```
a)
mysql> CREATE TABLE customer ( customer_id INT PRIMARY KEY,
   -> name VARCHAR(15), phone VARCHAR(10), address VARCHAR(100));
+----+
customer_id | name | phone
                           address
   -----
        1 | John Doe | 1234567890 | 123 Main St, Mumbai, India
        2 | Jane Doe | 0987654321 | 456 Park St, Delhi, India
        3 | Alice | 1112223333 | 789 Market St, Chennai, India
        4 Bob
                 | 4445556666 | 321 Broadway, Bangalore, India |
        5 | Charlie | 7778889999 | 654 Broadway, Kolkata, India
b)
mysql> CREATE TABLE accounts( customer_id INT NOT NULL,
   -> bank_code VARCHAR(15), account_no VARCHAR(15),
   -> account_type VARCHAR(20), balance DECIMAL(10,2),
   -> PRIMARY KEY(account_no),
   -> FOREIGN KEY(customer id) REFERENCES customer(customer id));
+----+
| customer_id | bank_code | account_no | account_type | balance |
 ______
        1 | SBI123 | ACC123456 | Savings
                                      | 10000.00 |
        3 | SBI789 | ACC345678 | Savings
                                      30000.00
        5 | SBI345 | ACC678901 | Savings
                                      | 50000.00 |
        2 | SBI456 | ACC789012 | Current
                                      20000.00
        4 | SBI012 | ACC901234 | Current
                                      40000.00
 c)
mysql> CREATE TABLE loan (loan_id INT PRIMARY KEY, loan_type VARCHAR(20),
   -> loan_amount DECIMAL(10,2), customer_id INT NOT NULL,
   -> FOREIGN KEY(customer id) REFERENCES customer(customer id));
+----+
+----+
    101 | Home Loan
                  | 500000.00 |
    102 | Car Loan | 200000.00 |
                                      2 |
    103 | Education Loan | 100000.00 |
                                      3 |
    104 | Personal Loan | 30000.00 |
    105 | Business Loan | 400000.00 |
d)
mysql> CREATE TABLE loan_installment ( loan_id INT,
   -> installment no INT,
   -> installment_amount DECIMAL(10,2),
```

```
-> PRIMARY KEY(loan_id,installment_no),
```

-> FOREIGN KEY(loan_id) REFERENCES loan(loan_id));

mysql> SELECT * FROM loan_installment;

+			+
	loan_id	 installment_no	installment_amount
	101	1	20000.00
	101	2	20000.00
	102	1	10000.00
	103	1	15000.00
	104	1	10000.00
	105	1	5000.00
	105	2	5000.00
+		++	+

e)

mysql> SELECT customer.customer_id,name,address,account_no

- -> FROM customer
- -> JOIN accounts
- -> ON customer.customer_id = accounts.customer_id;

+	+	+	++
customer_id	•	address	account_no
1 2 3 4	John Doe Jane Doe Alice Bob	123 Main St, Mumbai, India 456 Park St, Delhi, India 789 Market St, Chennai, India 321 Broadway, Bangalore, India 654 Broadway, Kolkata, India	ACC345678 ACC901234 ACC678901
+	+	 	++

f)

mysql> SELECT loan.loan_id,loan_type,total_amount_paid

- -> FROM loan
- -> JOIN (
- -> SELECT loan_id, SUM(installment_amount) AS total_amount_paid
- -> FROM loan_installment
- -> GROUP BY loan_id) paid
- -> ON loan.loan_id = paid.loan_id;

+		
loan_id lo	_ , ,	total_amount_paid
	•	'
101 Ho	ome Loan	40000.00
102 Ca	ar Loan	10000.00
103 Ed	ducation Loan	15000.00
104 Pe	ersonal Loan	10000.00
105 Bu	usiness Loan	10000.00
+	+	+