

- mysql> create database step1;
➔ Query OK, 1 row affected (0.17 sec)
- mysql> use step1;
➔ Database changed
- mysql> show tables;
➔ Empty set (0.10 sec)
- mysql> create table account(
➔ account_number int primary key,
➔ branch_name varchar(20),
➔ balance decimal(10,0)
➔);
• Query OK, 0 rows affected (0.14 sec)
- mysql> desc account;
➔ +-----+-----+-----+-----+
➔ | Field | Type | Null | Key | Default | Extra |
➔ +-----+-----+-----+-----+
➔ | account_number | int | NO | PRI | NULL | |
➔ | branch_name | varchar(20) | YES | | NULL | |
➔ | balance | decimal(10,0) | YES | | NULL | |
➔ +-----+-----+-----+-----+
➔ 3 rows in set (0.04 sec)
- mysql> create table branch(
branch_id int primary key,
branch_name varchar(20),
branch_city varchar(20),
assets int
);
➔ Query OK, 0 rows affected (0.04 sec)
- mysql> create table customer (
customer_id int primary key,
customer_name varchar(20),
customer_street varchar(20),

```
customer_city varchar(20),
```

```
customer_dob varchar(20)
```

```
);
```

➔ Query OK, 0 rows affected (0.03 sec)

- mysql> desc customer;

```
➔ +-----+-----+-----+-----+-----+-----+
➔ | Field      | Type      | Null | Key | Default | Extra |
➔ +-----+-----+-----+-----+-----+-----+
➔ | customer_id | int       | NO   | PRI | NULL    |      |
➔ | customer_name | varchar(20) | YES  |     | NULL    |      |
➔ | customer_street | varchar(20) | YES  |     | NULL    |      |
➔ | customer_city | varchar(20) | YES  |     | NULL    |      |
➔ | customer_dob  | varchar(20) | YES  |     | NULL    |      |
➔ +-----+-----+-----+-----+-----+-----+
➔ 5 rows in set (0.00 sec)
```

- mysql> desc branch;

```
➔ +-----+-----+-----+-----+-----+-----+
➔ | Field      | Type      | Null | Key | Default | Extra |
➔ +-----+-----+-----+-----+-----+-----+
➔ | branch_id | int       | NO   | PRI | NULL    |      |
➔ | branch_name | varchar(20) | YES  |     | NULL    |      |
➔ | branch_city | varchar(20) | YES  |     | NULL    |      |
➔ | assets     | int       | YES  |     | NULL    |      |
➔ +-----+-----+-----+-----+-----+-----+
➔ 4 rows in set (0.00 sec)
```

- mysql> create table loan(

```
    loan_number int primary key,
```

```
    branch_id int,
```

```
    amount int,
```

```
    foreign key (branch_id) references branch(branch_id)
```

```
);
```

➔ Query OK, 0 rows affected (0.06 sec)

- mysql> desc loan;

```
➔ +-----+-----+-----+-----+-----+-----+
➔ | Field      | Type      | Null | Key | Default | Extra |
```

```

➔ +-----+-----+-----+-----+
➔ | loan_number | int | NO | PRI | NULL | |
➔ | branch_id | int | YES | MUL | NULL | |
➔ | amount | int | YES | | NULL | |
➔ +-----+-----+-----+-----+
➔ 3 rows in set (0.01 sec)

```

- mysql> create table depositor(

customer_id int,

dep_date date,

account_number int,

foreign key (customer_id) references customer(customer_id),

foreign key (account_number) references account(account_number)

);

Query OK, 0 rows affected (0.07 sec)
- mysql> create table borrower(

customer_id int,

bor_date date,

loan_number int,

foreign key (customer_id) references customer(customer_id),

foreign key (loan_number) references loan(loan_number)

);

Query OK, 0 rows affected (0.05 sec)
- mysql> desc depositor

➔ ;

➔ +-----+-----+-----+-----+

➔ | Field | Type | Null | Key | Default | Extra |

➔ +-----+-----+-----+-----+

➔ | customer_id | int | YES | MUL | NULL | |

➔ | dep_date | date | YES | | NULL | |

➔ | account_number | int | YES | MUL | NULL | |

➔ +-----+-----+-----+-----+

➔ 3 rows in set (0.00 sec)

- mysql> desc borrower;
 - ➔ +-----+-----+-----+-----+
 - ➔ | Field | Type | Null | Key | Default | Extra |
 - ➔ +-----+-----+-----+-----+
 - ➔ | customer_id | int | YES | MUL | NULL | |
 - ➔ | bor_date | date | YES | | NULL | |
 - ➔ | loan_number | int | YES | MUL | NULL | |
 - ➔ +-----+-----+-----+-----+
 - ➔ 3 rows in set (0.00 sec)
- mysql> INSERT INTO account VALUES(123,'sbi',1000.0);
 - ➔ Query OK, 1 row affected (0.04 sec)
- mysql> INSERT INTO account VALUES (1234,'tmb',2000.0);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO account VALUES (12345,'icici',300.0);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO account VALUES (123455,'icici',16000.0);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO account VALUES (123456,'sbi_vnr',16000.0);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> SELECT * FROM account;
 - ➔ +-----+-----+-----+
 - ➔ | account_number | branch_name | balance |
 - ➔ +-----+-----+-----+
 - ➔ | 123 | sbi | 1000 |
 - ➔ | 1234 | tmb | 2000 |
 - ➔ | 12345 | icici | 300 |
 - ➔ | 123455 | icici | 16000 |
 - ➔ | 123456 | sbi_vnr | 16000 |
 - ➔ +-----+-----+-----+
 - ➔ 5 rows in set (0.01 sec)
- mysql> INSERT INTO branch VALUES(111,'sbi','vnr',100);
 - ➔ Query OK, 1 row affected (0.01 sec)

