SPSE Jecna Test Case

Test Case ID: TC_01	Test Designed by: Milana Poljanskova
Test Name: Application launch and database setup	
Brief description: Verify that the Library Database Application launches correctly and imports initial database structure and test data.	
Pre-conditions: Python 3.x installed **Microsoft SQL Server running** **Required Python libraries installed (pyodbc, tkinter, configparser, csv, json, xml)** **SQL script (database.sql) available in db/** **Import files (authors.json, publishers.csv, genres.xml) available in /src/data/** **config.ini configured with valid database connection**	
Dependencies and Requirements: Windows PC with MS SQL Server Access to project files and scripts User account with permission to create database and tables	

Step	Test Steps	Test Data	Expected Result	Notes
1	Open SQL Server Management Studio		SQL Server is running and accessible	
2	Run database.sql script		Database library is created; tables author, publisher, book, book_author, genre exist; views vw_book_list and vw_publisher_report are created	
3	Open main.py to launch application		Application window opens with all tabs (Books, Authors,	

			Import, Report, Settings)	
4	Configure database in Settings tab	Driver: ODBC Driver 18 for SQL Server Server: localhost\SQLEXPRESS Database: library Trusted Connection: yes Encrypt: yes Trust server certificate: yes	Connection test succeeds; no errors displayed	
5	Import initial data	Authors: authors.json Publishers: publishers.csv Genres: genres.xml	Data imported successfully into respective tables; messages confirm success	Invalid file formats trigger error dialogs
6	Verify imported data in Books and Authors tabs		Authors, Publishers, and Genres are visible; no empty required fields	Check treeview displays email and active status for authors
7	Close application		Application closes without errors	