

Question - 2

- create databank;
- use bank
- create table ~~bank~~ customer (cid int, cname varchar(30), loc varchar(30), gender char(1), dob date);
- create table deposit (daccno bigint, dtype varchar(30), ddate date, damt double);
- create table accounts-in (balance bigint, cid int);
- create table depositor (cid int, daccno bigint);
- create table borrower (cid int, laccno bigint);
- alter table depositor
 - > add foreign key (cid) reference customer (cid);
 - > add foreign key (daccno) reference deposit (daccno);
- alter table borrower
 - > add foreign key (cid) reference customer (cid);
 - > add foreign key (laccno) reference loan (laccno);
- alter table customer
 - > modify cname varchar(30) not null;

→ alter table bank

→ modify bloc number (30) not null;

→ alter table deposit

→ modify dtype number (30) not null;

→ alter table deposit

→ modify date double not null;

→ alter table loan

→ modify dtype number (30) not null.

→ modify last double not null;

→ show tables

→ alter table customer add primary key (id);

→ alter table bank add primary key (bcode);

→ alter table deposit add primary key (date);

→ alter table loan add primary key (lcode);

→ 1

→ desc customer;

→ desc deposit

→ desc bank;

→ desc loan;

→ desc borrower;

→ desc depositor;

→ desc amounts;

- drop table deponitor;
- drop table borrower;
- drop table amount-is;
- drop table loan;
- drop table deposit;
- drop table bank;
- drop table customer;

```
mysql> create database bank;
Query OK, 1 row affected (0.48 sec)

mysql> use bank;
Database changed
mysql> create table customer(
  -> cid int,
  -> cname varchar(30),
  -> loc varchar(30),
  -> gender char(1),
  -> dob date);
Query OK, 0 rows affected (0.99 sec)

mysql> create table bank(
  -> bcode bigint,
  ->
  -> bloc varchar(30),
  -> bstate varchar(30));
Query OK, 0 rows affected (0.20 sec)

mysql> create table deposit(
  -> dacno bigint,
  -> dtype varchar(30),
  -> ddate date,
  -> damt double);
Query OK, 0 rows affected (0.65 sec)

mysql> create table loan(
  -> lacno bigint,
  -> ltype varchar(30),
  -> ldate date,
  -> lamt double);
Query OK, 0 rows affected (1.13 sec)

mysql> create table accounts_in(
  -> bcode bigint,
  -> cid int);
Query OK, 0 rows affected (0.14 sec)

mysql> create table depositor(
  -> cid int,
  -> dacno bigint);
Query OK, 0 rows affected (0.82 sec)

mysql> create table borrower(
  -> cid int,
  -> lacno bigint);
Query OK, 0 rows affected (0.21 sec)

mysql>
```



```
mysql>
mysql> alter table depositor
  -> add foreign key(cid) references customer(cid),
  -> add foreign key(dacno) references deposit(dacno);
Query OK, 0 rows affected (1.46 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql>
mysql> alter table borrower
  -> add foreign key(cid) references customer(cid),
  -> add foreign key(lacno) references loan(lacno);
Query OK, 0 rows affected (1.41 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table customer
  -> modify cname varchar(30) not null;
Query OK, 0 rows affected (0.81 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table bank
  -> modify bloc varchar(30) not null;
Query OK, 0 rows affected (0.39 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table deposit
  -> modify dtype varchar(30) not null;
Query OK, 0 rows affected (0.53 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table deposit
  -> modify damt double not null;
Query OK, 0 rows affected (0.36 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table loan
  -> modify ltype varchar(30) not null,
  -> modify lamt double not null;
Query OK, 0 rows affected (0.35 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> show tables;
```

Tables_in_bank
accounts_in
bank
borrower
customer
deposit
depositor
loan

7 rows in set (0.09 sec)

```
mysql>
```

```
mysql> alter table customer
-> add primary key(cid);
Query OK, 0 rows affected (1.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table bank
-> add primary key(bcode);
Query OK, 0 rows affected (0.56 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table deposit
-> add primary key(dacno);
Query OK, 0 rows affected (0.36 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table loan
-> add primary key(lacno);
Query OK, 0 rows affected (0.44 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version fo
r the right syntax to use near '' at line 1
mysql> alter table customer
-> add ;s;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version fo
r the right syntax to use near '' at line 2
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version fo
r the right syntax to use near 's' at line 1
mysql>
```

```
mysql> show tables;
```

Tables_in_bank
accounts_in_bank
borrower
customer
deposit
depositor
loan

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

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
cid	int	NO	PRI	NULL	
cname	varchar(30)	NO		NULL	
loc	varchar(30)	YES		NULL	
gender	char(1)	YES		NULL	
dob	date	YES		NULL	

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

```
mysql> desc deposit;
```

Field	Type	Null	Key	Default	Extra
dacno	bigint	NO	PRI	NULL	
dtype	varchar(30)	NO		NULL	
ddate	date	YES		NULL	
damt	double	NO		NULL	

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

```
mysql> desc bank;
```

Field	Type	Null	Key	Default	Extra
bcode	bigint	NO	PRI	NULL	
bloc	varchar(30)	NO		NULL	
bstate	varchar(30)	YES		NULL	

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

```
mysql> desc loan;
```

Field	Type	Null	Key	Default	Extra
lacno	bigint	NO	PRI	NULL	
ltype	varchar(30)	NO		NULL	
ldate	date	YES		NULL	
lamt	double	NO		NULL	

Field	Type	Null	Key	Default	Extra
bcode	bigint	NO	PRI	NULL	
bloc	varchar(30)	NO		NULL	
bstate	varchar(30)	YES		NULL	

3 rows in set (0.01 sec)

mysql> desc loan;

Field	Type	Null	Key	Default	Extra
lacno	bigint	NO	PRI	NULL	
ltype	varchar(30)	NO		NULL	
ldate	date	YES		NULL	
lamt	double	NO		NULL	

4 rows in set (0.01 sec)

mysql> desc borrower;

Field	Type	Null	Key	Default	Extra
cid	int	YES	MUL	NULL	
lacno	bigint	YES	MUL	NULL	

2 rows in set (0.01 sec)

mysql> desc depositor;

Field	Type	Null	Key	Default	Extra
cid	int	YES	MUL	NULL	
dacno	bigint	YES	MUL	NULL	

2 rows in set (0.01 sec)

mysql> desc accounts_in;

Field	Type	Null	Key	Default	Extra
bcode	bigint	YES	MUL	NULL	
cid	int	YES	MUL	NULL	

2 rows in set (0.01 sec)

mysql>


```
mysql> drop table depositor;  
Query OK, 0 rows affected (0.48 sec)  
  
mysql> drop table borrower;  
Query OK, 0 rows affected (1.66 sec)  
  
mysql> drop table accounts_in;  
Query OK, 0 rows affected (0.35 sec)  
  
mysql> drop table loan;  
Query OK, 0 rows affected (0.72 sec)  
  
mysql> drop table deposit;  
Query OK, 0 rows affected (0.39 sec)  
  
mysql> drop table bank;  
Query OK, 0 rows affected (0.31 sec)  
  
mysql> drop table customer;  
Query OK, 0 rows affected (0.27 sec)  
  
mysql> show tables;  
Empty set (0.05 sec)  
  
mysql>
```