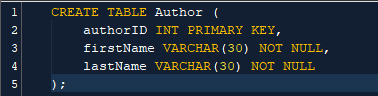
Jefferson Bui

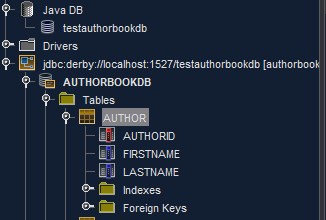
CMPSC 221

2020/02/25

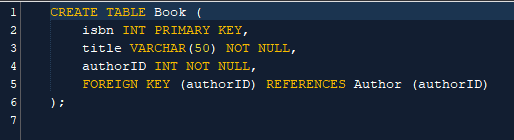
Assignment 2

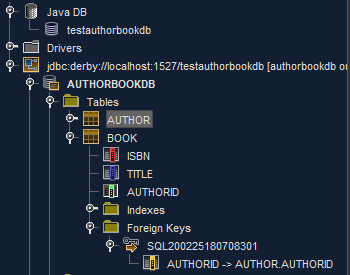
**Part 1:**





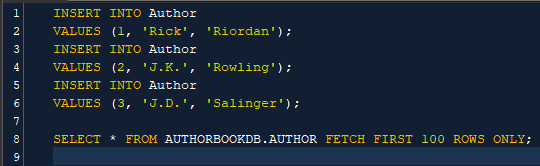
Wrote SQL code to create Author table in dummy database testauthorbookdb.

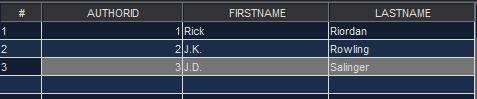




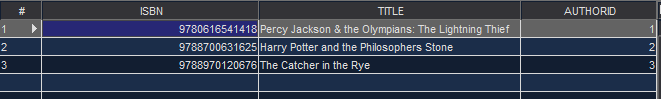
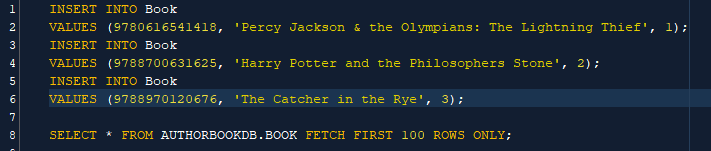
Wrote SQL code to create Book table in dummy database testauthorbookdb.

**Part 2:**



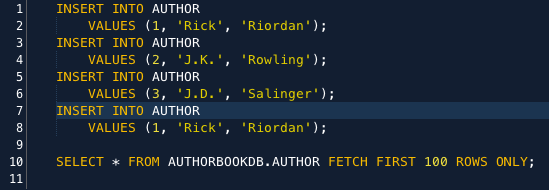


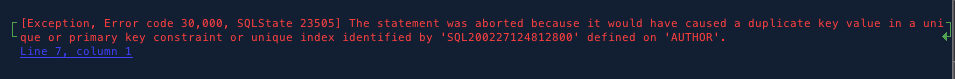
Inserted 3 different authors into Author table.



Inserted 3 books into Book table related to those Authors.

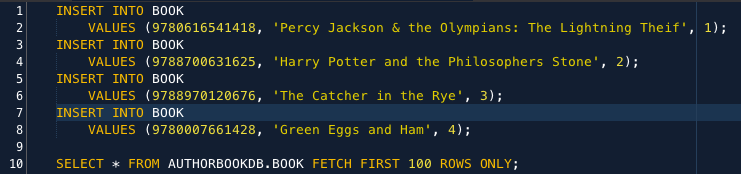
**Part 3:**

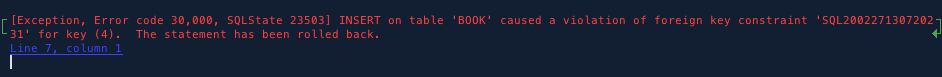




Added existing author into data base and returned primary key violation.

**Part 4:**





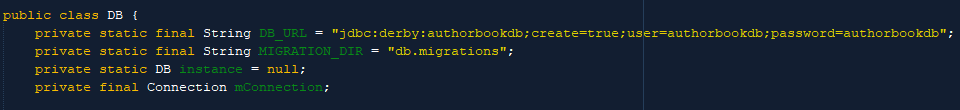
Added new book in Book table without an existing author in Author table and returned foreign key violation.

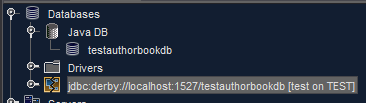
**Part 5:**

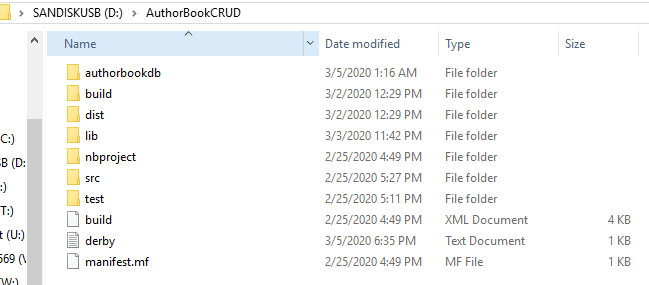


Gave meaningful names to SQL files and placed them under db.migrations package.

