Experiment 1

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Subject Name: ADBMS Subject Code: 23CSP-333

1. Aim: To understand basic table creation, establishing foreign key relationships, performing basic INSERT operations, and using INNER JOIN in SQL to retrieve related data from multiple tables.

2. Objective:

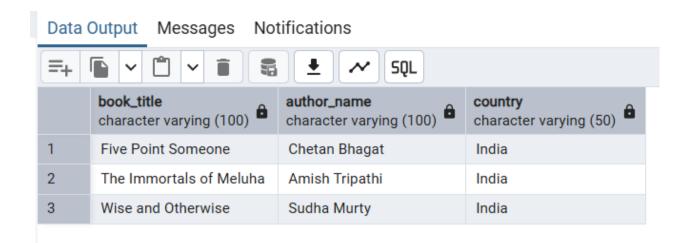
- To create two related tables: Authors and Books
- To establish a foreign key from Books to Authors
- To perform INNER JOIN for displaying book titles with their authors' names and countries.

3. DBMS Script:

```
CREATE TABLE Authors (
    AuthorID INT PRIMARY KEY,
    Name VARCHAR(100),
    Country VARCHAR (50)
);
CREATE TABLE Books (
   BookID INT PRIMARY KEY,
    Title VARCHAR (100),
   AuthorID INT,
    FOREIGN KEY (AuthorID) REFERENCES Authors (AuthorID)
);
INSERT INTO Authors VALUES (1, 'Chetan Bhagat', 'India');
INSERT INTO Authors VALUES (2, 'Amish Tripathi', 'India');
INSERT INTO Authors VALUES (3, 'Sudha Murty', 'India');
INSERT INTO Books VALUES (1, 'Five Point Someone', 1);
INSERT INTO Books VALUES (2, 'The Immortals of Meluha', 2);
INSERT INTO Books VALUES (3, 'Wise and Otherwise', 3);
SELECT B. Title AS Book Title, A. Name AS Author Name, A. Country
FROM Books B
INNER JOIN Authors A ON B.AuthorID = A.AuthorID;
```



4. Output:



5. Learning Outcomes:

- Ability to design basic tables and define primary and foreign key relationships
- Skills to insert multiple records in SQL tables
- Understanding of how INNER JOIN works to retrieve combined data from related tables
- Ability to write simple, meaningful SQL queries for real-world relationships