DQL

SOURCE CODE:

```
CREATE DATABASE LAB3
USE LAB3

DROP TABLE STDINFO;
CREATE TABLE STUDENT(
s_id int primary key,
f_name varchar(20),
m_name varchar(20),
l_name varchar(20),
wardno int,
municipality varchar(20));

insert into STUDENT values
(26,'Dom',null,'keff',02,'kalanki'),
(36,'Eom','bec','jeff',04,'tokha'),
(50,'Fom','rec','keff',03,'jorpati'),
(70,'Gom','sec','leff',09,'gwarko'),
(100,'Jom',null,'ieff',04,'balkhu'),
(08,'Aom',null,'jeff',07,'budhanilkantha'),
(07,'Bom',null,'heff',05,'balaju'),
(21,'Com','mnop','ieff',08,'kalimati'),
(80,'Hom','dec','meff',08,'gaurighat'),
(90,'Iom','wqur','heff',06,'sukhedhara');

drop table phone;
create table phone(
number bigint,
sim varchar(10),
```

```sql
balance int,
s_id int references STDINFO(s_id));

insert into phone values
(9843967104,'NTC',40,08),
(9843967104,'NTC',70,07),
(9836277189,'NCELL',43,21),
(9843967104,'NTC',50,36),
(9836277189,'NCELL',110,50),
(9843967104,'NTC',40,70),
(9836277189,'NCELL',1440,80),
(9843967104,'NTC',75,90),
(9836277189,'NCELL',33,26),
(9843967104,'NTC',69,100);

DROP TABLE BOOK;
CREATE TABLE BOOK(
b_id int primary key,
b_name varchar(50),
b_author varchar(20),
b_price int,
s_id int references STDINFO(s_id)
);

insert into BOOK values
(101,'The curse of camp cold lake','Goosebumps',1100,08),
(102,'Tombs of atuan','ursula le guan',1200,07),
(103,'call of the wild','a wolf',1300,36),
(104,'60000 leagues under the sea','diver',1400,26),
(105,'it','Pennywise',1500,50),
(106,'pride and prejudice','jane austen',1600,70),
(107,'Vagabond','sakamoto',1700,80),
```

```sql
(108,'will solvlet','John titor',1800,90);
select *from STDINFO;
select *from phone;
select *from BOOK;




exec sp_rename 'STUDENT','STDINFO';
exec sp_rename 'STDINFO.f_name','first_name','column';

CREATE TABLE STUDENTCOPY(
s_id int,
f_name varchar(50));

insert into STUDENTCOPY select s_id,first_name from STDINFO;
select *from STUDENTCOPY;

select s_id,first_name from STDINFO where
municipality='budhanilkantha';
select s_id,first_name from STDINFO where
municipality='budhanilkantha' OR municipality='tokha';
select s_id,first_name from STDINFO where
municipality='budhanilkantha' OR s_id=90;
select s_id,first_name from STDINFO where municipality
IN('budhanilkantha','gwarko','tokha','balkhu');
select s_id,first_name from STDINFO where first_name LIKE
'a%';
select s_id,first_name from STDINFO where first_name LIKE '%
v';
select s_id,first_name from STDINFO where first_name LIKE 'a%
a';
select s_id,first_name from STDINFO where m_name is NULL;
```

```
select wardno from STDINFO;
select distinct wardno from STDINFO;
select *from STDINFO order by wardno desc;
select *from STDINFO order by wardno,municipality;


select s_id,b_name,b_price from BOOK where b_price between
1000 AND 1700;
select s_id,b_name,b_price from BOOK where b_price>1700;
select s_id,b_name,b_price from BOOK where b_price<1500;
```

OUTPUTS

Creating new Table Student

	s_id	f_name	m_name	l_name	wardno	municipality
1	7	Bom	NULL	heff	5	balaju
2	8	Aom	NULL	jeff	7	budhanilkantha
3	21	Com	mnop	ieff	8	kalimati
4	26	Dom	NULL	keff	2	kalanki
5	36	Eom	bec	jeff	4	tokha
6	50	Fom	rec	keff	3	jorpati
7	70	Gom	sec	leff	9	gwarko
8	80	Hom	dec	meff	8	gaurighat
9	90	Iom	wqur	heff	6	sukhedhara
10	100	Jom	NULL	ieff	4	balkhu

Creating new Table Phone

	number	sim	balance	s_id
1	9843967104	NTC	40	8
2	9843967104	NTC	70	7
3	9836277189	NCELL	43	21
4	9843967104	NTC	50	36
5	9836277189	NCELL	110	50
6	9843967104	NTC	40	70
7	9836277189	NCELL	1440	80
8	9843967104	NTC	75	90
9	9836277189	NCELL	33	26
10	9843967104	NTC	69	100

