Assignment 7: Prepare a series of SQL statements to INSERT new records into the library tables, UPDATE existing records with new information, and DELETE records based on specific criteria. Include BULK INSERT operations to load data from an external source.

```
SOLUTION:
CREATE TABLE IF NOT EXISTS books (
  book id INT AUTO INCREMENT PRIMARY KEY,
  title VARCHAR(255),
  author VARCHAR(255),
  publication_year INT,
  quantity INT
);
CREATE TABLE IF NOT EXISTS members (
  member_id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(255),
  email VARCHAR(255),
  phone VARCHAR(20)
);
```

```
CREATE TABLE IF NOT EXISTS loans (
  loan id INT AUTO INCREMENT PRIMARY KEY,
  book id INT,
  member id INT,
  loan date DATE,
  return date DATE,
  FOREIGN KEY (book id) REFERENCES books (book id),
  FOREIGN KEY (member id) REFERENCES
members(member id)
);
INSERT INTO books (title, author, publication year, quantity)
VALUES
  ('To Kill a Mockingbird', 'Harper Lee', 1960, 10),
  ('1984', 'George Orwell', 1949, 8),
  ('Pride and Prejudice', 'Jane Austen', 1813, 6);
INSERT INTO members (name, email, phone)
VALUES
  ('John Doe', 'john@example.com', '123-456-7890'),
  ('Alice Smith', 'alice@example.com', '987-654-3210');
```

INSERT INTO loans (book_id, member_id, loan_date,
return_date)

VALUES

UPDATE books

SET quantity = 12

WHERE title = 'To Kill a Mockingbird';

UPDATE members

SET email = 'john.doe@example.com'

WHERE name = 'John Doe';

UPDATE loans

SET return_date = '2024-06-10'

WHERE book_id = 2 AND member_id = 2;

DELETE FROM books

WHERE title = 'Pride and Prejudice';

DELETE FROM members

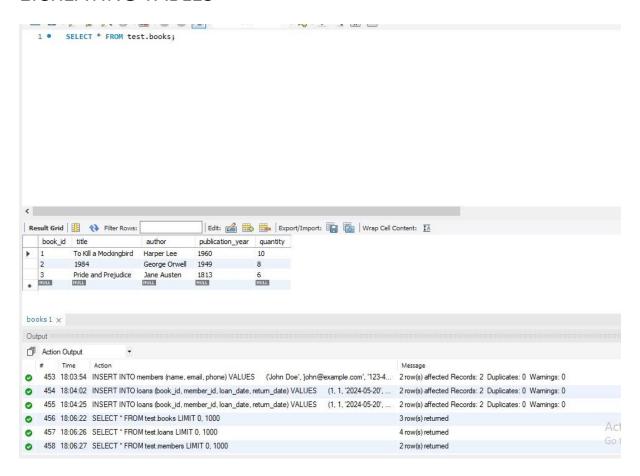
WHERE name = 'Alice Smith';

DELETE FROM loans

WHERE book_id = 2 AND member_id = 2;

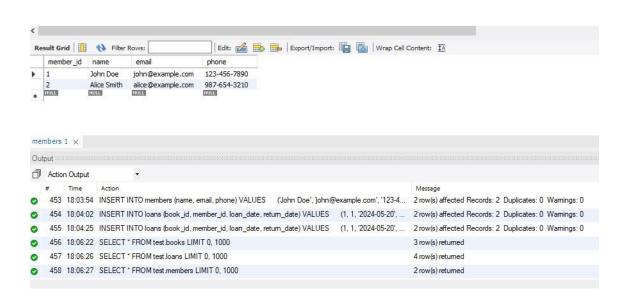
OUTPUT:

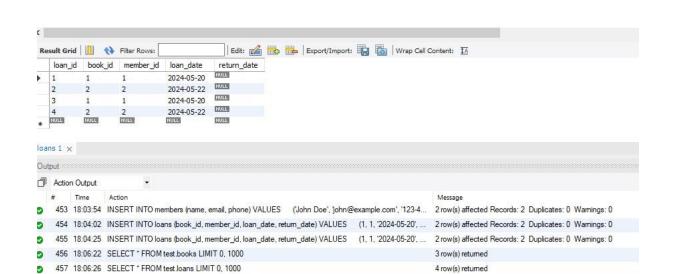
1.CREATING TABLES



1 • BELECT * FROM test.loans;

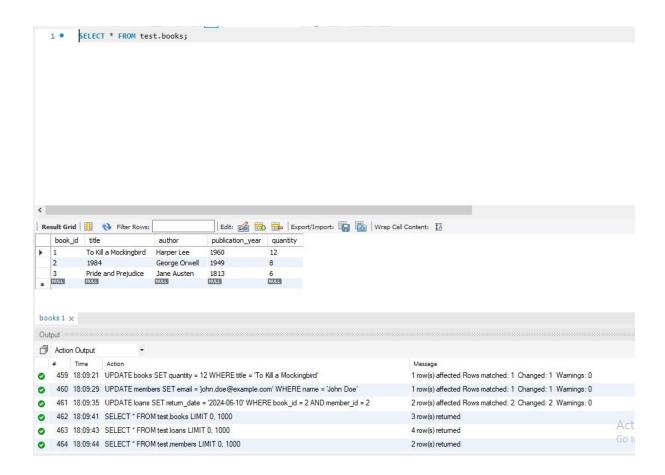
458 18:06:27 SELECT * FROM test.members LIMIT 0, 1000

