int(20), Foreign Key(mdcn_id) References Medicine(mdcn_id));

MariaDB [Medical_Store]> desc User_Login;

Field	Type	Null	Key	Default	Extra
login_userId	int(20)	NO	PRI	NULL	
login_userName	varchar(50)	YES		NULL	
login_userContact	int(30)	YES		NULL	
login_userAdd	varchar(50)	YES		NULL	
login_userPass	int(20)	YES		NULL	
login_userRoleId	int(20)	YES		NULL	
mdcn_id	int(20)	YES	MUL	NULL	

7 rows in set (0.04 sec)

6. Query to insert/select alter data into Medicine_Table:

```
MariaDB [Medical_Store]> insert into
Medicine(mdcn_id,mdcn_name,mdcn_cost,mdcn_type,mdcn_desc,mdcn_com)
values(101,'Paracetamol',10,'PainKiller','use to treat pain and fever','Panadol');
```

```
MariaDB [Medical_Store]> insert into
Medicine(mdcn_id,mdcn_name,mdcn_cost,mdcn_type,mdcn_desc,mdcn_com)
values(102,'Lyrica',10,'Painkiller','use to treat neuropathic ','Lyrica1');
```

```
MariaDB [Medical_Store]> insert into
Medicine(mdcn_id,mdcn_name,mdcn_cost,mdcn_type,mdcn_desc,mdcn_com)
values(103,'Januvia',20,'Heart','use to treat heart failure ','Jnuvia10');
```

```
MariaDB [Medical_Store]> insert into
Medicine(mdcn_id,mdcn_name,mdcn_cost,mdcn_type,mdcn_desc,mdcn_com)
values(105,'Delsym',68,'Cough','use to treat Cough ','Delsym');
```

```
MariaDB [Medical_Store]> select * from Medicine;
```

```
+-----+-----+-----+-----+-----+-----+
| mdcn_id | mdcn_name | mdcn_cost | mdcn_type | mdcn_desc | mdcn_com |
+-----+-----+-----+-----+-----+-----+
| 101 | Paracetamol | 10 | PainKiller | use to treat pain and fever | Panadol |
| 102 | Lyrica | 10 | Painkiller | use to treat neuropathic | Lyrica1 |
| 103 | Januvia | 20 | Heart | use to treat heart failure | Jnuvia10 |
| 104 | Enbrel | 100 | Bone | use to treat arthritis | Enbrel |
| 105 | Delsym | 68 | Cough | use to treat Cough | Delsym |
+-----+-----+-----+-----+-----+-----+
```

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

7. Query to insert/select alter data into Medical_shop:

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id) values(01,'Apollo
Pharmacy','Pharmacy','you can find chemist and all general purpose','Kolkata',101);
```

```
Query OK, 1 row affected (0.06 sec)
```

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(02,'NRS','Pharmacy','you can find chemist and all general
purpose','Kolkata',102);
```

```
Query OK, 1 row affected (0.04 sec)
```

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(03,'Medplus','Pharmacy','you can find chemist ','All India',103);
```

```
Query OK, 1 row affected (0.06 sec)
```

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(04,'Medplus','Pharmacy','you can find chemist ','All India',104);
```

Query OK, 1 row affected (0.05 sec)

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(05,'Medplus','Pharmacy','you can find chemist ','All India',108);
```

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`medical_store`.`medical_shop`, CONSTRAINT `medical_shop_ibfk_1` FOREIGN KEY (`mdcn_id`) REFERENCES `medicine` (`mdcn_id`))

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(06,'Pharma','Pharmacy','you can find chemist ','All India',104);
```

Query OK, 1 row affected (0.95 sec)

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(07,'Pharma','Pharmacy','you can find chemist ','All India',105);
```

Query OK, 1 row affected (0.03 sec)

```
MariaDB [Medical_Store]> insert into
Medical_shop(ms_id,ms_name,ms_type,ms_desc,ms_address,mdcn_id)
values(08,'Pharma','Pharmacy','you can find chemist ','All India',102);
```

Query OK, 1 row affected (0.04 sec)