**Part 6:**

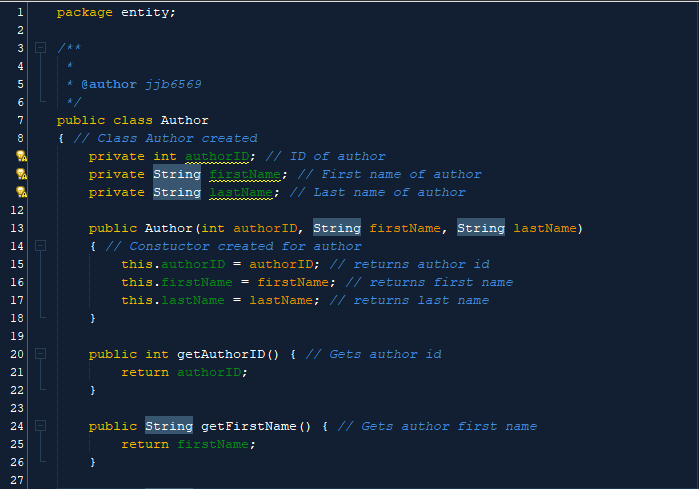


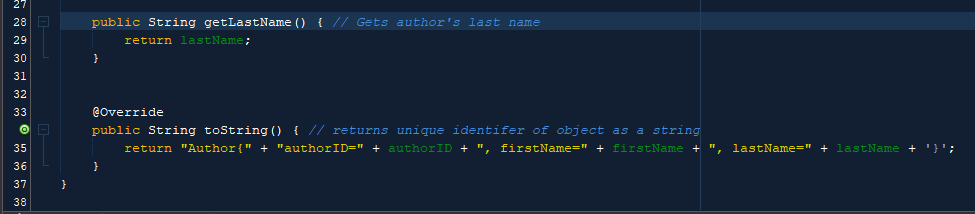




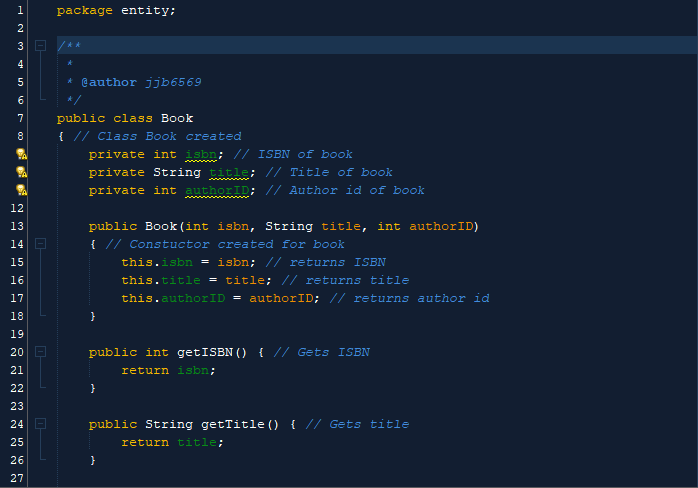
Named database as authorbookdb. Database is not in Java DB because flyway instead creates the database in the project file.

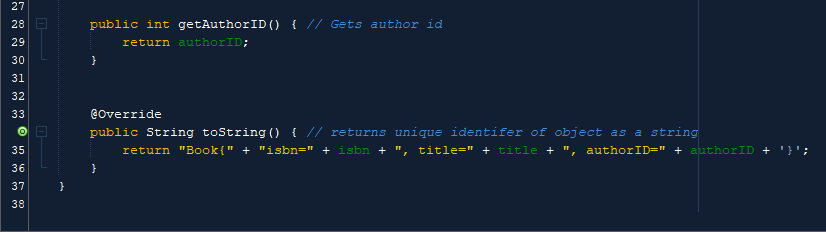
**Part 7:**





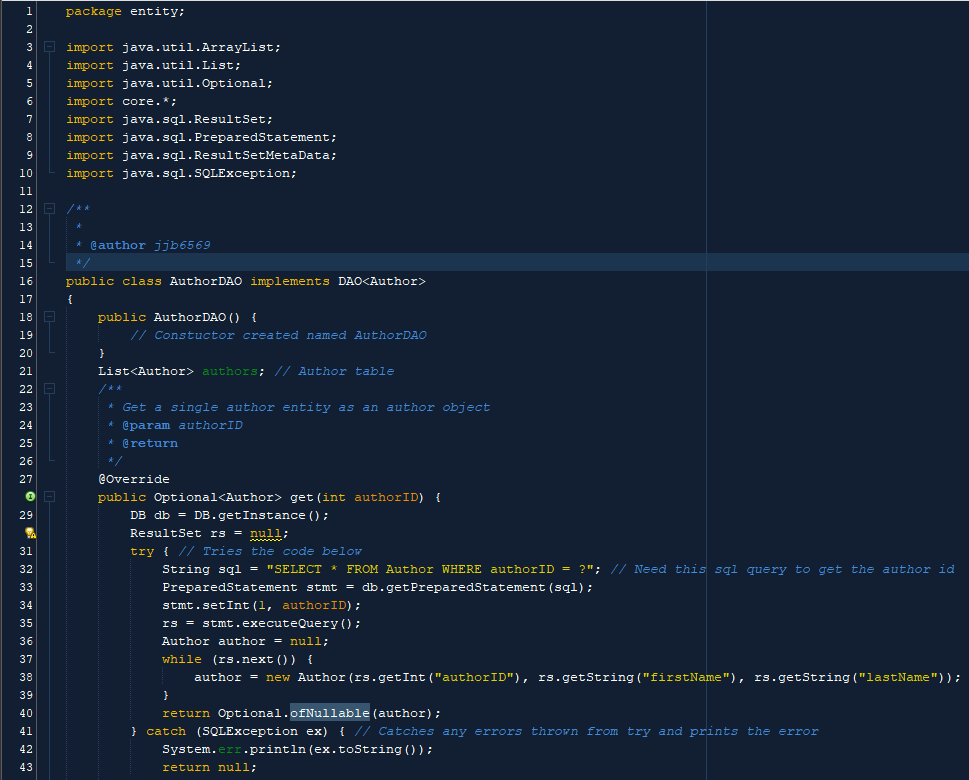
Modified class in entity for Author.java.

