



Experiment 1.1

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Subject Name: ADBMS

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1. Aim:

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

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.

2. Objective:

- To design and create relational tables for authors and books with a foreign key relationship.
- To insert and manage sample data records in both tables to simulate a real-world author-book relationship.
- To apply an INNER JOIN to retrieve combined data from both tables based on the common author_id.
- To display relevant information such as book title, author name, and author's country using SQL SELECT queries.

3. Code :

```
CREATE TABLE TBL_AUTHOR  
(  
  AUTHOR_ID INT PRIMARY KEY,  
  AUTHOR_NAME VARCHAR(MAX),
```



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```
COUNTRY VARCHAR(MAX)
)
```

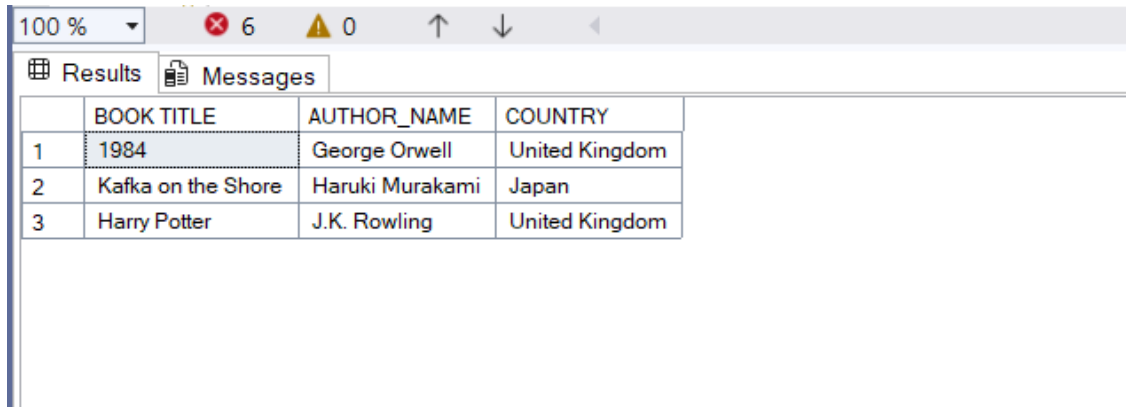
```
CREATE TABLE TBL_BOOKS
(
    BOOK_ID INT PRIMARY KEY,
    BOOK_TITLE VARCHAR(MAX),
    AUTHORID INT
    FOREIGN KEY (AUTHORID) REFERENCES TBL_AUTHOR(AUTHOR_ID)
)
```

```
INSERT INTO TBL_AUTHOR (AUTHOR_ID, AUTHOR_NAME, COUNTRY) VALUES
(1, 'George Orwell', 'United Kingdom'),
(2, 'Haruki Murakami', 'Japan'),
(3, 'J.K. Rowling', 'United Kingdom');
```

```
INSERT INTO TBL_BOOKS (BOOK_ID, BOOK_TITLE, AUTHORID) VALUES
(101, '1984', 1),
(102, 'Kafka on the Shore', 2),
(103, 'Harry Potter', 3);
```

```
SELECT B.BOOK_TITLE AS 'BOOK TITLE', A.AUTHOR_NAME, A.COUNTRY
FROM TBL_BOOKS AS B
INNER JOIN
TBL_AUTHOR AS A
ON
B.AUTHORID = A.AUTHOR_ID
```

4. Output :



	BOOK TITLE	AUTHOR_NAME	COUNTRY
1	1984	George Orwell	United Kingdom
2	Kafka on the Shore	Haruki Murakami	Japan
3	Harry Potter	J.K. Rowling	United Kingdom