Creating new table Book

	b_id	b_name	b_author	b_price	s_id
1	101	The curse of camp cold lake	Goosebumps	1100	8
2	102	Tombs of atuan	ursula le guan	1200	7
3	103	call of the wild	a wolf	1300	36
4	104	60000 leagues under the sea	diver	1400	26
5	105	it	Pennywise	1500	50
6	106	pride and prejudice	jane austen	1600	70
7	107	Vagabond	sakamoto	1700	80
8	108	will solvlet	John titor	1800	90

and changing table name

```
exec sp_rename 'STUDENT','STDINFO';
exec sp_rename 'STDINFO.f_name','first_name','column';
```

and Renaming column name

	s_id	first_name	m_name	l_name	wardno	municipality
1	7	Bom	NULL	heff	5	balaju
2	8	Aom	NULL	jeff	7	budhanilkantha
3	21	Com	mnop	ieff	8	kalimati
4	26	Dom	NULL	keff	2	kalanki
5	36	Eom	bec	jeff	4	tokha
6	50	Fom	rec	keff	3	jorpati
7	70	Gom	sec	leff	9	gwarko
8	80	Hom	dec	meff	8	gaurighat
9	90	Iom	wqur	heff	6	sukhedhara
10	100	Jom	NULL	ieff	4	balkhu

Copying data between tables

	s_id	f_name
1	7	Bom
2	8	Aom
3	21	Com
4	26	Dom
5	36	Eom
6	50	Fom
7	70	Gom
8	80	Hom
9	90	Iom
10	100	Jom

SELECTING S_ID AND FIRST_NAME WHEN

1. MUNICIPALITY = 'BUDHANILKANTHA'

	s_id	first_name
1	8	Aom

1. MUNICIPALITY='BUDHANILKANTHA' AND 'TOKHA'

	s_id	first_name
1	8	Aom
2	36	Eom

1. MUNCIPALITY='BUDHANILKANTHA' OR S_ID='90'

	s_id	first_name
1	8	Aom
2	90	Iom

1. WHERE MUNICIPALITY IN ('BUDHANILKANTHA','GWARKO','TOKHA','BALKHU')

	s_id	first_name
1	8	Aom
2	36	Eom
3	70	Gom
4	100	Jom

1. First name starts from 'a' (LIKE)

	s_id	first_name
1	8	Aom

1. First name end in 'v' (LIKE)

	s_id	first_name

1. First name starts and end with 'a'(LIKE)

	s_id	first_name

1. Middle name is NULL

	s_id	first_name
1	7	Bom
2	8	Aom
3	26	Dom
4	100	Jom

1. Displaying all ward no

	wardno
1	5
2	7
3	8
4	2
5	4
6	3
7	9
8	8
9	6
10	4

Only displaying DISTINCT wardno

	wardno
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9

(duplicate 4 is removed)

1. Ordering by wardno in ascending order

	s_id	first_name	m_name	l_name	wardno	municipality
1	70	Gom	sec	leff	9	gwarko
2	80	Hom	dec	meff	8	gaurighat
3	21	Com	mnop	ieff	8	kalimati
4	8	Aom	NULL	jeff	7	budhanilkantha
5	90	lom	wqur	heff	6	sukhedhara
6	7	Bom	NULL	heff	5	balaju
7	100	Jom	NULL	ieff	4	balkhu
8	36	Eom	bec	jeff	4	tokha
9	50	Fom	rec	keff	3	jorpati
10	26	Dom	NULL	keff	2	kalanki

**1. Rows with same wardno are grouped together.
Ordering it by wardno and municipality**

	s_id	first_name	m_name	l_name	wardno	municipality
1	26	Dom	NULL	keff	2	kalanki
2	50	Fom	rec	keff	3	jorpati
3	100	Jom	NULL	ieff	4	balkhu
4	36	Eom	bec	jeff	4	tokha
5	7	Bom	NULL	heff	5	balaju
6	90	lom	wqur	heff	6	sukhedhara
7	8	Aom	NULL	jeff	7	budhanilkantha
8	80	Hom	dec	meff	8	gaurighat
9	21	Com	mnop	ieff	8	kalimati
10	70	Gom	sec	leff	9	gwarko

DISPLAYING BOOK DETAILS WHEN

1. PRICE IS BETWEEN 1000 AND 1700

	s_id	b_name	b_price
1	8	The curse of camp cold lake	1100
2	7	Tombs of atuan	1200
3	36	call of the wild	1300
4	26	60000 leagues under the sea	1400
5	50	it	1500
6	70	pride and prejudice	1600
7	80	Vagabond	1700

1. PRICE IS GREATER THAN 1700

	s_id	b_name	b_price
1	90	will solvlet	1800

1. PRICE IS LESS THAN 1500

	s_id	b_name	b_price
1	8	The curse of camp cold lake	1100
2	7	Tombs of atuan	1200
3	36	call of the wild	1300
4	26	60000 leagues under the sea	1400