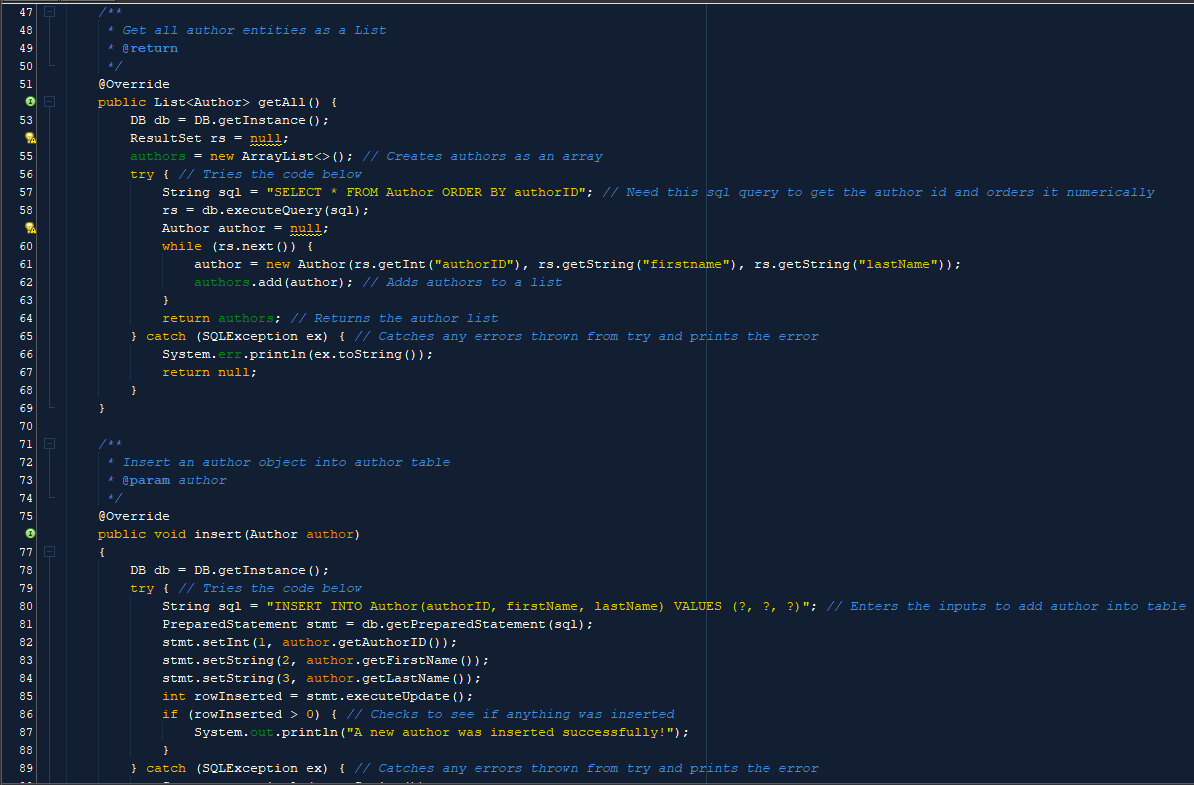


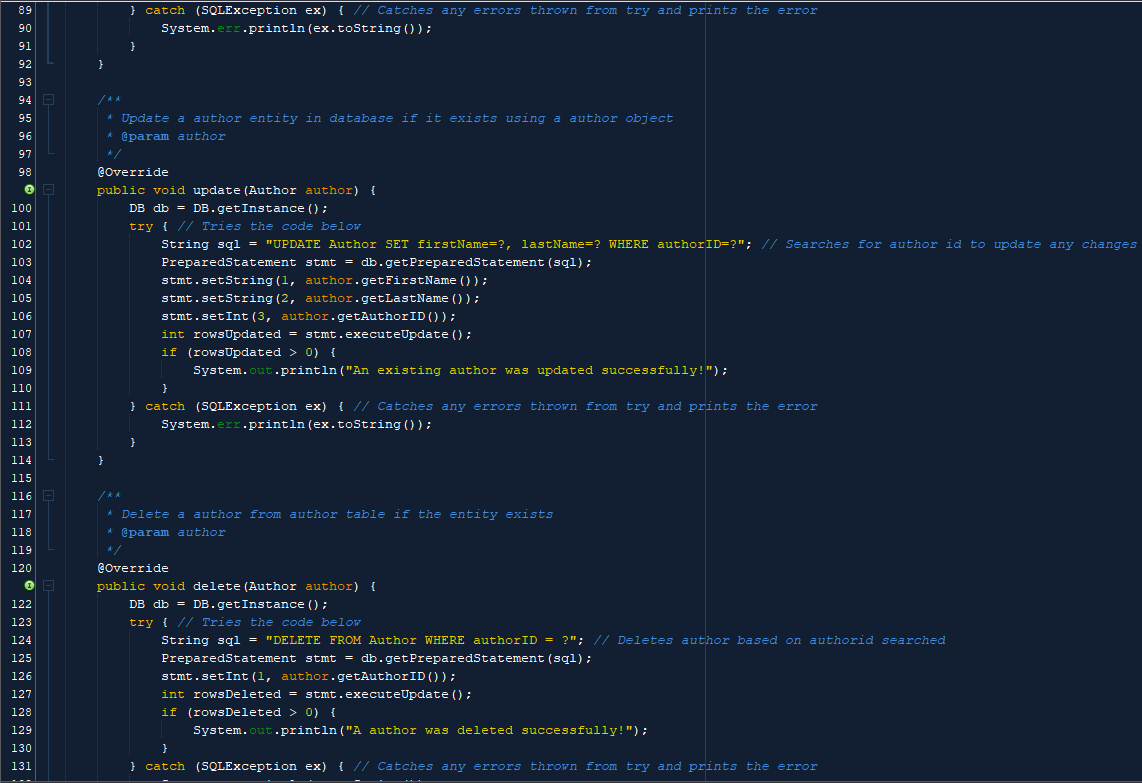


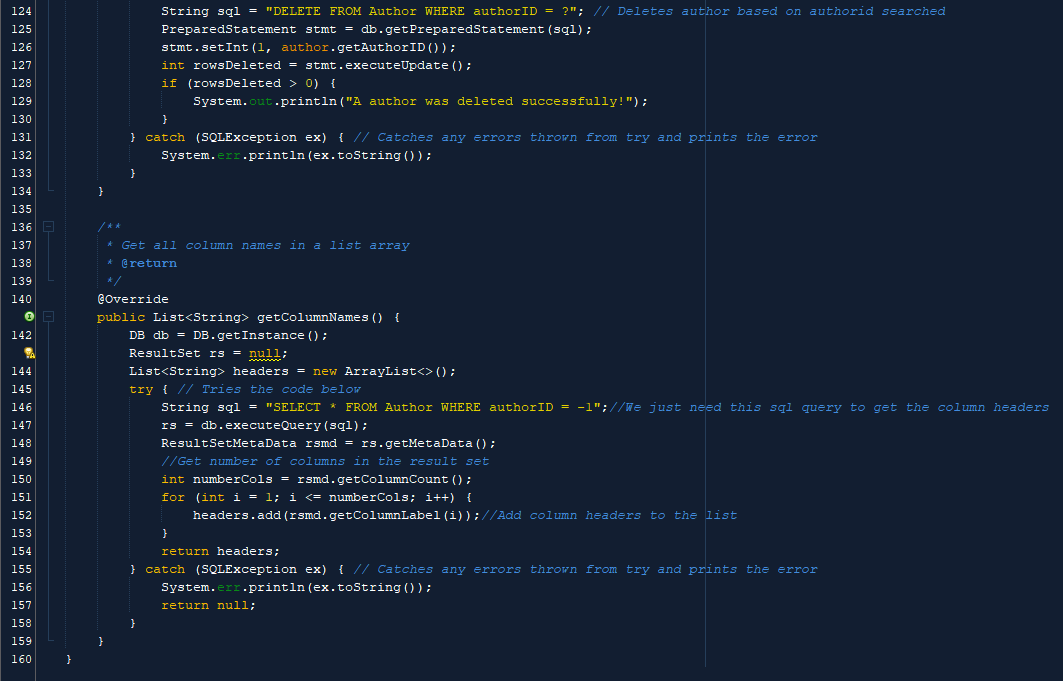
Modified class in entity for Book.java.

