

## OUTPUT

```
mysql> CREATE DATABASE bankDatabase;
mysql> USE bankDatabase;
Database changed
mysql> CREATE TABLE bank(name VARCHAR(25) NOT NULL, code VARCHAR(10) PRIMARY KEY,
    -> address VARCHAR(50) NOT NULL);
```

```
mysql> DESC bank;
```

Field	Type	Null	Key	Default	Extra
name	varchar(25)	NO		NULL	
code	varchar(10)	NO	PRI	NULL	
address	varchar(50)	NO		NULL	

```
mysql> CREATE TABLE branch(branch_no INT PRIMARY KEY,name VARCHAR(20) NOT NULL,
    -> address VARCHAR(30) NOT NULL,bank_code VARCHAR(10) NOT NULL,
    -> FOREIGN KEY(bank_code) REFERENCES bank(code));
```

```
mysql> desc branch;
```

Field	Type	Null	Key	Default	Extra
branch_no	int	NO	PRI	NULL	
name	varchar(20)	NO		NULL	
address	varchar(30)	NO		NULL	
bank_code	varchar(10)	NO	MUL	NULL	

```
mysql> CREATE TABLE loan(loan_id INT PRIMARY KEY, loan_type VARCHAR(10) ,
    -> amount INT NOT NULL, branch_no INT NOT NULL,
    -> FOREIGN KEY(branch_no) REFERENCES branch(branch_no));
```

```
mysql> desc loan;
```

Field	Type	Null	Key	Default	Extra
loan_id	int	NO	PRI	NULL	
loan_type	varchar(10)	YES		NULL	
amount	int	NO		NULL	
branch_no	int	NO	MUL	NULL	

```
mysql> CREATE TABLE loan_installment(installment_no INT NOT NULL,
    -> loan_id INT NOT NULL, amount INT NOT NULL,
    -> PRIMARY KEY(loan_id,installment_no),
    -> FOREIGN KEY(loan_id) REFERENCES loan(loan_id));
```

```
mysql> desc loan_installment;
```

Field	Type	Null	Key	Default	Extra
installment_no	int	NO	PRI	NULL	
loan_id	int	NO	PRI	NULL	
amount	int	NO		NULL	

```
mysql> CREATE TABLE account ( account_no INT PRIMARY KEY,account_type VARCHAR(10),
```

```

-> balance DECIMAL(10,3) NOT NULL,branch_no INT NOT NULL,
-> FOREIGN KEY(branch_no) REFERENCES branch(branch_no));
mysql> desc account;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| account_no     | int           | NO   | PRI | NULL    |       |
| account_type   | varchar(10)   | YES  |     | NULL    |       |
| balance        | decimal(10,3) | NO   |     | NULL    |       |
| branch_no      | int           | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+

mysql> CREATE TABLE customer(customer_id INT PRIMARY KEY,
-> name VARCHAR(15) NOT NULL,address VARCHAR(30) NOT NULL);
mysql> DESC customer;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| customer_id    | int           | NO   | PRI | NULL    |       |
| name           | varchar(15)   | NO   |     | NULL    |       |
| address        | varchar(30)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+

mysql> CREATE TABLE customer_loan(customer_id INT NOT NULL,
-> loan_id INT NOT NULL,FOREIGN KEY(loan_id) REFERENCES loan(loan_id),
-> FOREIGN KEY(customer_id) REFERENCES customer(customer_id));
mysql> desc customer_loan;
+-----+-----+-----+-----+-----+-----+
| Field          | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| customer_id    | int  | NO   | MUL | NULL    |       |
| loan_id        | int  | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+

mysql> CREATE TABLE customer_phone(customer_id INT NOT NULL,
-> phone VARCHAR(10) NOT NULL,PRIMARY KEY(customer_id,phone),
-> FOREIGN KEY(customer_id) REFERENCES customer(customer_id));
mysql> desc customer_phone;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| customer_id    | int           | NO   | PRI | NULL    |       |
| phone          | varchar(10)   | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+-----+

mysql> CREATE TABLE customer_account(
-> customer_id INT NOT NULL,account_no INT NOT NULL,
-> FOREIGN KEY(account_no) REFERENCES account(account_no),
-> FOREIGN KEY(customer_id) REFERENCES customer(customer_id));
mysql> desc customer_account;
+-----+-----+-----+-----+-----+-----+
| Field          | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| customer_id    | int  | NO   |     | NULL    |       |
| account_no     | int  | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+

```