

Practical 1(Question 3)

Aim

To combine data from the Authors and Books tables and retrieve specific information using an INNER JOIN query.

Objective

- To combine the data from the Authors and Books tables based on their common column (author_id).
- To select and display the title of each book along with the name and country of its author.

Theory

A **JOIN** clause is used to combine rows from two or more tables based on a related column between them. An **INNER JOIN** specifically returns only the records that have matching values in both tables. This is the most common type of join. By joining the Books table with the Authors table on the author_id column, we can effectively link each book record to its corresponding author record and retrieve information from both tables in a single result set.

Procedure

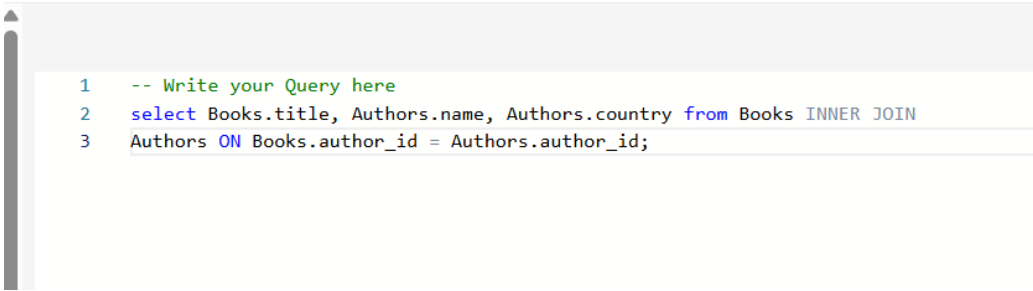
1. **Ensure** that both the Authors and Books tables exist and contain the sample data from the previous steps.
2. **Execute** the following SQL query using the INNER JOIN clause:

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

3. **Analyze** the output to confirm that it shows the book titles correctly paired with

the author's name and country.

Result



```
1  -- Write your Query here
2  select Books.title, Authors.name, Authors.country from Books INNER JOIN
3  Authors ON Books.author_id = Authors.author_id;
```

Learning Outcomes

1. **Multi-Table Queries:** The ability to retrieve and combine data from multiple tables using JOIN operations.
2. **INNER JOIN:** A practical understanding of how INNER JOIN works to find matching records between tables.
3. **Data Retrieval:** Proficiency in writing complex SELECT queries to extract specific information from a relational database.