Experiment - 1

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STATEMENT:-

*Design and implement a relational database schema to represent the relationship between **authors** and the **books** they have written. This involves creating two separate tables — one for **author details** and the other for **book details** — and establishing a **foreign key relationship** from the book table to the author table.*

The goal is to:

- *Store relevant information about authors (such as name and country).*
- *Store book-related data (such as title and associated author).*
- *Use **SQL JOIN operations** to retrieve meaningful information by combining the data from both tables.*

CODE :-

```
-- Step 1: Create the Author table
CREATE TABLE Author (
    author_id INT PRIMARY KEY,
    author_name VARCHAR(100),
    country VARCHAR(50)
);
```

```
-- Step 2: Create the Book table with a foreign key reference to Author
CREATE TABLE Book (
    book_id INT PRIMARY KEY,
    title VARCHAR(150),
    author_id INT,
    FOREIGN KEY (author_id) REFERENCES Author(author_id)
);

-- Step 3: Insert dummy records into Author
INSERT INTO Author (author_id, author_name, country) VALUES
(1, 'J.K. Rowling', 'United Kingdom'),
(2, 'George R.R. Martin', 'United States'),
(3, 'Haruki Murakami', 'Japan');

-- Step 4: Insert dummy records into Book
INSERT INTO Book (book_id, title, author_id) VALUES
(101, 'Harry Potter and the Sorcerer''s Stone', 1),
(102, 'A Game of Thrones', 2),
(103, 'Kafka on the Shore', 3);

-- Step 5: Perform an INNER JOIN to get the required data
SELECT
    B.title AS book_title,
    A.author_name,
    A.country
FROM
    Book B
INNER JOIN
    Author A ON B.author_id = A.author_id;
```

Output : -

	book_title	author_name	country
1	Harry Potter and the Sorcerer's Stone	J.K. Rowling	United Kingdom
2	A Game of Thrones	George R.R. Martin	United States
3	Kafka on the Shore	Haruki Murakami	Japan