```
MariaDB [Medical_Store]> select * from Medical_shop;
```

ms_id	ms_name	ms_type	ms_desc	ms_address	mdcn_id
1	Apollo Pharmacy	Pharmacy	you can find chemist and all general purpose	Kolkata	101
2	NRS	Pharmacy	you can find chemist and all general purpose	Kolkata	102
3	Medplus	Pharmacy	you can find chemist	All India	103
4	Medplus	Pharmacy	you can find chemist	All India	104
5	Medplus	Pharmacy	you can find chemist	All India	105
6	Pharma	Pharmacy	you can find chemist	All India	104
7	Pharma	Pharmacy	you can find chemist	All India	105
8	Pharma	Pharmacy	you can find chemist	All India	102

8. Query to insert/select alter data into Company:

```
MariaDB [Medical_Store]> insert into Company(com_id,com_name,com_type,mdcn_id)
values(100,'Lyrical','Generic',102);
```

Query OK, 1 row affected (0.16 sec)

```
MariaDB [Medical_Store]> insert into Company(com_id,com_name,com_type,mdcn_id)
values(101,'Jnuvia10','Generic',103);
```

Query OK, 1 row affected (0.05 sec)

```
MariaDB [Medical_Store]> insert into Company(com_id,com_name,com_type,mdcn_id)
values(102,'Enbrel','Generic',104);
```

Query OK, 1 row affected (0.14 sec)

```
MariaDB [Medical_Store]> insert into Company(com_id,com_name,com_type,mdcn_id)
values(103,'Delsym','Generic',105);
```

Query OK, 1 row affected (0.02 sec)

```
MariaDB [Medical_Store]> select * from company;
```

```
+-----+-----+-----+-----+
| com_id | com_name | com_type | mdcn_id |
+-----+-----+-----+-----+
|      99 | Panadol  | Generic  |      101 |
|      100 | Lyrical  | Generic  |      102 |
|      101 | Jnuvia10 | Generic  |      103 |
|      102 | Enbrel   | Generic  |      104 |
|      103 | Delsym   | Generic  |      105 |
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

9. Query to insert/select alter data into Stocks:

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9090,5,'Paracetamol',1);
```

Query OK, 1 row affected (0.06 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9091,100,'Lyrica',2);
```

Query OK, 1 row affected (0.02 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9092,500,'Januvia',3);
```

Query OK, 1 row affected (0.02 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9093,50,'Januvia',4);
```

Query OK, 1 row affected (0.13 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9094,150,'Enbrel',4);
```

Query OK, 1 row affected (0.11 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9095,170,'Enbrel',6);
```

Query OK, 1 row affected (0.12 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9096,170,'Delsym',6);
```

Query OK, 1 row affected (0.04 sec)

```
MariaDB [Medical_Store]> insert into Stocks(stk_id,stk_num,stk_items,ms_id)
values(9097,190,'Lyrice',6);
```

Query OK, 1 row affected (0.10 sec)

```
MariaDB [Medical_Store]> select * from stocks;
```

```
+-----+-----+-----+-----+
| stk_id | stk_num | stk_items | ms_id |
+-----+-----+-----+-----+
|  9090 |      5 | Paracetamol | 1 |
|  9091 |     100 | Lyrica | 2 |
|  9092 |     500 | Januvia | 3 |
|  9093 |      50 | Januvia | 4 |
|  9094 |     150 | Enbrel | 4 |
|  9095 |     170 | Enbrel | 6 |
|  9096 |     170 | Delsym | 6 |
|  9097 |     190 | Lyrice | 6 |
+-----+-----+-----+-----+
```

8 rows in set (0.00 sec)

10. Query to insert/select alter data into User_login:

```
MariaDB [Medical_Store]> insert into
User_Login(login_userId,login_userName,login_userContact,login_userAdd,login_userPa
ss,mdcn_id) values(12018,'John',7687089899,'Birati',1234,102);
```

Query OK, 1 row affected, 1 warning (0.02 sec)

```
MariaDB [Medical_Store]> insert into
User_Login(login_userId,login_userName,login_userContact,login_userAdd,login_userPa
ss,mdcn_id) values(12019,'Koustav',8787069899,'Airpoty',15655,103);
```

Query OK, 1 row affected, 1 warning (0.02 sec)


```
MariaDB [Medical_Store]> insert into
User_Login(login_userId,login_userName,login_userContact,login_userAdd,login_userPa
ss,mdcn_id) values(12019,'Joey',87870695564,'Mumbai',15655,104);
```

