



VINAYAK SAHU

1.3hr

## Create Author and Book Tables using DDL Commands

Score: 5 | Difficulty: easy

1

2

3

### 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.

SQL

```
1 -- Write your Query here
2 CREATE TABLE Authors(author_id INT PRIMARY KEY, name VARCHAR(50), country VARCHAR(50));
3 CREATE TABLE Books(book_id INT PRIMARY KEY, title VARCHAR(100), author_id INT, FOREIGN KEY(author_id) REFERENCES Authors
4 desc Authors;
5 desc Books;
```

Test &amp; Results

Submit

Custom Input

Custom Input

Test Cases

Run Code

Output:

```
+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| author_id  | int           | NO   | PRI | NULL    |      |
| name       | varchar(50)   | YES  |     | NULL    |      |
| country    | varchar(50)   | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| book_id    | int           | NO   | PRI | NULL    |      |
| title      | varchar(100)  | YES  |     | NULL    |      |
| author_id  | int           | YES  | MUL | NULL    |      |
+-----+-----+-----+-----+-----+
```

135 ms

1.3hr

## Insert Sample Records into Author and Book Tables

Score: 5 | Difficulty: easy

1

### Problem Statement

2

After creating the Authors and Books tables, your next task is to insert sample records. Insert **at least 3 authors and 3 books**, ensuring books reference valid authors using the foreign key.

3

### Input Format:

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

### Output Format:

Authors Table:

author_id	name	country
1	Ashish	India
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

### Constraints:

- Insert meaningful names and countries (e.g., Ashish, Smaran, Vaibhav).
- Insert book titles that are easy to associate with those authors.
- Use valid foreign keys.

### Sample Input:

Input tables Authors and Books

### Sample Output:

```

1  -- Write your Query here
2  insert into Authors(author_id, name, country)
3  values
4  (1, 'Ashish', 'India'),
5  (2, 'Smaran', 'USA'),
6  (3, 'Vaibhav', 'UK');
7
8  insert into Books(book_id, title, author_id)
9  values
10 (101, 'Data Science Basics', 1),
11 (102, 'AI in Education', 2),
12 (103, 'SQL Simplified', 1);
13
14 select * from Authors;
15 select * from Books;
16

```

Test &amp; Results

Submit

Custom Input

Custom Input

Test Cases

Run Code

Output:

```

+-----+-----+-----+
| author_id | name | country |
+-----+-----+-----+
| 1 | Ashish | India |
| 2 | Smaran | USA |
| 3 | Vaibhav | UK |
+-----+-----+-----+
+-----+-----+-----+
| book_id | title | author_id |
+-----+-----+-----+
| 101 | Data Science Basics | 1 |
| 102 | AI in Education | 2 |
| 103 | SQL Simplified | 1 |
+-----+-----+-----+

```

154 ms



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1.3hr

## Retrieve Book Titles Along with Author Information Using INNER JOIN

Score: 5 | Difficulty: easy

1

2

3

### Problem Statement

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)

SQL

```
1  -- Write your Query here
2
3  select Books.title, Authors.name, Authors.country from Books INNER JOIN
4  Authors ON Books.author_id = Authors.author_id;
5
6
```

Test &amp; Results

Submit

Custom Input

Custom Input

Test Cases

Run Code

Output:

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

154 ms