

OUTPUT

```
mysql> CREATE DATABASE bankDatabase;
```

```
mysql> show databases;
```

Database
bankdatabase
information_schema
mydb
mysql
performance_schema
sys
web

```
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	

3 rows in set (0.01 sec)

```
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(customer_id) REFERENCES customer(customer_id),  
-> FOREIGN KEY(loan_id) REFERENCES loan(loan_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	