- mysql> INSERT INTO branch VALUES(123,'sbi','mdu',500);
➔ Query OK, 1 row affected (0.03 sec)
- mysql> INSERT INTO branch VALUES(1234,'sbi','svks',500);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> SELECT * FROM branch;
➔ +-----+-----+-----+-----+
➔ | branch_id | branch_name | branch_city | assets |
➔ +-----+-----+-----+-----+
➔ | 111 | sbi | vnr | 100 |
➔ | 123 | sbi | mdu | 500 |
➔ | 1234 | sbi | svks | 500 |
➔ +-----+-----+-----+-----+
➔ 3 rows in set (0.00 sec)
- mysql> desc customer;
➔ +-----+-----+-----+-----+-----+-----+
➔ | Field | Type | Null | Key | Default | Extra |
➔ +-----+-----+-----+-----+-----+-----+
➔ | customer_id | int | NO | PRI | NULL | |
➔ | customer_name | varchar(20) | YES | | NULL | |
➔ | customer_street | varchar(20) | YES | | NULL | |
➔ | customer_city | varchar(20) | YES | | NULL | |
➔ | customer_dob | varchar(20) | YES | | NULL | |
➔ +-----+-----+-----+-----+-----+-----+
➔ 5 rows in set (0.00 sec)
- mysql> INSERT INTO customer VALUES(1,'bhu','xxx','apk','11-02-2004');
➔ Query OK, 1 row affected (0.01 sec)
- mysql> insert into customer VALUES(2,'abi','yyy','svks','11-01-2004');
- ➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO customer VALUES(3,'raj','zzz','mdu','26-08-2003');
➔ Query OK, 1 row affected (0.01 sec)
- mysql> SELECT * FROM customer;
➔ +-----+-----+-----+-----+-----+-----+

```

→ | customer_id | customer_name | customer_street | customer_city |
  | customer_dob |
→ +-----+-----+-----+-----+-----+
→ |      1 | bhu      | xxx      | apk
→ | 11-02-2004 |
→ |      2 | abi      | yyy      | svks
→ | 11-01-2004 |
→ |      3 | raj      | zzz      | mdu
→ | 26-08-2003 |
→ +-----+-----+-----+-----+-----+
→ 3 rows in set (0.00 sec)

```

- mysql> desc loan;

```

→ +-----+-----+-----+-----+-----+
→ | Field      | Type | Null | Key | Default | Extra |
→ +-----+-----+-----+-----+-----+
→ | loan_number | int  | NO   | PRI | NULL    |      |
→ | branch_id   | int  | YES  | MUL | NULL    |      |
→ | amount      | int  | YES  |     | NULL    |      |
→ +-----+-----+-----+-----+-----+
→ 3 rows in set (0.00 sec)

```

- mysql> INSERT INTO loan VALUES(9,111,1000);
→ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO loan VALUES(8,'123',2000);
→ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO loan VALUES(7,1234,200);
→ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO loan VALUES(10,123,2000);
→ Query OK, 1 row affected (0.01 sec)

- mysql> SELECT * FROM loan;

```

→ +-----+-----+-----+
→ | loan_number | branch_id | amount |
→ +-----+-----+-----+
→ |      7 |    1234 |    200 |
→ |      8 |     123 |   2000 |
→ |      9 |     111 |   1000 |
→ |     10 |     123 |   2000 |

```

```
➔ +-----+-----+-----+
➔ 4 rows in set (0.00 sec)
```

- mysql> INSERT INTO depositor VALUES(1,'2004-02-02',123);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO depositor VALUES(2,'2022-02-01',1234);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO depositor VALUES(2,'2014-02-01',12345);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO depositor VALUES(3,'2014-04-02',1234);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> SELECT * FROM depositor;
➔ +-----+-----+-----+
➔ | customer_id | dep_date | account_number |
➔ +-----+-----+-----+
➔ | 1 | 2004-02-02 | 123 |
➔ | 2 | 2022-02-01 | 1234 |
➔ | 2 | 2014-02-01 | 12345 |
➔ | 3 | 2014-04-02 | 1234 |
➔ +-----+-----+-----+
➔ 4 rows in set (0.00 sec)
- mysql> INSERT INTO borrower VALUES(1, '2004-02-02',7);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO borrower VALUES(2, '2022-02-01',8);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> INSERT INTO borrower VALUES(2, '2014-04-02',9);
➔ Query OK, 1 row affected (0.01 sec)
- mysql> SELECT * FROM borrower;
➔ +-----+-----+-----+
➔ | customer_id | bor_date | loan_number |

```
➔ +-----+-----+-----+
➔ |      1 | 2004-02-02 |      7 |
➔ |      2 | 2022-02-01 |      8 |
➔ |      2 | 2014-04-02 |      9 |
➔ +-----+-----+-----+
➔ 3 rows in set (0.00 sec)
```