Lab Task 01

i.

Execution:

```
create table account
(
    account_no char(5),
    balance number not null,
    constraint acct_no_pk primary key(account_no),
    constraint chk_bal check (balance>0)
);
```

Result:

ACCOUNT...	BALANCE

ii.

Execution:

```
create table customer
(
    customer_no char(5),
    customer_name varchar2(20) not null,
    customer_city varchar2(10),
    constraint cus_no_pk primary key(customer_no)
);
```

Result:

CUSTOMER_NO	CUSTOMER_NAME	CUSTOMER_CITY

iii.

Execution:

```
create table depositor
(
    account_no char(5),
    customer_no char(5),
    constraint d_pk primary key(account_no,customer_no)
);
```

Result:

ACCOUNT_NO	CUSTOMER_NO

Lab Task 02

i.

Execution:

```
alter table customer
add date_of_birth date;
```

Result:

CUSTOMER_NO	CUSTOMER_NAME	CUSTOMER_CITY	DATE_OF_BIRTH

ii.

Execution:

```
alter table customer
drop column date_of_birth;
```

Result:

CUSTOMER_NO	CUSTOMER_NAME	CUSTOMER_CITY

iii.

Execution:

```
alter table depositor
rename column account_no to a_no;

alter table depositor
rename column customer_no to c_no;
```

Result:

A_NO	C_NO

iv.

Execution:

```
alter table depositor
add constraint depositor_fk1
foreign key(a_no) references account(account_no);

alter table depositor
add constraint depositor_fk2
foreign key(c_no) references customer(customer_no);
```

Lab Task 03

i.

Execution:

```
insert into account values('A-101', 12000);
insert into account values('A-102', 6000);
insert into account values('A-103', 2500);
```

Result:

	ACCOUNT_NO	BALANCE
1	A-101	12000
2	A-102	6000
3	A-103	2500

ii.

Execution:

```
insert into customer values('C-101', 'Alice', 'Dhaka');
insert into customer values('C-102', 'Annie', 'Dhaka');
insert into customer values('C-103', 'Bob', 'Chittagong');
insert into customer values('C-104', 'Charlie', 'Khulna');
```

Result:

	CUSTOMER_NO	CUSTOMER_NAME	CUSTOMER_CITY
1	C-101	Alice	Dhaka
2	C-102	Annie	Dhaka
3	C-103	Bob	Chittagong
4	C-104	Charlie	Khulna

iii.

Execution:

```
insert into depositor values('A-101','C-101');
insert into depositor values('A-103','C-102');
insert into depositor values('A-103','C-104');
insert into depositor values('A-102','C-103');
```

Result:

	A_NO	C_NO
1	A-101	C-101
2	A-103	C-102
3	A-103	C-104
4	A-102	C-103

Lab Task 04

i.

Execution:

```
select customer_name, customer_city
from customer;
```

Result:

	CUSTOMER_NAME	CUSTOMER_CITY
1	Alice	Dhaka
2	Annie	Dhaka
3	Bob	Chittagong
4	Charlie	Khulna

ii.

Execution:

```
select distinct customer_city
from customer;
```

Result:

	CUSTOMER_CITY
1	Dhaka
2	Khulna
3	Chittagong

iv.

Execution:

```
select account_no, balance
from account
where balance > 7000;
```

Result:

	ACCOUNT_NO	BALANCE
1	A-101	12000

v.

Execution:

```
select customer_no, customer_name, customer_city
from customer
where not(customer_city = 'Dhaka');
```

Result:

	CUSTOMER_NO	CUSTOMER_NAME	CUSTOMER_CITY
1	C-103	Bob	Chittagong
2	C-104	Charlie	Khulna

vi.

Execution:

```
select customer_name, customer_city, balance
from customer
join depositor on customer_no = c_no
join account on account_no = a_no
where balance > 7000;
```

Result:

	CUSTOMER_NAME	CUSTOMER_CITY	BALANCE
1	Alice	Dhaka	12000

vii.

Execution:

```
select customer_name, customer_city, balance
from customer
join depositor on customer_no = c_no
join account on account_no = a_no
where balance > 7000 and not(customer_city = 'Khulna');
```

Result:

	CUSTOMER_NAME	CUSTOMER_CITY	BALANCE
1	Alice	Dhaka	12000

viii.

Execution:

```
select account_no, balance, customer_no
from account
join depositor on account_no = a_no
join customer on customer_no = c_no
where c_no = 'C-102';
```

Result:

	ACCOUNT_NO	BALANCE	CUSTOMER_NO
1	A-103	2500	C-102

ix.

Execution:

```
select account_no, balance, customer_name
from account
join depositor on account_no = a_no
join customer on customer_no = c_no
where customer_city in ('Dhaka', 'Khulna');
```

Result:

	ACCOUNT_NO	BALANCE	CUSTOMER_NAME
1	A-101	12000	Alice
2	A-103	2500	Annie
3	A-103	2500	Charlie

x.

Execution:

```
select customer_no, customer_name, customer_city
from customer
where customer_no not in (select c_no from depositor);
```

Result: