EXPERIMENT-1

AIM-

Create Authors and Books using DDL Commands Insert Sample Records into Authors and Books Tables retrieve Book Titles along Author Information using Inner Join.

OBJECTIVE:

- 1. Create 'Authors' and 'Books' tables with proper primary and foreign key constraints.
- 2. Insert at least 3 records into each table.
- 3. Retrieve book titles with corresponding author names and countries using INNER JOIN.

THEORY:

The uses SQL to build a relational database with two tables: 'Authors' and 'Books'. Each book references one author using a foreign key. INNER JOIN is used to combine rows from both tables where there is a match on author_id, allowing retrieval of combined data like book title, author name, and country.

ALGORITHM:

- 1. Start
- 2. Create the Authors table with:
 - author_id as primary key
 - o name and country fields
- 3. Create the Books table with:
 - book_id as primary key
 - title and author_id
 - Add a foreign key on author_id referencing Authors(author_id)
- 4. Insert sample data (at least 3 records) into both tables.
- 5. Write an **INNER JOIN** query to retrieve title, name, and country where Books.author_id = Authors.author_id.
- 6. Display the output.
- 7. **End**

QUERY:

-- Create Tables

CREATE TABLE Authors(author_id INT PRIMARY KEY, name VARCHAR(50), country VARCHAR(50));

CREATE TABLE Books(book_id INT PRIMARY KEY, title VARCHAR(100), author_id INT, FOREIGN KEY(author_id) REFERENCES Authors(author_id));

-- Insert Data

INSERT INTO Authors(author_id, name, country) VALUES (1, 'Ashish', 'India'), (2, 'Smaran', 'USA'), (3, 'Vaibhav', 'UK');

INSERT INTO Books(book_id, title, author_id) VALUES (101, 'Data Science Basics', 1), (102, 'ML

Fundamentals', 2), (103, 'AI Intro', 3)

;-- Retrieve Data using INNER JOIN

SELECT Books.title, Authors.name, Authors.country FROM Books INNER JOIN Authors ON Books.author_id = Authors.author_id;

OUTPUT:





