Question 1: Insert yourself as a New Borrower. Do not provide the Card\_no in your query.

Question 2: Update your phone number to (837) 721-8965.

Question 3: Increase the number of book\_copies by 1 for the ‘East Branch’.

Question 4-a: Insert a new BOOK with the following info: Title: ‘Harry Potter and the Sorcerer's Stone’ ; Book\_author: ‘J.K. Rowling’ ; Publisher\_name: ‘Oxford Publisheing’.

Question 4-b: You also need to insert the following branches:

|  |  |
| --- | --- |
| North Branch | 456 NW, Irving, TX 76100 |
| UTA Branch | 123 Cooper St, Arlington TX 76101 |

INSERT INTO LIBRARY\_BRANCH

VALUES ((SELECT COALESCE(MAX(branch\_id), 0) + 1 FROM LIBRARY\_BRANCH), 'North Branch', '456 NW, Irving, TX 76101');

A black screen with white text

Description automatically generated

LIBRARY\_BRANCH count went from 3 to 4.

INSERT INTO LIBRARY\_BRANCH (branch\_id, branch\_name, branch\_address)

VALUES ((SELECT COALESCE(MAX(branch\_id), 0) + 1 FROM LIBRARY\_BRANCH), 'UTA Branch', '123 Cooper St, Arlington TX 76101');

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Description automatically generated

LIBRARY\_BRANCH count went from 4 to 5

.

Question 5: Return all Books that were loaned between March 5, 2022 until March 23, 2022. List Book title and Branch name, and how many days it was borrowed for.

SELECT

B.Title AS Book\_Title,

LB.Branch\_name AS Branch\_Name,

julianday(BL.Returned\_date) - julianday(BL.date\_out) AS Days\_Borrowed

FROM

BOOK\_LOANS BL

JOIN BOOK B ON BL.book\_id = B.Book\_id

JOIN LIBRARY\_BRANCH LB ON BL.branch\_id = LB.Branch\_id

WHERE BL.date\_out BETWEEN '2022-03-05' AND '2022-03-23';

A screenshot of a computer program

Description automatically generated

The number of records were not affected.

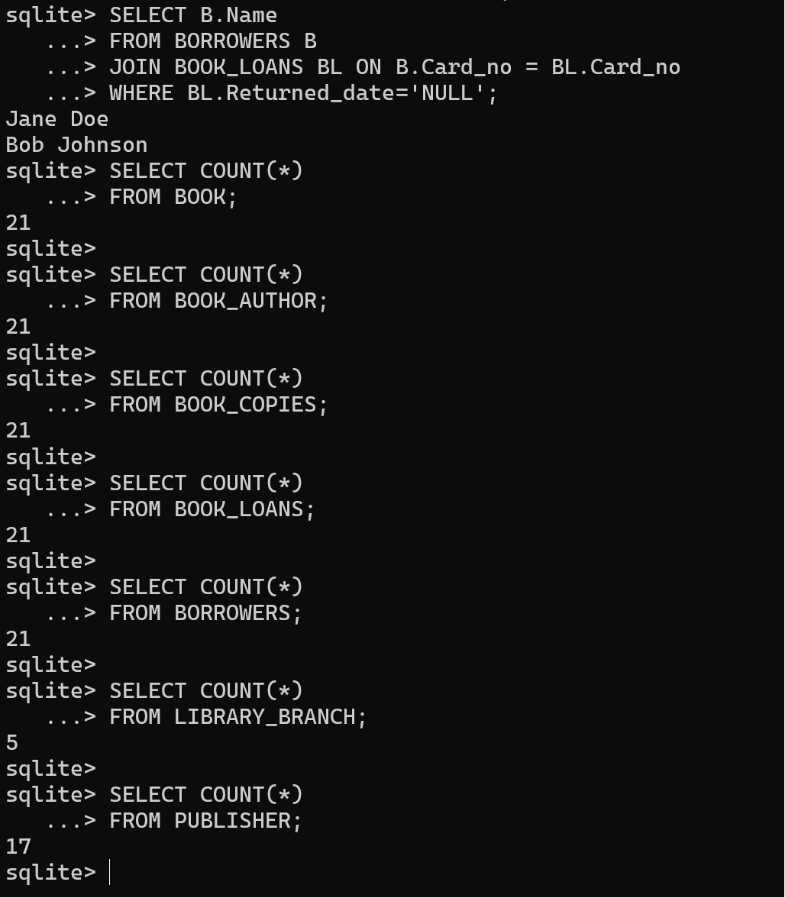
Question 6: Return a List borrower names, that have books not returned.

SELECT DISTINCT B.Name

FROM BORROWERS B

JOIN BOOK\_LOANS BL ON B.Card\_no = BL.Card\_no

WHERE BL.Returned\_date='NULL';



The number of records were not affected.

Question 7: Create a report that will return all branches with the number of books borrowed per branch separated by if they have been returned, still borrowed, or late.

Question 8: List all the books (title) and the maximum number of days that they were borrowed.

SELECT B.title, MAX(julianday(BL.Returned\_date) - julianday(BL.date\_out)) AS max\_days\_borrowed

FROM BOOK B

JOIN BOOK\_LOANS BL ON B.book\_id = BL.book\_id

GROUP BY B.title;

A screenshot of a computer program

Description automatically generated

The number of records were not affected.

Question 9: Create a report for Ethan Martinez with all the books they borrowed. List the book title and author. Also, calculate the number of days each book was borrowed for and if any book is late being returned. Order the results by the date\_out.

SELECT

B.title AS book\_title,

BA.Author\_name AS author,

BL.date\_out,

BL.due\_date,

BL.Returned\_date,

julianday(BL.Returned\_date) - julianday(BL.due\_date) AS days\_late

FROM BOOK\_LOANS BL

JOIN BORROWERS BOR ON BL.card\_no = BOR.card\_no

JOIN BOOK B ON BL.book\_id = B.book\_id

JOIN BOOK\_AUTHOR BA ON B.book\_id = BA.book\_id

WHERE BOR.Name = 'Ethan Martinez'

ORDER BY BL.date\_out;

A screenshot of a computer

Description automatically generated

The number of records were not affected.

Question 10: Return the names of all borrowers that borrowed a book from the West Branch include their addresses.