```
ERROR 1062 (23000): Duplicate entry '12019' for key 'PRIMARY'
```

```
MariaDB [Medical_Store]> insert into
User_Login(login_userId,login_userName,login_userContact,login_userAdd,login_userPa
ss,mdcn_id) values(12020,'Joey',87870695564,'Mumbai',15655,104);
```

```
Query OK, 1 row affected, 1 warning (0.03 sec)
```

```
MariaDB [Medical_Store]> select * from user_login;
```

```
+-----+-----+-----+-----+-----+-----+
| login_userId | login_userName | login_userContact | login_userAdd | login_userPass | mdcn_id |
+-----+-----+-----+-----+-----+-----+
| 12017 | Soumyadip | 2147483647 | Birati | 1234 | 101 |
| 12018 | John | 2147483647 | Birati | 1234 | 102 |
| 12019 | Koustav | 2147483647 | Airpoty | 15655 | 103 |
| 12020 | Joey | 2147483647 | Mumbai | 15655 | 104 |
+-----+-----+-----+-----+-----+-----+
```

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

11. Query to Drop a Column:

```
MariaDB [Medical_Store]> alter table user_login drop column login_userRoleId;
```

```
Query OK, 0 rows affected (0.67 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [Medical_Store]> desc user_login;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| login_userId   | int(20)       | NO   | PRI | NULL    |      |
| login_userName | varchar(50)    | YES  |     | NULL    |      |
| login_userContact | int(30)       | YES  |     | NULL    |      |
| login_userAdd  | varchar(50)    | YES  |     | NULL    |      |
| login_userPass | int(20)       | YES  |     | NULL    |      |
| mdcn_id        | int(20)       | YES  | MUL | NULL    |      |
+-----+-----+-----+-----+-----+-----+
```

```
6 rows in set (0.11 sec)
```

12. Query to Select Medicine as desc by price :

```
MariaDB [Medical_Store]> select * from medicine order by mdcn_cost desc;
```

```
+-----+-----+-----+-----+-----+
| mdcn_id | mdcn_name | mdcn_cost | mdcn_type | mdcn_desc | mdcn_com |
+-----+-----+-----+-----+-----+
| 104 | Enbrel | 100 | Bone | use to treat arthritis | Enbrel |
| 105 | Delsym | 68 | Cough | use to treat Cough | Delsym |
| 103 | Januvia | 20 | Heart | use to treat heart failure | Jnuvia10 |
| 101 | Paracetamol | 10 | PainKiller | use to treat pain and fever | Panadol |
| 102 | Lyrica | 10 | Painkiller | use to treat neuropathic | Lyrica1 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

13. Query to Select Stock as asc by stk_num :

```
MariaDB [Medical_Store]> select * from stocks order by stk_num asc;
```

```
+-----+-----+-----+-----+
| stk_id | stk_num | stk_items | ms_id |
+-----+-----+-----+-----+
| 9090 | 5 | Paracetamol | 1 |
| 9093 | 50 | Januvia | 4 |
| 9091 | 100 | Lyrica | 2 |
| 9094 | 150 | Enbrel | 4 |
| 9095 | 170 | Enbrel | 6 |
| 9096 | 170 | Delsym | 6 |
| 9097 | 190 | Lyrice | 6 |
| 9092 | 500 | Januvia | 3 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

14. Query to Select Stock as desc by stk_num :

```
MariaDB [Medical_Store]> select * from stocks order by stk_num desc;
```

```
+-----+-----+-----+-----+
| stk_id | stk_num | stk_items | ms_id |
+-----+-----+-----+-----+
```

stk_id	stk_num	stk_items	ms_id
9092	500	Januvia	3
9097	190	Lyrice	6
9095	170	Enbrel	6
9096	170	Delsym	6
9094	150	Enbrel	4
9091	100	Lyrica	2
9093	50	Januvia	4
9090	5	Paracetamol	1

8 rows in set (0.00 sec)

15. Query to Update Stock number where stock id is 9096:

```
UPDATE `stocks` SET `stk_num` = '198' WHERE `stocks`.`stk_id` = 9096;
```

16. Query to Update Stock number where stock id is 9093:

```
UPDATE `stocks` SET `stk_num` = '198' WHERE `stocks`.`stk_id` = 9096;4
```

MariaDB [Medical_Store]> select * from stocks;

stk_id	stk_num	stk_items	ms_id
9090	5	Paracetamol	1
9091	100	Lyrica	2
9092	500	Januvia	3
9093	560	Januvia	4
9094	150	Enbrel	4
9095	170	Enbrel	6
9096	198	Delsym	6
9097	190	Lyrice	6

8 rows in set (0.00 sec)

17. Query to Update Medicine cost (ID=101):

