

## TEST CASES

### Library-2 table

ISBN-13	Unique numeric digits (13 digits)
Title	Text, up to 60 characters, including blanks
Copyright	Year (4 digits)
Publisher	Text, up to 60 characters, including blanks
AuthorLast	Last name of author, up to 20 characters, including blanks
AuthorFirst	First name of author, up to 20 characters, including blanks
AuthorMI	Middle initial of author (optional)

**Test Case 1:** Attempt to enter a valid complete record into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.		As expected
2	Click on the field "ID" > type in the 13 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > type in 4 digits: "2010", press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in middle initial: "E", press tab.	Entry accepted	As expected

**Test Case 2:** Attempt to enter an invalid digit of ID into the database

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.		As expected
2	Click on the field "ID" > type in the 9 digits: "978084939", then press tab.	Error – Entry not accepted	As expected
3	Back to the same field in step 2 > type in the 14 digits: "97808493964034", then press tab.	Entry not accepted, only display 13 digits	As expected

**Test Case 3:** Attempt to enter a blank title into the database. **(Existing Bug 10)**

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits: "9780849396", then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > press tab to leave the Title blank.	Entry accepted	Entry not accepted
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected

**Test Case 4:** Attempt to enter a 60-character title into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits: "9780849396", then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in 60 characters: "SoftwareTestingSoftwareTestingSoftwareTestingSoftwareTesting", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "E", press tab.	Entry accepted	As expected

**Test Case 5:** Attempt to enter a 61-character title into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ISBN-13" > type in the 13 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in 61 characters: "SoftwareTestingSoftwareTestingSoftwareTestingSoftwareTestingS", then press tab.	Entry not accepted – only display 60 characters.	As expected

**Test Case 6:** Attempt to enter invalid copyright into the database

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.		As expected
2	Click on the field "ISBN-13" > type in the 13 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > type in "a", press tab.	Entry not accepted – only digit number accepted.	As expected
5	In the same field "Copyright" > type in 5 digits "20100", press tab.	Entry not accepted – only accept 4 digits.	As expected

**Test Case 7:** Attempt to enter a blank publisher into the database. **(Existing Bug 13)**

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits: "9780849396", then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > press tab to leave the field blank.	Entry accepted	Entry not accepted
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected

**Test Case 8:** Attempt to enter a 60-character publisher into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in 60 characters: "PearsoPearsoPearsoPearsoPearsoPearsoPearsoPearsoPearso Pearso", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected

**Test Case 9:** Attempt to enter a 61-character publisher into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in 61 characters: "PearsoPearsoPearsoPearsoPearsoPearsoPearsoPearsoPearso", press tab.	Error – Invalid length – Entry not accepted	As expected

**Test Case 10:** Attempt to enter author's last name up to 20 characters into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in 20 characters: "VeenendaalVeenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected

**Test Case 11:** Attempt to enter author's last name up to 21 characters into the database

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in 21 characters: "VeenendaalVeenendaalV", press tab.	Error – Invalid length – Entry not accepted	As expected

**Test Case 12:** Attempt to enter a blank last name of author into the database. (Existing Bug 85)

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > press tab to leave the field blank.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected

**Test Case 13:** Attempt to enter author's first name up to 20 characters into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.		As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in 20 characters: "VanVanVanVVanVanVanV", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected



**Test Case 14:** Attempt to enter author's first name up to 21 characters into the database.

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in 21 characters: "VanVanVanVVanVanVanVa", press tab.	Error – Invalid length – entry not accepted	As expected

**Test Case 15:** Attempt to enter a blank first name of author into the database (**Existing Bug 86**)

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > press tab to leave the field blank.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in "Er", press tab.	Entry accepted	As expected

**Test Case 16:** Attempt to enter a blank middle name of author into the database (check 'optional')

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396403, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > press tab to leave the field blank.	Entry accepted	Entry not accepted

**Test Case 17:** Attempt to enter a full middle name of author into the database

**Steps:** Steps to carry out the test.

No.	Details	Expected Results	Actual Results
1	Open the database, then open the Library table.	Entry accepted	As expected
2	Click on the field "ID" > type in the 10 digits as follow: 9780849396, then press tab.	Entry accepted	As expected
3	Continue in the field "Title" > type in the text "Software Testing", then press tab.	Entry accepted	As expected
4	Continue in the field "Copyright" > press tab.	Entry accepted	As expected
5	Continue in the field "Publisher" > type in "Pearson", press tab.	Entry accepted	As expected
6	Continue in the field "AuthorLast" > type in "Veenendaal", press tab.	Entry accepted	As expected
7	Continue in the field "AuthorFirst" > type in "Van", press tab.	Entry accepted	As expected
8	Continue in the field "AuthorMi" > type in full middle name: "Erick", press tab.	Entry Not accepted, only display middle initial.	As expected

