**Experiment 1-A**

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## Aim:

## Easy-Level Problem

**Problem Title: Author-Book Relationship Using Joins and Basic SQL Operations**

**Procedure (Step-by-Step):**

1. Design two tables — one for storing author details and the other for book details.
2. Ensure a foreign key relationship from the book to its respective author.
3. Insert at least three records in each table.
4. Perform an INNER JOIN to link each book with its author using the common author ID.
5. Select the book title, author name, and author’s country.

**Sample Output Description:**

When the join is performed, we get a list where each book title is shown along with its author’s name and their country.

**Code:**

CREATE TABLE AUTHOR(

AUTHOR\_ID INT PRIMARY KEY,

AUTHOR\_NAME VARCHAR(20),

COUNTRY VARCHAR(20)

)

CREATE TABLE BOOK (

BOOK\_ID INT PRIMARY KEY,

BOOK\_TITLE VARCHAR(20),

AUTHOR\_ID INT /\* It is not necessary to keep the column name of foreign key and primary key same.\*/

FOREIGN KEY (AUTHOR\_ID) REFERENCES AUTHOR(AUTHOR\_ID)

)

INSERT INTO AUTHOR

VALUES

(1,'A', 'INDIA'),

(2,'B', 'USA'),

(3,'C', 'INDIA'),

(4,'D', 'AUSTRALIA');

INSERT INTO BOOK

VALUES

(101,'AB', 2),

(102,'BC', 1),

(103,'CD', 3),

(104,'DE', 4);

SELECT A.AUTHOR\_NAME, A.COUNTRY , B.BOOK\_TITLE

FROM AUTHOR AS A

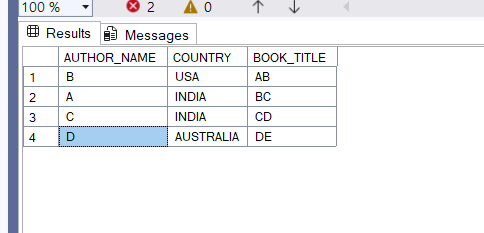
INNER JOIN

BOOK AS B

ON

A.AUTHOR\_ID = B.AUTHOR\_ID

**Output:**

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