```
UPDATE `medicine` SET `mdcn_cost` = '19' WHERE `medicine`.`mdcn_id` = 101;
```

MariaDB [Medical_Store]> select * from stocks;

stk_id	stk_num	stk_items	ms_id
--------	---------	-----------	-------

	9090		5	Paracetamol	1
	9091		100	Lyrica	2
	9092		500	Januvia	3
	9093		560	Januvia	4
	9094		150	Enbrel	4
	9095		170	Enbrel	6
	9096		198	Delsym	6
	9097		190	Lyrica	6

8 rows in set (0.00 sec)

18. Delete one user:

```
DELETE FROM `user_login` WHERE `user_login`.`login_userId` = 12020
```

19. Alter table medicine set default null:

```
ALTER TABLE `user_login` CHANGE `mdcn_id` `mdcn_id` INT(20) NULL;
```

```
MariaDB [Medical_Store]> desc medicine;
```

Field	Type	Null	Key	Default	Extra
mdcn_id	int(20)	NO	PRI	NULL	
mdcn_name	varchar(50)	YES		NULL	
mdcn_cost	int(30)	YES		NULL	
mdcn_type	varchar(30)	YES		NULL	
mdcn_desc	varchar(30)	YES		NULL	
mdcn_com	varchar(30)	YES		NULL	

6 rows in set (0.15 sec)

20. Alter table medicine increase varchar size:

```
ALTER TABLE `user_login` CHANGE `login_userAdd` `login_userAdd` VARCHAR(255) CHARACTER SET latin1 COLLATE latin1_swedish_ci NULL DEFAULT NULL;
```

21. Alter table medicine set login_useradd as not null:

```
ALTER TABLE `user_login` CHANGE `login_userAdd` `login_userAdd` TEXT CHARACTER SET latin1 COLLATE latin1_swedish_ci NOT NULL;
```

Field	Type	Null	Key	Default	Extra
mdcn_id	int(20)	NO	PRI	NULL	
mdcn_name	varchar(50)	YES		NULL	
mdcn_cost	int(30)	YES		NULL	
mdcn_type	varchar(30)	YES		NULL	
mdcn_desc	varchar(30)	YES		NULL	
mdcn_com	varchar(30)	YES		NULL	

6 rows in set (0.01 sec)

22. Search in medicine where medicine id is > 103:

MariaDB [Medical_Store]> SELECT * FROM `medicine` WHERE `mdcn_id` > 103;

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
104	Enbrel	100	Bone	use to treat arthritis	Enbrel
105	Delsym	68	Cough	use to treat Cough	Delsym

2 rows in set (0.00 sec)

23. Search in medicine where medicine name contains et:

MariaDB [Medical_Store]> SELECT * FROM `medicine` WHERE `mdcn_name` LIKE '%et%';

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
101	Paracetamol	19	PainKiller	use to treat pain and fever	Panadol

1 row in set (0.00 sec)

24. Search in medicine where cost b/w 50-100:

MariaDB [Medical_Store]> SELECT * FROM `medicine` WHERE `mdcn_cost` BETWEEN 50 AND 1000;

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
---------	-----------	-----------	-----------	-----------	----------

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
104	Enbrel	100	Bone	use to treat arthritis	Enbrel
105	Delsym	68	Cough	use to treat Cough	Delsym

2 rows in set (0.00 sec)

25. Search in medicine where cost not b/w 50-100:

MariaDB [Medical_Store]> SELECT * FROM `medicine` WHERE `mdcn_cost` NOT BETWEEN 50 AND 100;

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
101	Paracetamol	19	PainKiller	use to treat pain and fever	Panadol
102	Lyrica	10	Painkiller	use to treat neuropathic	Lyrical
103	Januvia	20	Heart	use to treat heart failure	Jnuvia10

3 rows in set (0.00 sec)

26. Search in stock where stock num. b/w 90-300:

MariaDB [Medical_Store]> SELECT * FROM `stocks` WHERE `stk_num` BETWEEN 90 AND 300;

stk_id	stk_num	stk_items	ms_id
9091	100	Lyrica	2
9094	150	Enbrel	4
9095	170	Enbrel	6
9096	198	Delsym	6
9097	190	Lyrica	6

5 rows in set (0.00 sec)

27. Search in stock where stock num. not b/w 90-300:

```
MariaDB [Medical_Store]> SELECT * FROM `stocks` WHERE `stk_num` not BETWEEN 90 AND 300;
```

stk_id	stk_num	stk_items	ms_id
9090	5	Paracetamol	1
9092	500	Januvia	3
9093	560	Januvia	4

3 rows in set (0.00 sec)

28. Search in medicine where type is painkiller or bone:

```
MariaDB [Medical_Store]> select * from medicine where mdcn_type="Painkiller" or mdcn_type="Bone";
```

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
101	Paracetamol	19	PainKiller	use to treat pain and fever	Panadol
102	Lyrica	10	Painkiller	use to treat neuropathic	Lyrica1
104	Enbrel	100	Bone	use to treat arthritis	Enbrel

3 rows in set (0.00 sec)

29. Search in medical shop where type is bone and only found in india (Nested Query):

```
MariaDB [Medical_Store]> select * from medical_shop where ms_address="All India" and mdcn_id=
```

```
-> (Select mdcn_id from medicine where mdcn_type="bone");
```

ms_id	ms_name	ms_type	ms_desc	ms_address	mdcn_id
4	Medplus	Pharmacy	you can find chemist	All India	104
6	Pharma	Pharmacy	you can find chemist	All India	104

2 rows in set (0.00 sec)

30. Select in user who brought Paraceteamol (Nested):

```
MariaDB [Medical_Store]> select * from User_login where mdcn_id=
-> (Select mdcn_id from medicine where mdcn_name="Paraceteamol");
```

```
+-----+-----+-----+-----+-----+-----+
| login_userId | login_userName | login_userContact | login_userAdd | login_userPass | mdcn_id |
+-----+-----+-----+-----+-----+-----+
| 12017 | Soumyadip | 2147483647 | Birati | 1234 | 101 |
+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.00 sec)

31. Select minimum medical cost in medicine table:

```
MariaDB [Medical_Store]> SELECT MIN(mdcn_cost) AS SmallestPrice from medicine;
```

```
+-----+
| SmallestPrice |
+-----+
| 10 |
+-----+
```

1 row in set (0.02 sec)

32. Select maximum medical cost in medicine table:

```
MariaDB [Medical_Store]> SELECT max(mdcn_cost) AS MaxPrice from medicine;
```

```
+-----+
| MaxPrice |
+-----+
| 100 |
+-----+
```

1 row in set (0.00 sec)

33. Select avg medical cost in medicine table:

```
MariaDB [Medical_Store]> SELECT avg(mdcn_cost) AS Avgprice from medicine;
```

```
+-----+
| Avgprice |
+-----+
```



```
| 43.4000 |
+-----+
1 row in set (0.14 sec)
```

34. Select total medical cost in medicine table:

```
MariaDB [Medical_Store]> SELECT sum(mdcn_cost) AS Avgprice from medicine;
+-----+
| Avgprice |
+-----+
|      217 |
+-----+
1 row in set (0.01 sec)
```

35. Select total medical cost in mdcn_type:

```
MariaDB [Medical_Store]> select * from medicine group by mdcn_type;
+-----+-----+-----+-----+-----+-----+
| mdcn_id | mdcn_name | mdcn_cost | mdcn_type | mdcn_desc | mdcn_com |
+-----+-----+-----+-----+-----+-----+
| 104 | Enbrel | 100 | Bone | use to treat arthritis | Enbrel |
| 105 | Delsym | 68 | Cough | use to treat Cough | Delsym |
| 103 | Januvia | 20 | Heart | use to treat heart failure | Jnuvia10 |
| 101 | Paraceteamol | 19 | PainKiller | use to treat pain and fever | Panadol |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

36. Select Company name of Paraceteamol (Nested):

```
MariaDB [Medical_Store]> select * from company where mdcn_id=
-> (Select mdcn_id from medicine where mdcn_name="Paraceteamol");
+-----+-----+-----+-----+
| com_id | com_name | com_type | mdcn_id |
+-----+-----+-----+-----+
| 99 | Panadol | Generic | 101 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