**Part 8:**

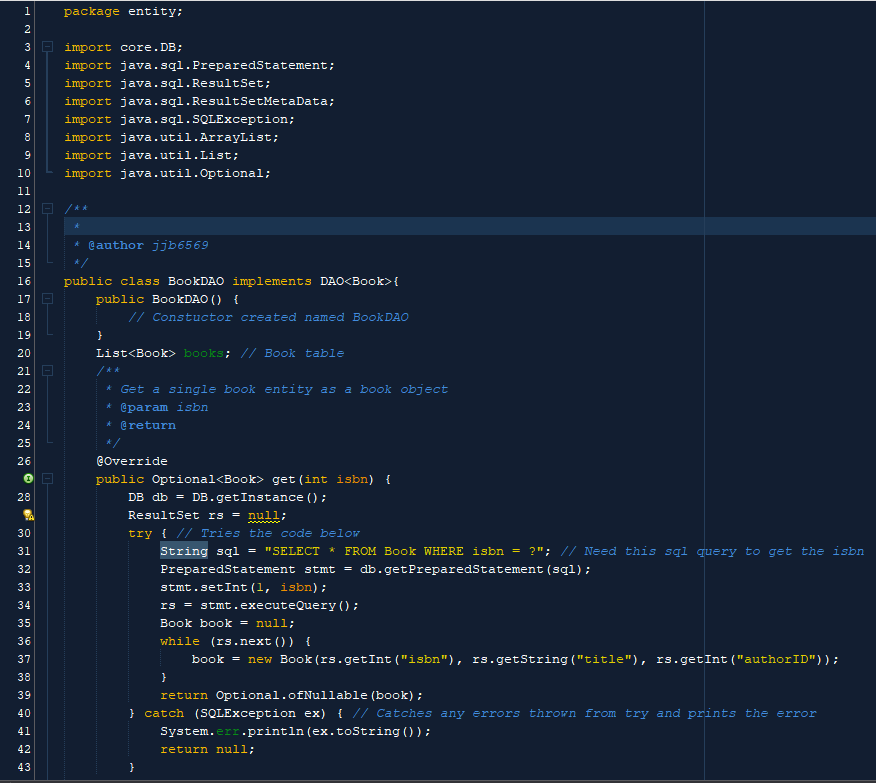


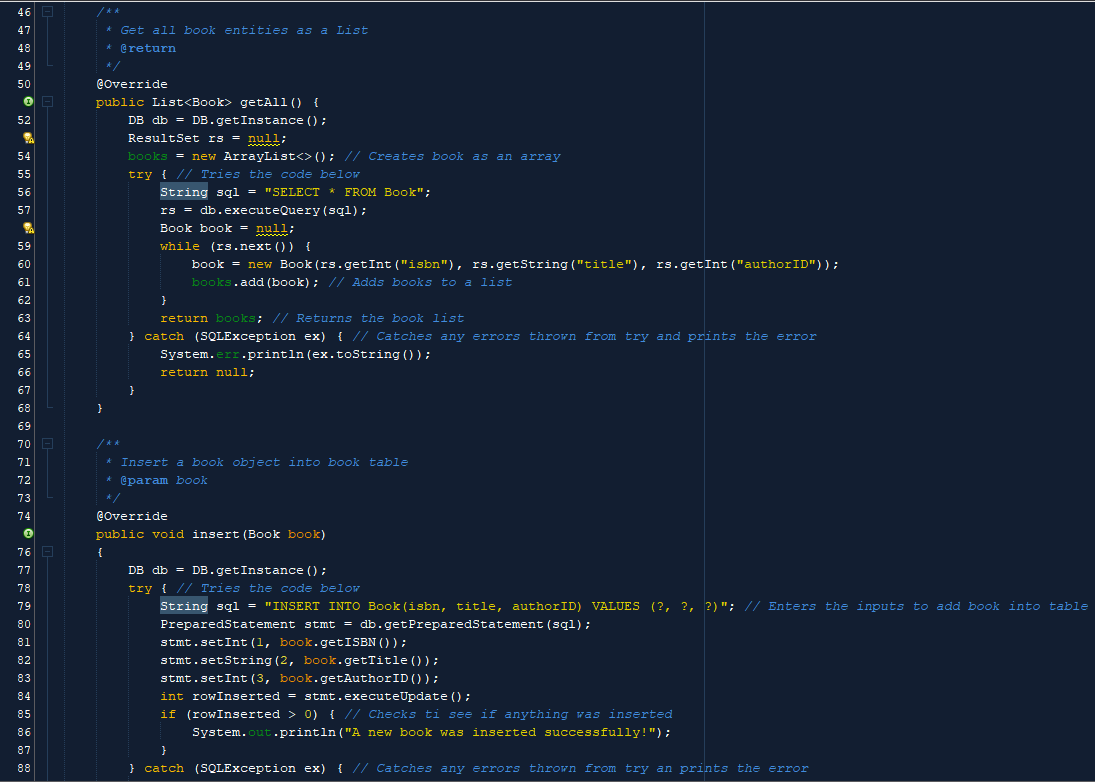


