



University Institute of Engineering
Department of Computer Science & Engineering

Experiment:1

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Branch: Computer Science & Engineering

Section/Group: KG-3B

Semester: 5th

Subject Code: 23CSP-339

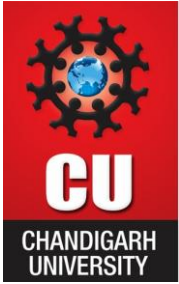
Subject Name: ADBMS

1. Aim of the practical:

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



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3. Tool Used: SQL Server Management Studio

4. Code:

```
-- Problem Title: Author-Book Relationship Using Joins and Basic SQL Operations
--/Design two tables - one for storing author details and the other for book details.
--/Ensure a foreign key relationship from the book to its respective author.Insert at
--/least three records in each table.
--/Perform an INNER JOIN to link each book with its author using the common author ID.
--/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
--/s author's name and their country.
```

```
-- Create table for authors
CREATE TABLE AuthorDetails (
    auth_id INT PRIMARY KEY,
    auth_name VARCHAR(100),
    auth_country VARCHAR(100)
);
```

```
-- Create table for books
CREATE TABLE BookDetails (
    bk_id INT PRIMARY KEY,
    bk_title VARCHAR(150),
    auth_id INT,
    FOREIGN KEY (auth_id) REFERENCES AuthorDetails(auth_id)
);
```

```
-- Insert records into AuthorDetails
INSERT INTO AuthorDetails (auth_id, auth_name, auth_country) VALUES
(10, 'John Smith', 'UK'),
(11, 'Emily Brown', 'USA'),
(12, 'Raj Mehta', 'India');
```

```
-- Insert records into BookDetails
INSERT INTO BookDetails (bk_id, bk_title, auth_id) VALUES
(201, 'Ocean Tales', 10),
(202, 'Sky Adventures', 11),
(203, 'Desert Secrets', 12);
```

```
-- Perform INNER JOIN to display required data
SELECT
    BD.bk_title AS Book_Title,
    AD.auth_name AS Author_Name,
    AD.auth_country AS Author_Country
FROM
    BookDetails BD
INNER JOIN
    AuthorDetails AD ON BD.auth_id = AD.auth_id;
```