37. Select Company name of Januvia (Nested):

```
MariaDB [Medical_Store]> select * from company where mdcn_id=
-> (Select mdcn_id from medicine where mdcn_name="Januvia");
```

```
+-----+-----+-----+-----+
| com_id | com_name | com_type | mdcn_id |
+-----+-----+-----+-----+
|    101 | Jnuvia10 | Generic  |    103 |
+-----+-----+-----+-----+
```

1 row in set (0.00 sec)

38. Inner Join b/w user and medicine(mdcn_id)::

```
MariaDB [Medical_Store]> select * from User_login inner join medicine on
user_login.mdcn_id=medicine.mdcn_id;
```

```
+-----+-----+-----+-----+-----+-----+
-- +-----+-----+-----+-----+-----+-----+
-----+-----+
| login_userId | login_userName | login_userContact | login_userAdd |
login_userPass | mdcn_id | mdcn_id | mdcn_name      | mdcn_cost | mdcn_type  |
mdcn_desc      | mdcn_com |
```

```
+-----+-----+-----+-----+-----+-----+
-- +-----+-----+-----+-----+-----+-----+
-----+-----+
|          12017 | Soumyadip      |          2147483647 | Birati        |
1234 |          101 |          101 | Paracetamol    |          19 | PainKiller | use to treat
```

```
pain and fever | Panadol |
```

```
|          12018 | John           |          2147483647 | Birati        |
1234 |          102 |          102 | Lyrica         |          10 | Painkiller | use to treat
```

```
neuropathic | Lyrical |
|          12019 | Koustav        |          2147483647 | Airpoty       |
15655 |          103 |          103 | Januvia        |          20 | Heart      | use to treat
```

```
+-----+-----+-----+-----+-----+-----+
-- +-----+-----+-----+-----+-----+-----+
-----+-----+
```

3 rows in set (0.00 sec)

39. Inner Join b/w company and medicine(mdcn_id):

```
MariaDB [Medical_Store]> select * from company inner join medicine on
company.mdcn_id=medicine.mdcn_id;
```

```
+-----+-----+-----+-----+-----+-----+
-----+-----+
```

com_id	com_name	com_type	mdcn_id	mdcn_id	mdcn_name	mdcn_cost
mdcn_type	mdcn_desc			mdcn_com		
99	Panadol	Generic	101	101	Paraceteamol	19
PainKiller	use to treat pain and fever		Panadol			
100	Lyrical	Generic	102	102	Lyrica	10
Painkiller	use to treat neuropathic		Lyrical			
101	Jnuvia10	Generic	103	103	Januvia	20
Heart	use to treat heart failure		Jnuvia10			
102	Enbrel	Generic	104	104	Enbrel	100
Bone	use to treat arthritis		Enbrel			
103	Delsym	Generic	105	105	Delsym	68
Cough	use to treat Cough		Delsym			

5 rows in set (0.00 sec)

40. Inner Join b/w Medical shop and medicine(mdcn_id):

```
MariaDB [Medical_Store]> select * from medical_shop inner join medicine on
medical_shop.mdcn_id=medicine.mdcn_id;
```

ms_id	ms_name	ms_type	ms_desc	ms_address	mdcn_id	mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
1	Apollo Pharmacy	Pharmacy	you can find chemist and all general purpose	Kolkata	101	101	Paraceteamol	19	PainKiller	use to treat pain and fever	Panadol
2	NRS	Pharmacy	you can find chemist and all general purpose	Kolkata	102	102	Lyrica	10	Painkiller	use to treat neuropathic	Lyrical
3	Medplus	Pharmacy	you can find chemist	All India	103	103	Januvia	20	Heart	use to treat heart failure	Jnuvia10
4	Medplus	Pharmacy	you can find chemist	All India	104	104	Enbrel	100	Bone	use to treat arthritis	Enbrel
5	Medplus	Pharmacy	you can find chemist	All India	105	105	Delsym	68	Cough	use to treat Cough	Delsym

6	Pharma		Pharmacy	you can find chemist		
All India	104	104	Enbrel	100	Bone	use to treat arthritis

7	Pharma		Pharmacy	you can find chemist		
All India	105	105	Delsym	68	Cough	use to treat Cough

8	Pharma		Pharmacy	you can find chemist		
All India	102	102	Lyrica	10	Painkiller	use to treat neuropathic

8 rows in set (0.00 sec)

41. Inner Join b/w Medical shop and stocks(ms_id):

MariaDB [Medical_Store]> select * from medical_shop inner join stocks on medical_shop.ms_id=stocks.ms_id;

ms_id	ms_name	ms_type	ms_desc	ms_address	mdcn_id	stk_id	stk_num	stk_items	ms_id
1	Apollo Pharmacy	Pharmacy	you can find chemist and all general purpose	Kolkata	101	9090	5	Paracetamol	1
2	NRS	Pharmacy	you can find chemist and all general purpose	Kolkata	102	9091	100	Lyrica	2
3	Medplus	Pharmacy	you can find chemist	All India	103	9092	500	Januvia	3
4	Medplus	Pharmacy	you can find chemist	All India	104	9093	560	Januvia	4
4	Medplus	Pharmacy	you can find chemist	All India	104	9094	150	Enbrel	4
6	Pharma	Pharmacy	you can find chemist	All India	104	9095	170	Enbrel	6
6	Pharma	Pharmacy	you can find chemist	All India	104	9096	198	Delsym	6
6	Pharma	Pharmacy	you can find chemist	All India	104	9097	190	Lyrica	6

8 rows in set (0.10 sec)

42. Left Outer Join b/w Medical shop and medicine(mdcn_id):

```
MariaDB [Medical_Store]> select * from User_login left outer join medicine on  
user_login.mdcn_id=medicine.mdcn_id;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-----+-----+  
  
| login_userId | login_userName | login_userContact | login_userAdd | login_userPass | mdcn_id | mdcn_id |  
mdcn_name | mdcn_cost | mdcn_type | mdcn_desc | mdcn_com |  
  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-----+-----+  
  
| 12017 | Soumyadip | 2147483647 | Birati | 1234 | 101 | 101 | Paraceteamol | 19 |  
PainKiller | use to treat pain and fever | Panadol |  
  
| 12018 | John | 2147483647 | Birati | 1234 | 102 | 102 | Lyrica | 10 | Painkiller | use  
to treat neuropathic | Lyrica1 |  
  
| 12019 | Koustav | 2147483647 | Airpoty | 15655 | 103 | 103 | Januvia | 20 | Heart |  
use to treat heart failure | Jnuvia10 |  
  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-----+-----+  
  
3 rows in set (0.00 sec)
```

43. Right Outer Join b/w Medical shop and medicine(mdcn_id):

```
MariaDB [Medical_Store]> select * from User_login right outer join medicine on  
user_login.mdcn_id=medicine.mdcn_id;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-- +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-----+-----+  
  
| login_userId | login_userName | login_userContact | login_userAdd |  
login_userPass | mdcn_id | mdcn_id | mdcn_name | mdcn_cost | mdcn_type |  
mdcn_desc | mdcn_com |  
  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-- +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
-----+-----+  
  
| 12017 | Soumyadip | 2147483647 | Birati |  
1234 | 101 | 101 | Paraceteamol | 19 | PainKiller | use to treat  
pain and fever | Panadol |  
  
| 12018 | John | 2147483647 | Birati |  
1234 | 102 | 102 | Lyrica | 10 | Painkiller | use to treat  
neuropathic | Lyrica1 |  
  
| 12019 | Koustav | 2147483647 | Airpoty |  
15655 | 103 | 103 | Januvia | 20 | Heart | use to treat  
heart failure | Jnuvia10 |  
  
| NULL | NULL | NULL | NULL |  
NULL | NULL | 104 | Enbrel | 100 | Bone | use to treat  
arthritis | Enbrel |  
  
| NULL | NULL | NULL | NULL |  
NULL | NULL | 105 | Delsym | 68 | Cough | use to treat  
Cough | Delsym |
```

44. Left Outer Join b/w User and medicine(mdcn_id):

```
MariaDB [Medical_Store]> select * from User_login left outer join medicine on  
user_login.mdcn_id=medicine.mdcn_id;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
-- +-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+

| login_userId | login_userName | login_userContact | login_userAdd |
login_userPass | mdcn_id | mdcn_id | mdcn_name      | mdcn_cost | mdcn_type |
mdcn_desc      | mdcn_com |
+-----+-----+-----+-----+-----+-----+-----+-----+
-- +-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+

|      12017 | Soumyadip      |      2147483647 | Birati      |
1234 |      101 |      101 | Paraceteamol |      19 | PainKiller | use to treat
pain and fever | Panadol |

|      12018 | John           |      2147483647 | Birati      |
1234 |      102 |      102 | Lyrica       |      10 | Painkiller | use to treat
neuropathic | Lyrica1 |

|      12019 | Koustav        |      2147483647 | Airpoty     |
15655 |      103 |      103 | Januvia      |      20 | Heart      | use to treat
heart failure | Jnuvia10 |
```

