Experiment 1.1

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Branch: BE-CSE | **Section/Group: KRG-3B**
Semester: 5 | **Date of performance: 25-07-2025**
Subject name: ADBMS | **Subject code: 23CSP-333**

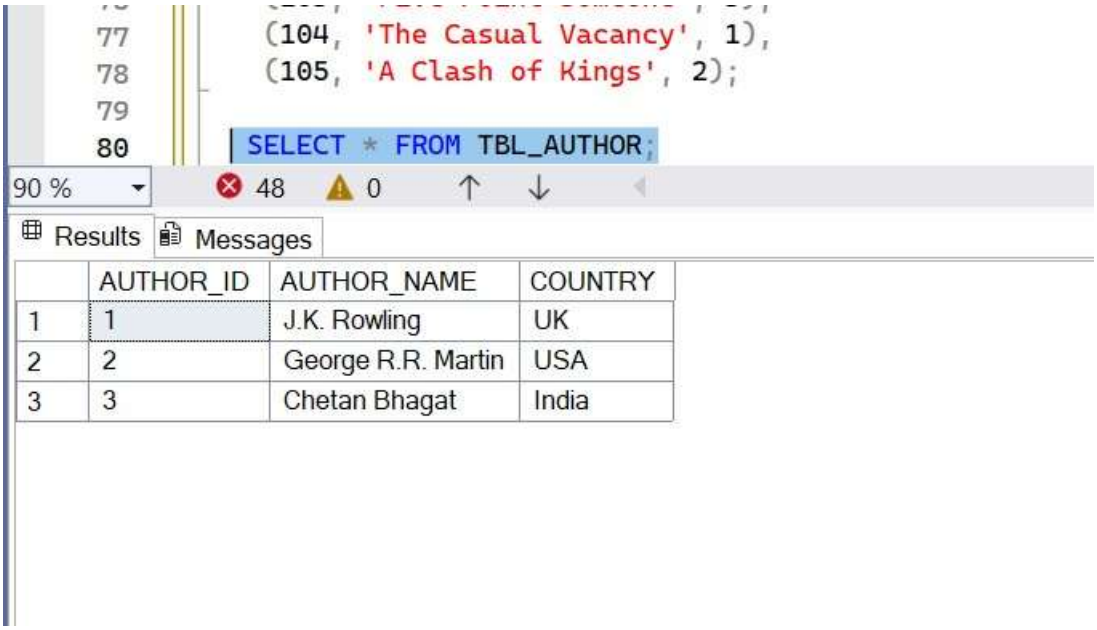
Problem Statement:

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.

Code:

```
DROP TABLE IF EXISTS TBL_EMPLOYEE;


CREATE DATABASE KRG_3B
USE KRG_3B


CREATE TABLE TBL_EMPLOYEE (
  EMP_ID INT IDENTITY(101, 2),
  EMP_NAME VARCHAR(MAX) ,
  MANAGER_ID INT
);
```

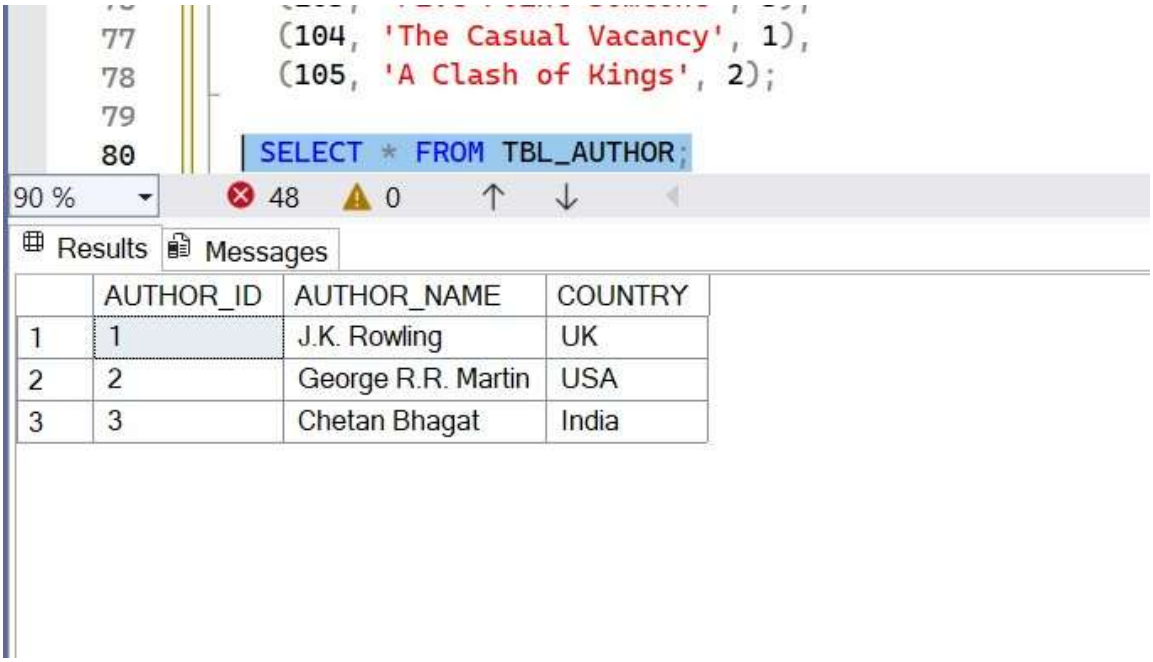
```
INSERT INTO TBL_EMPLOYEE(EMP_NAME) VALUES('Jyoti')
INSERT INTO TBL_EMPLOYEE(EMP_NAME) VALUES('ABC')

SELECT * FROM TBL_EMPLOYEE
```