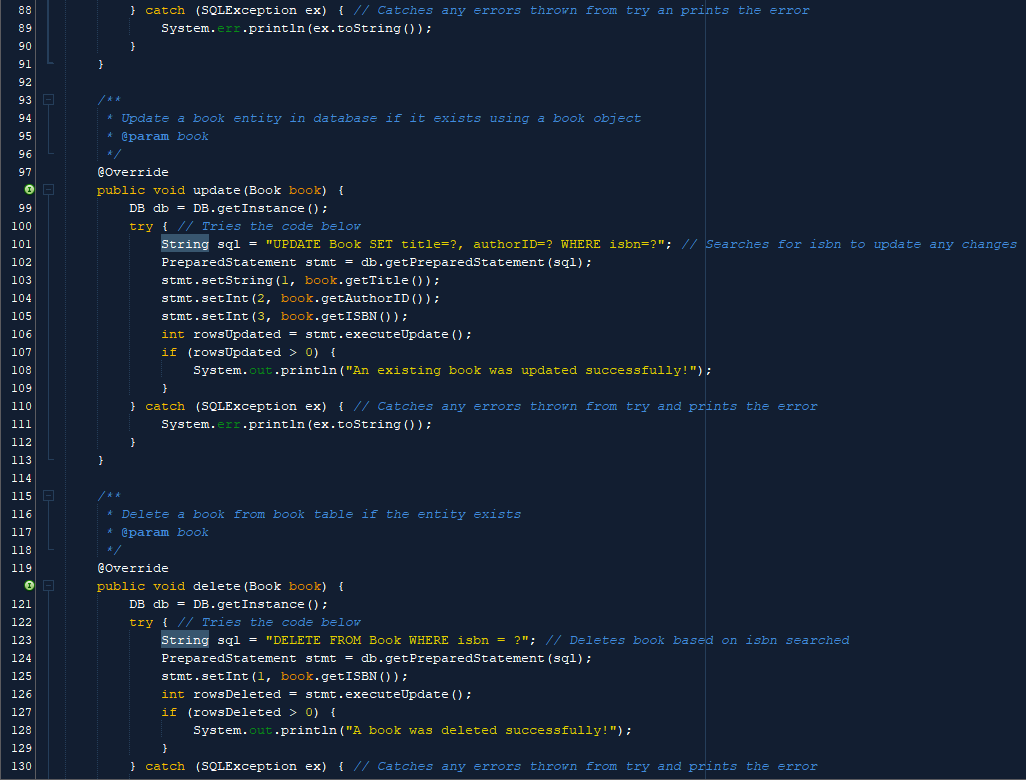


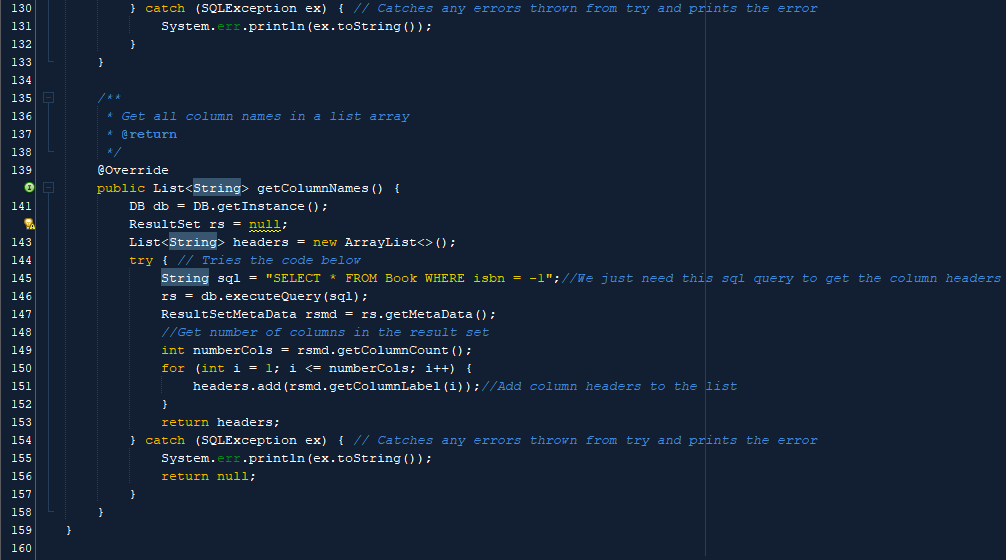


Modified entityDAO class for Author.

