PARIJAT PAL | 23BCC70037 | 23BCC1-A |ADBMS

EXPERIMENT 1.3

Title: Retrieve Book Titles Along with Author Information Using INNER JOIN

Description:

Given two tables, Authors and Books, retrieve the titles of all books along with their **author's name and country.** This involves creating tables, inserting data, and using an INNER JOIN to combine records based on author_id.

Input Format:

- Pre-existing Authors and Books table structures from Problem 1.

Table **Authors** with columns:

- **author_id** (INT, Primary Key)
- **name** (VARCHAR(50))
- **country** (VARCHAR(50))

Table **Books** with columns:

- **book_id** (INT, Primary Key)
- **title** (VARCHAR(100))
- **author_id** (INT, Foreign Key referencing Authors)

Output Format:

- A list of books with their **title, name** of the author, and **country** of the author.

Constraints:

- Each book must be linked to one valid author.
- Each author can be linked to one or more books.
- No NULLs are allowed in the author_id field of the Books table.
- Use the same data as shown in the sample table.

Sample Input:

Authors
Table

author_id	name	country
1	Ashish	India

author_id	name	country
2	Smaran	USA
3	Vaibhav	UK

Books
Table

book_id	title	author_id
101	Data Science Basics	1
102	AI in Education	2
103	SQL Simplified	1

Sample Output

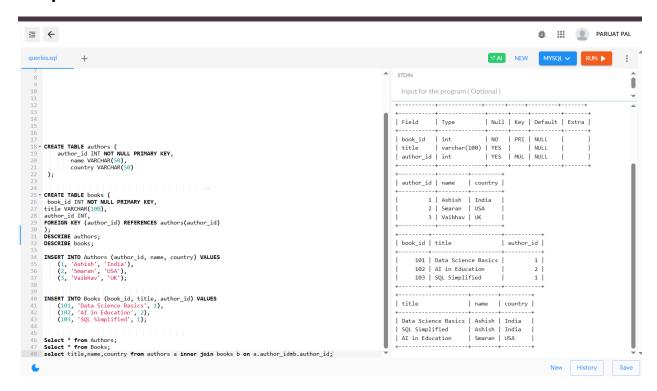| title	name	country
Data Science Basics	Ashish	India
AI in Education	Smaran	USA
SQL Simplified	Ashish	India

Explanation:

- The INNER JOIN links each book's author_id to the Authors table.
- The result shows the book title along with the author's name and country.
- For example, "SQL Simplified" is written by Ashish from India.

Query:

select title,name,country from authors a inner join books b on a.author_id=b.author_id;

Output:

Learning Outcome:

Learned about Joins.

Learned about how to implement inner joins.