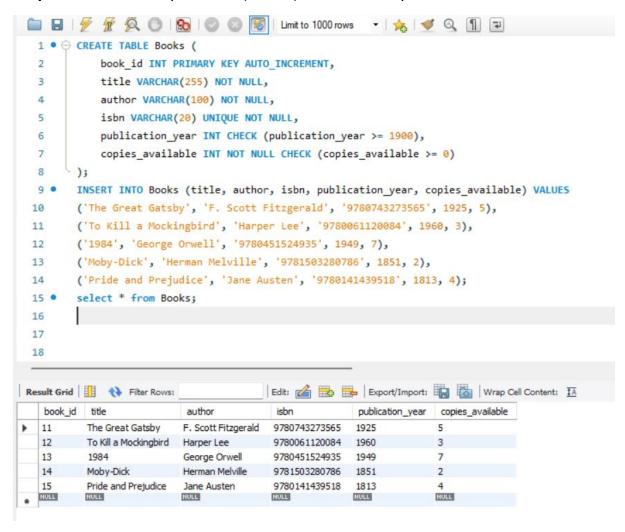
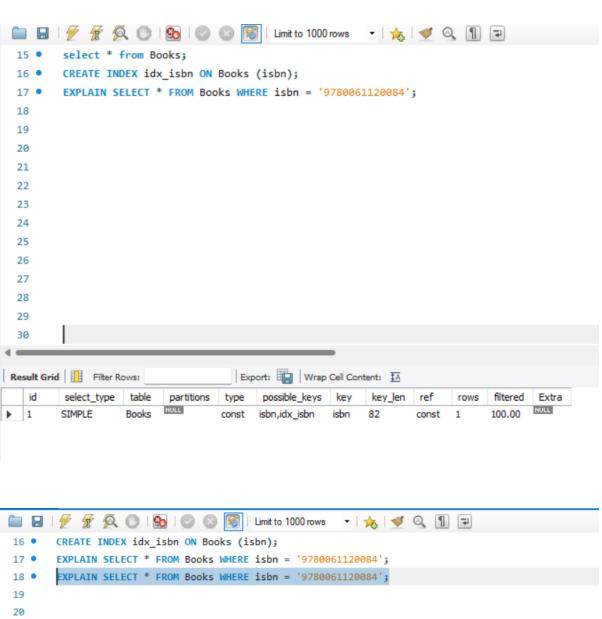
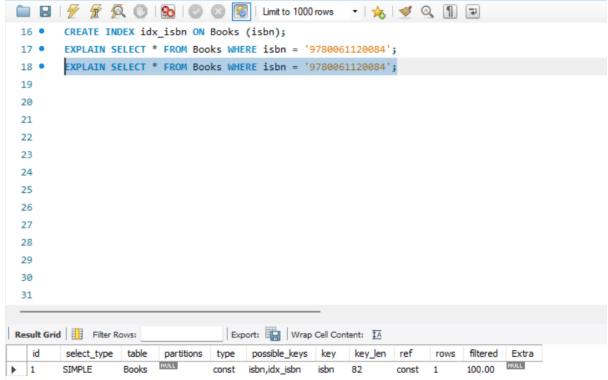
**Assignment 5:** Demonstrate the creation of an index on a table and discuss how it improves query performance. Use a DROP INDEX statement to remove the index and analyze the impact on query execution.

**Step 1:** Create a Sample Table (Books) & Insert Sample Data.

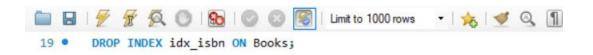


**Step 2 :** Create an Index on isbn & Compare Query Performance with and Without Index.





**Step 3**: Drop the Index and Analyze the Impact.



## Impact of Dropping the Index:

- Query performance slows down as the database reverts to full table scans.
- Index removal frees up storage space but at the cost of efficiency.