```
CREATE TABLE table1 (
  a1 INT
);
CREATE TABLE table2 (
  a2 INT
);
CREATE TABLE table3 (
  a3 INT
);
CREATE TABLE table4 (
  a4 INT,
  b4 INT
);
Current values of all the tables:
Table 1- Empty
Table 2- Empty
Table 3-
 a3
Table 4-
  a4
           b4
      4
               7
DELIMITER //
CREATE TRIGGER table1_trigger
AFTER INSERT ON table1
FOR EACH ROW
BEGIN
  INSERT INTO table2 (a2) VALUES (NEW.a1);
```

1.

Creating the Tables:

```
DELETE FROM table3 WHERE a3 = NEW.a1;

UPDATE table4
SET b4 = b4 + 1
WHERE a4 = NEW.a1;
END;
//

DELIMITER;

Now 4 has been inserted into Table T1

New state of tables are:

Table T2-

4
```

Table T3-

**Empty** 



Table T4-

```
a4 b4 8
```

2.

```
CREATE TABLE borrower_count (
    cardno INT PRIMARY KEY,
    number_of_books_borrowed INT
);
```

```
CREATE TABLE book_loans (
  loan_id INT PRIMARY KEY AUTO_INCREMENT,
  cardno INT,
  book_id INT,
  loan date DATE;
  FOREIGN KEY (cardno) REFERENCES borrower_count(cardno)
);
DELIMITER //
CREATE TRIGGER book_loans_trigger
AFTER INSERT ON book_loans
FOR EACH ROW
BEGIN
  DECLARE borrower cardno INT;
  SET borrower cardno = NEW.cardno;
  IF EXISTS (SELECT * FROM borrower_count WHERE cardno = borrower_cardno) THEN
    UPDATE borrower count
    SET number_of_books_borrowed = number_of_books_borrowed + 1
    WHERE cardno = borrower_cardno;
  ELSE
    INSERT INTO borrower_count (cardno, number_of_books_borrowed)
    VALUES (borrower_cardno, 1);
  END IF:
END;
DELIMITER;

▼ loan id
                                                     cardno
                                                                book id
                                                                             loan date

    Ø Edit 
    ♣ Copy 
    Opelete

                                                  2
                                                           123
                                                                       456 2023-11-13
```