	AUTHOR_ID	AUTHOR_NAME	COUNTRY
1	1	J.K. Rowling	UK
2	2	George R.R. Martin	USA
3	3	Chetan Bhagat	India

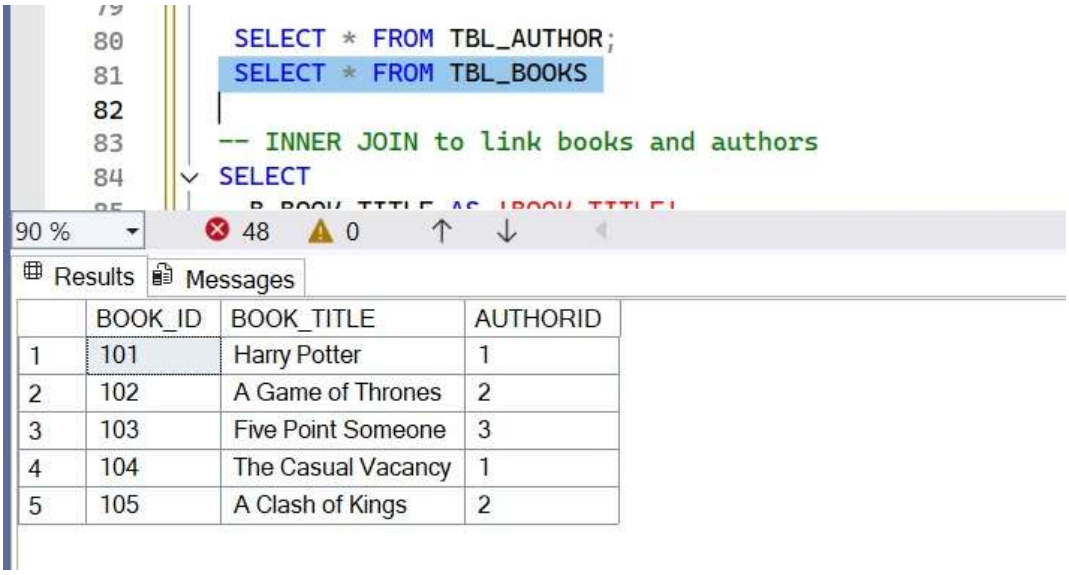
```
CREATE TABLE TBL_AUTHOR (
  AUTHOR_ID INT PRIMARY KEY,
  AUTHOR_NAME VARCHAR(MAX),
  COUNTRY VARCHAR(MAX)
)

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

```
INSERT INTO TBL_AUTHOR (AUTHOR_ID, AUTHOR_NAME, COUNTRY)
VALUES
 (1, 'J.K. Rowling', 'UK'),
 (2, 'George R.R. Martin', 'USA'),
 (3, 'Chetan Bhagat', 'India');

INSERT INTO TBL_BOOKS (BOOK_ID, BOOK_TITLE, AUTHORID)
VALUES
 (101, 'Harry Potter', 1),
 (102, 'A Game of Thrones', 2),
 (103, 'Five Point Someone', 3),
 (104, 'The Casual Vacancy', 1),
 (105, 'A Clash of Kings', 2);

SELECT * FROM TBL_AUTHOR;
```



	AUTHOR_ID	AUTHOR_NAME	COUNTRY
1	1	J.K. Rowling	UK
2	2	George R.R. Martin	USA
3	3	Chetan Bhagat	India

SELECT * FROM TBL_BOOKS;



	BOOK_ID	BOOK_TITLE	AUTHORID
1	101	Harry Potter	1
2	102	A Game of Thrones	2
3	103	Five Point Someone	3
4	104	The Casual Vacancy	1
5	105	A Clash of Kings	2

```
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
```

```
82
83    -- INNER JOIN to link books and authors
84    SELECT
85      B.BOOK_TITLE AS 'BOOK TITLE',
86      A.AUTHOR_NAME,
87      A.COUNTRY
88    FROM TBL_BOOKS AS B
89    INNER JOIN TBL_AUTHOR AS A
90    ON B.AUTHORID = A.AUTHOR_ID
91
92    -- ====================================
93    -- SELF JOIN (MANAGER-EMPLOYEE RELATIONSHIP)
```

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Results Messages

	BOOK TITLE	AUTHOR_NAME	COUNTRY
1	Harry Potter	J.K. Rowling	UK
2	A Game of Thrones	George R.R. Martin	USA
3	Five Point Someone	Chetan Bhagat	India
4	The Casual Vacancy	J.K. Rowling	UK
5	A Clash of Kings	George R.R. Martin	USA

```
SELECT
  E1.EMP_NAME AS [EMP_NAME],
  E2.EMP_NAME AS [MANAGER_NAME]
FROM TBL_EMPLOYEE AS E1
INNER JOIN TBL_EMPLOYEE AS E2
ON E1.MANAGER_ID = E2.EMP_ID
```