Experiment-1

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1. Aim:

a.) Author-Book Relationship Using Joins and Basic SQL Operations.
   Patient
   - Design two tables — one for storing author details and the other for book details.
   - Ensure a foreign key relationship from the book to its respective author.
   - Insert at least three records in each table.
   - Perform an INNER JOIN to link each book with its author using the common author ID.
   - Select the book title, author name, and author's country.

Author_id	Name	country
1	Tite Kubo	Japan
2	William Shakesphere	UK
3	Eichiro Oda	Japan

book_id	Title	Author_id
1	Bleach	1
2	Othello	2
3	The One Piece	3

2. Objective:

- To understand how to use JOINS in SQL.

- To understand the basic SQL Queries.

- To learn how to create Foreign keys in SQL.

3. DBMS Script :

Query 1:

```sql
-- Create Author table
CREATE TABLE Author (
    author_id INT PRIMARY KEY,
    name VARCHAR(100),
    country VARCHAR(100)
);

-- Create Book table with a foreign key to Author
CREATE TABLE Book (
    book_id INT PRIMARY KEY,
    title VARCHAR(200),
    author_id INT,
    FOREIGN KEY (author_id) REFERENCES Author(author_id)
);
-- Insert data into Author
INSERT INTO Author (author_id, name, country) VALUES
(1, 'Tite Kubo ', Japan'),
(2, 'William Shakesphere ', 'United
kingdom'),
 (3, Eichiro Oda', 'Japan');

-- Insert data into Book
INSERT INTO Book (book_id, title, author_id) VALUES
(101, 'Bleach', 1),
(102, 'Othello', 2),
(103, One piece', 3);

-- Join the tables to get book title, author name, and country
SELECT
    Book.title AS Book_Title,
    Author.name AS Author_Name,
    Author.country AS Author_Country
FROM
    Book
INNER JOIN
    Author ON Book.author_id = Author.author_id;
```

Output :

Book_Title	Author_Name	Author_Country
Bleach	Tite Kubo	Japan
Othello	William Shakesphere	UK
The One Piece	Eichiro Oda	Japan

4. Learning Outcomes:

- You will be able to write basic SQL queries.
- You will learn to perform JOINS in SQL.
- You will understand how to implement foreign keys.