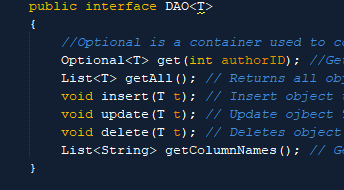






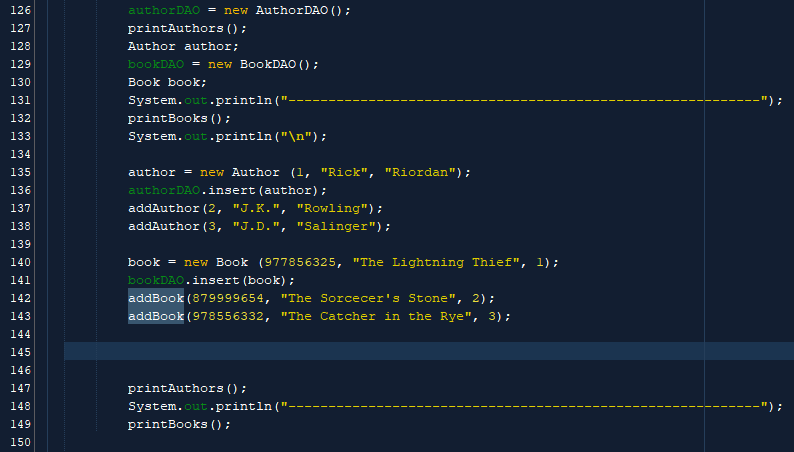


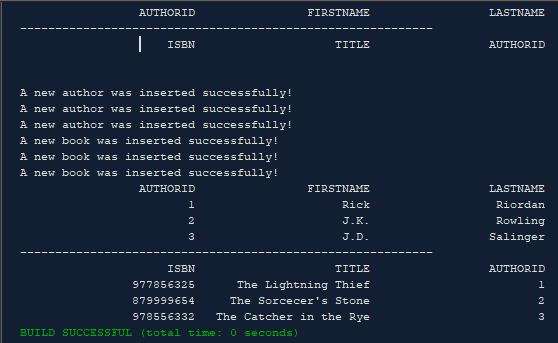
Modified entityDAO class for Book.



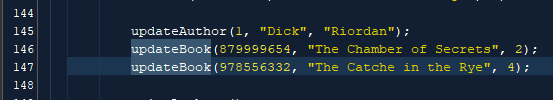
Only change done to DAO class was the variable name from id to authorID.

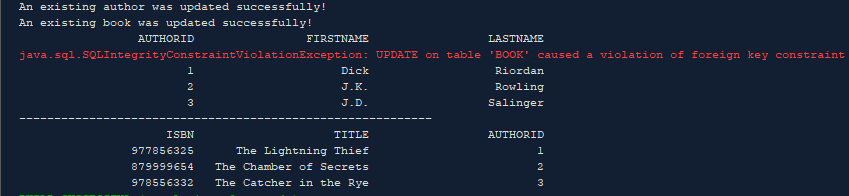
**Part 9:**





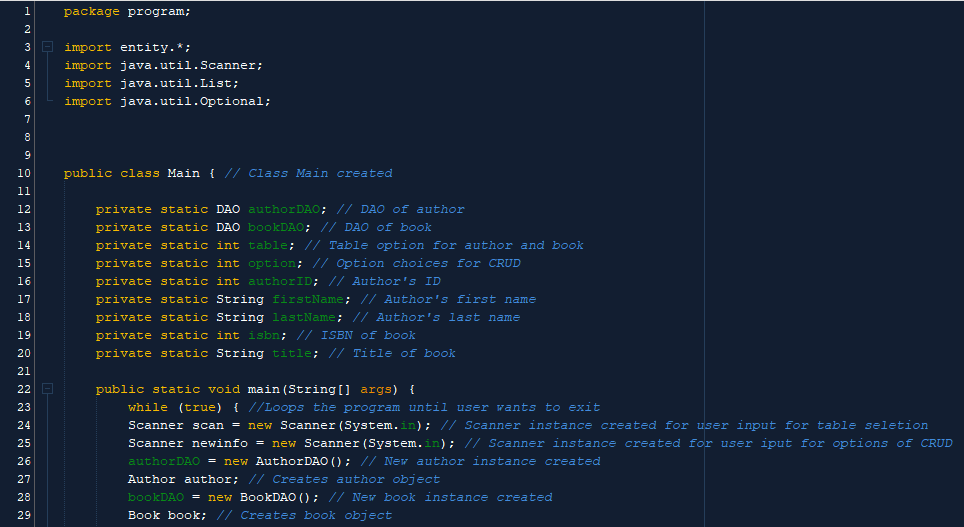
Added 3 authors and books into the database and ran code.