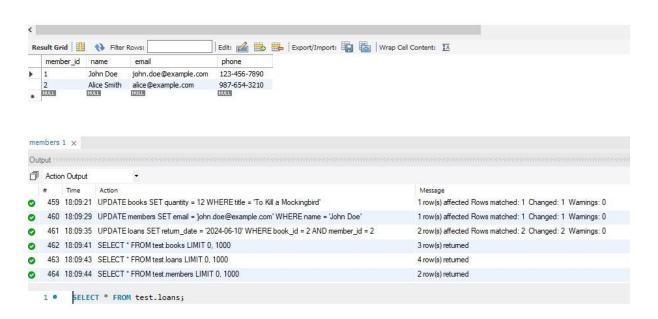


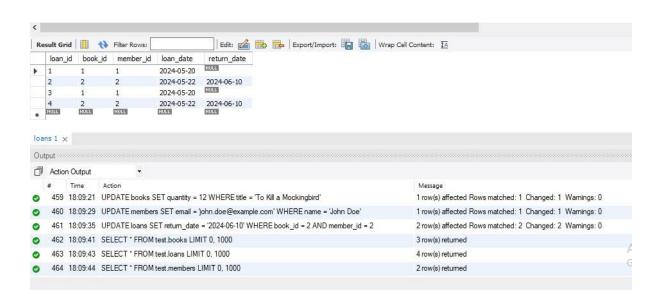


2 row(s) returned

2.UPDATE

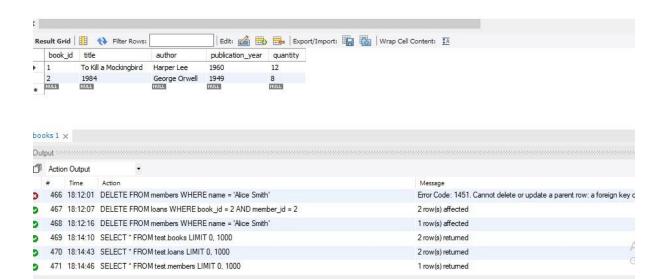


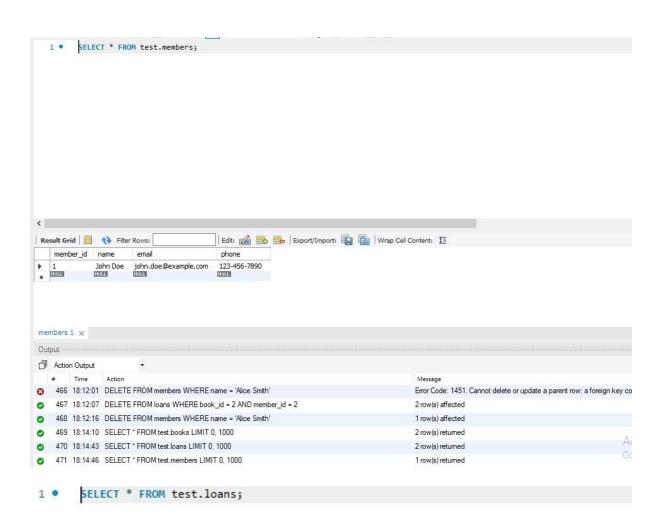


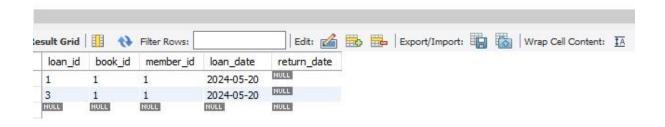


3.DELETE

1 • SELECT * FROM test.books;







```
4.BULK
CREATE TABLE sales (
  OrderID int,
  OrderDate date,
  ItemType varchar(50),
  SalesChannel varchar(50),
  UnitsSold int,
  UnitPrice float,
  DeliveryDate date,
  TotalCost float,
  TotalProfit float
);
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server
8.0/Uploads/sales.csv'
INTO TABLE sales
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 LINES;
SHOW VARIABLES LIKE 'secure_file_priv';
select * from sales;
```

```
13 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/sales.csv'
      INTO TABLE sales
 14
 15 FIELDS TERMINATED BY ','
 16 LINES TERMINATED BY '\n'
 17
         IGNORE 1 LINES;
 18 • SHOW VARIABLES LIKE 'secure_file_priv';
 19 ● select * from sales;
 20
<
Export: Wrap Cell Content: TA
  OrderID OrderDate ItemType SalesChannel UnitsSold UnitPrice DeliveryDate TotalCost TotalProfit
1 2012-03-23 Electronics Online 100 299.99 2012-03-25 25000 4999
2 2012-03-24 Furniture Offline 50 199.99 2012-03-26 9000 4995
Result 2 sales 3 ×
Output
Action Output
  # Time Action
466 18:12:01 DELETE FROM members WHERE name = 'Alice Smith'
                                                                                        Error Code: 1451. Cannot delete or update a parent row: a
467 18:12:07 DELETE FROM loans WHERE book_id = 2 AND member_id = 2
                                                                                        2 row(s) affected
468 18:12:16 DELETE FROM members WHERE name = 'Alice Smith'
                                                                                        1 row(s) affected
469 18:14:10 SELECT * FROM test books LIMIT 0, 1000
                                                                                        2 row(s) returned

    470 18:14:43 SELECT * FROM test, loans LIMIT 0, 1000

                                                                                        2 row(s) returned
```

1 row(s) returned

471 18:14:46 SELECT * FROM test.members LIMIT 0, 1000