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

45. Right Outer Join b/w User and medicine(mdcn_id):

```
MariaDB [Medical_Store]> select * from User_login right outer join medicine on  
user_login.mdcn_id=medicine.mdcn_id;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+

| login_userId | login_userName | login_userContact | login_userAdd | login_userPass | mdcn_id | mdcn_id |
mdcn_name      | mdcn_cost | mdcn_type | mdcn_desc      | mdcn_com |
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+

|      12017 | Soumyadip      |      2147483647 | Birati      |      1234 |      101 |      101 | Paraceteamol |      19 |
PainKiller | use to treat pain and fever | Panadol |

|      12018 | John           |      2147483647 | Birati      |      1234 |      102 |      102 | Lyrica       |      10 | Painkiller | use
to treat neuropathic | Lyrica1 |

|      12019 | Koustav        |      2147483647 | Airpoty     |      15655 |      103 |      103 | Januvia      |      20 | Heart      |
use to treat heart failure | Jnuvia10 |
```

NULL	NULL	NULL	NULL	NULL	NULL	104	Enbrel	100	Bone	use
to treat arthritis Enbrel										
NULL	NULL	NULL	NULL	NULL	NULL	105	Delsym	68	Cough	use
to treat Cough Delsym										

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+

```

5 rows in set (0.00 sec)

46. Right Outer Join b/w stock and medical store:

```
MariaDB [Medical_Store]> select * from medical_shop right outer join stocks on
medical_shop.ms_id=stocks.ms_id;
```

ms_id	ms_name	ms_type	ms_desc	ms_address	mdcn_id	stk_id	stk_num	stk_items	ms_id
1	Apollo Pharmacy	Pharmacy	you can find chemist and all general purpose	Kolkata	101	9090	5	Paraceteamol	1
2	NRS	Pharmacy	you can find chemist and all general purpose	Kolkata	102	9091	100	Lyrice	2
3	Medplus	Pharmacy	you can find chemist	All India	103	9092	500	Januvia	3
4	Medplus	Pharmacy	you can find chemist	All India	104	9093	560	Januvia	4
4	Medplus	Pharmacy	you can find chemist	All India	104	9094	150	Enbrel	4
6	Pharma	Pharmacy	you can find chemist	All India	104	9095	170	Enbrel	6
6	Pharma	Pharmacy	you can find chemist	All India	104	9096	198	Delsym	6
6	Pharma	Pharmacy	you can find chemist	All India	104	9097	190	Lyrice	6

8 rows in set (0.00 sec)

47. Left Outer Join b/w stock and medical store:

```
MariaDB [medical_store]> select * from company left outer join medicine on
company.mdcn_id=medicine.mdcn_id;
```

com_id	com_name	com_type	mdcn_id	mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc
mdcn_com								

99	Panadol	Generic	101	101	Paracetamol	19	PainKiller	use to treat pain and fever	Panadol
100	Lyrical	Generic	102	102	Lyrica	10	Painkiller	use to treat neuropathic	Lyrical
101	Jnuvia10	Generic	103	103	Januvia	20	Heart	use to treat heart failure	Jnuvia10
102	Enbrel	Generic	104	104	Enbrel	100	Bone	use to treat arthritis	Enbrel
103	Delsym	Generic	105	105	Delsym	68	Cough	use to treat Cough	Delsym

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+
```

5 rows in set (0.00 sec)

48. Create View in medicine:

```
MariaDB [medical_store]> CREATE VIEW Medicalview AS SELECT * FROM medicine WHERE mdcn_type="painkiller";
```

49. Select View:

```
MariaDB [medical_store]> SELECT * FROM Medicalview;
```

mdcn_id	mdcn_name	mdcn_cost	mdcn_type	mdcn_desc	mdcn_com
101	Paracetamol	19	PainKiller	use to treat pain and fever	Panadol
102	Lyrica	10	Painkiller	use to treat neuropathic	Lyrical

2 rows in set (0.00 sec)

50. Drop View:

```
MariaDB [medical_store]> drop view medicalview;
```

Query OK, 0 rows affected (0.00 sec)