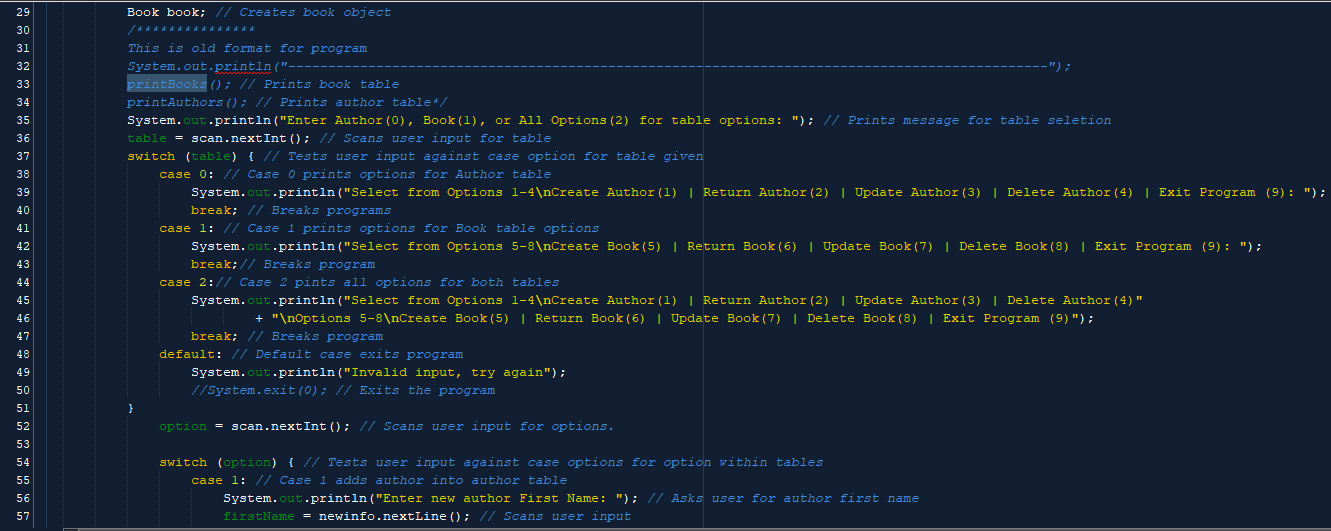


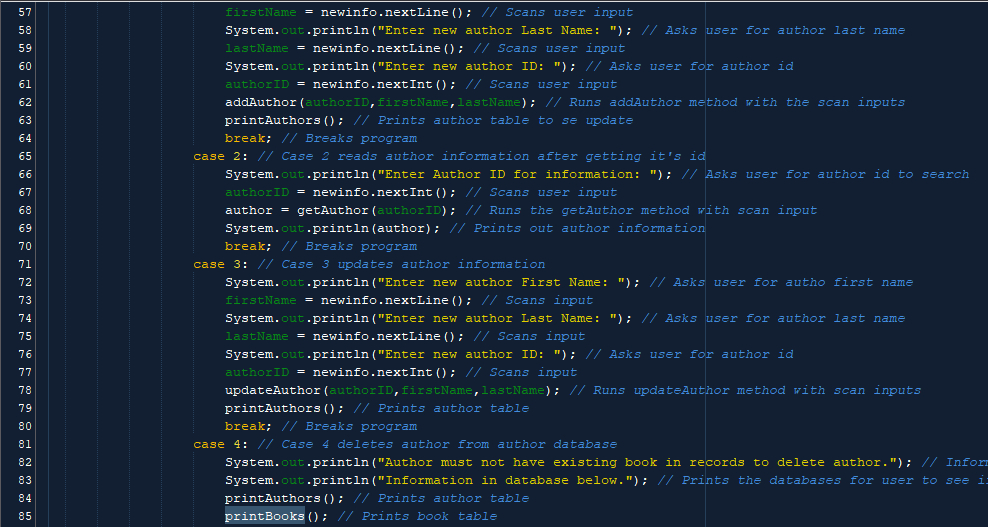


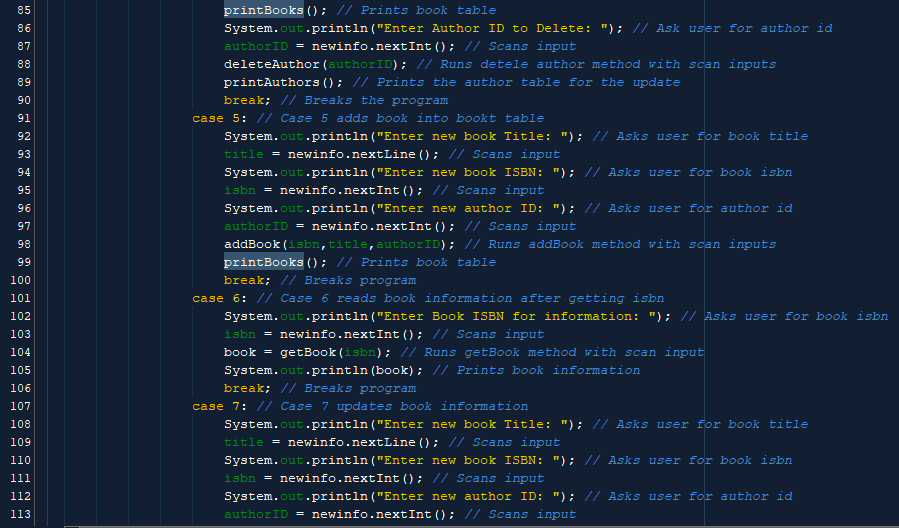
Updated one author’s first name and book’s title. Also updated a book to a non-existing author in author database foreign key violation.

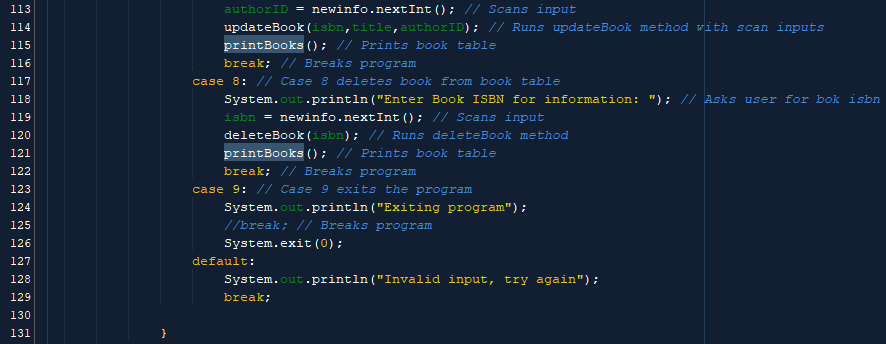
**Part 10:**











Created interface for CRUD for user input with all options to modify database.