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

EXPERIMENT 1.1

Title: Create Author and Book Tables using DDL Commands

Description:

Problem Statement

You are tasked with designing a basic book management system. Create two tables — **Authors** and **Books** — to represent a one-to-many relationship (one author can write multiple books). Use proper **primary and foreign key constraints** while designing the schema.

Input Format:

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:

- Authors and Books tables created. Print description of the table.

Constraints:

- The **author_id** in **Books** must exist in the **Authors** table.
- Use appropriate data types and constraints.
- **name** and **country** should allow up to 50 characters.

Sample Input:
Write query to create tables for Authors and Books

Sample Output:

```
authors
```
Table:

Field	Type	Null	Key	Default	Extra
author_id	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
country	varchar(50)	YES		NULL	

books
Table:

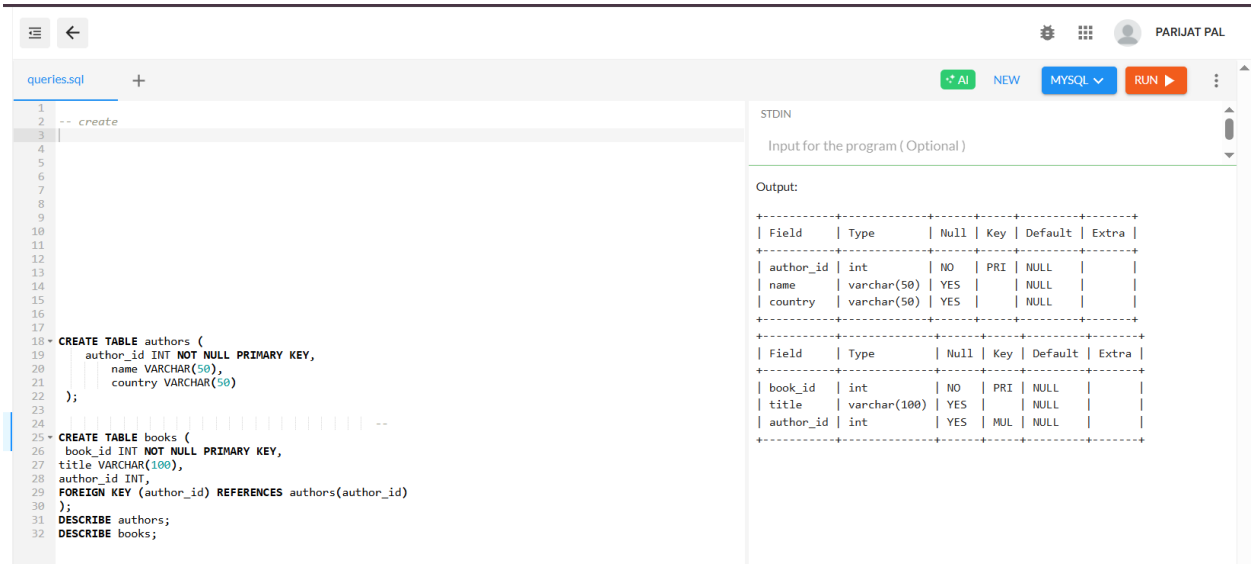
Field	Type	Null	Key	Default	Extra
book_id	int	NO	PRI	NULL	
title	varchar(100)	YES		NULL	
author_id	int	YES	MUL	NULL	

Query:

```
CREATE TABLE authors (
   author_id INT NOT NULL PRIMARY KEY,
      name VARCHAR(50),
      country VARCHAR(50)
 );


                                --
CREATE TABLE books (
 book_id INT NOT NULL PRIMARY KEY,
title VARCHAR(100),
author_id INT,
FOREIGN KEY (author_id) REFERENCES authors(author_id)
);
DESCRIBE authors;
DESCRIBE books;
```

Output:



Learning Outcome:

Learned how to create a tables.

Learned how to insert data into the tables.