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Date: 24.07.2024

## Task 1:

• Create Book as table with columns BookID, BookName, AuthorName, ISBN

• BookID should be the primary key.

## Query:

```
CREATE TABLE Book (
BookId INT PRIMARY KEY IDENTITY(1,1),
BookName NVARCHAR(100) NOT NULL,
AuthorName NVARCHAR(100) NOT NULL,
ISBN NVARCHAR(100) NOT NULL
);
```

### Result:

<b>   </b>	Results 🖺	Messages		
	Bookld	BookName	AuthorName	ISBN
1	1	Moby Dick	Herman Melville	9781503280786
2	2	War and Peace	Leo Tolstoy	9780199232765
3	3	The Catcher in the Rye	J.D. Salinger	9780316769488
4	4	The Hobbit	J.R.R. Tolkien	9780547928227
5	5	Jane Eyre	Charlotte Brontë	9780142437209
6	6	The Alchemist	Paulo Coelho	9780061122415

- Alter Type from NVARCHAR(100) to NVARCHAR(50)
- Alter Type from NVARCHAR(100) to NVARCHAR(150)

## Query:

```
ALTER TABLE Book ALTER COLUMN BookName NVARCHAR(50);

ALTER TABLE Book ALTER COLUMN AuthorName NVARCHAR(150);
```

#### Task 2:

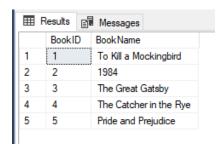
 Create Books Table with Bookid, book name, Authors table with author id, author name.

# Query:

```
CREATE TABLE Books (
BookID INT PRIMARY KEY IDENTITY(1,1),
BookName NVARCHAR(max) NOT NULL
);

CREATE TABLE Author (
AuthorID INT PRIMARY KEY IDENTITY(1,1),
AuthorName NVARCHAR(max) NOT NULL
);
```

#### Result:



Ⅲ Results			Messages
	Author	·ID	AuthorName
1	1		Harper Lee
2	2		George Orwell
3	3		F. Scott Fitzgerald
4	4		J.D. Salinger
5	5		Jane Austen

• Create a Junction table for Books and Authors.

# Query:

```
-- junction table using books and authors table

CREATE TABLE BooksAuthors (
BookID INT NOT NULL,

AuthorID INT NOT NULL,

PRIMARY KEY (BookID, AuthorID),

FOREIGN KEY (BookID) REFERENCES Books(BookID),

FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID)

);
```

## Result:

	BookID	AuthorID
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5