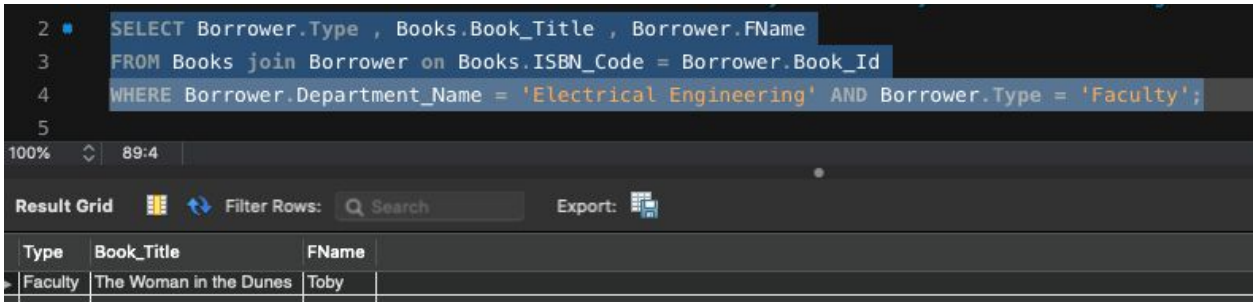
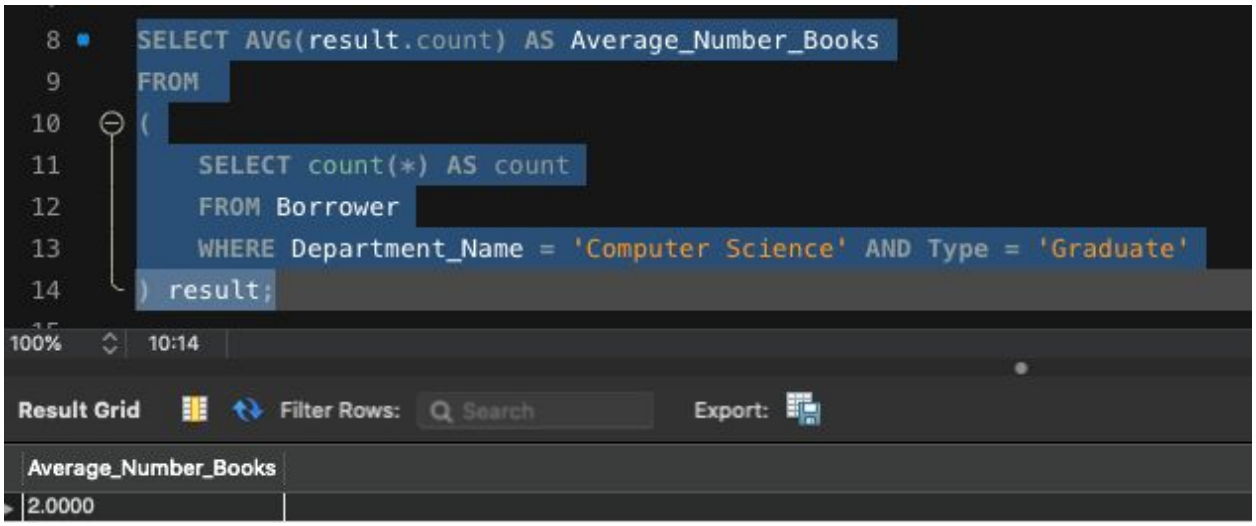
1.

```
SELECT Borrower.Type , Books.Book_Title , Borrower.FName
FROM Books join Borrower on Books.ISBN_Code = Borrower.Book_Id
WHERE Borrower.Department_Name = 'Electrical Engineering' AND Borrower.Type = 'Faculty';
```



2.

```
SELECT AVG(result.count) AS Average_Number_Books
FROM
(
        SELECT count(*) AS count
   FROM Borrower
   WHERE Department_Name = 'Computer Science' AND Type = 'Graduate'
) result;
```



3.

```
SELECT FNAME, LName , datediff(Borrower.Actual_Return_Date, Borrower.Borrowed_until) *
Over_Due.Over_Due_Fee AS Amount_Due
FROM Borrower join Books b on Borrower.Book_Id = b.ISBN_Code , Over_Due
WHERE  datediff(Borrower.Actual_Return_Date, Borrower.Borrowed_until) > 0
AND b.Category_id = Over_DUE.CategoryID AND Borrower.Type = 'Undergraduate';
```

```
16    -- 3 . Give the information of all the undergraduate students who have books overdue, and the fine they need to pay.
17    SELECT FNAME, LName , datediff(Borrower.Actual_Return_Date, Borrower.Borrowed_until) * Over_Due.Over_Due_Fee AS Amount_Due
18    FROM Borrower join Books b on Borrower.Book_Id = b.ISBN_Code , Over_Due
19    WHERE  datediff(Borrower.Actual_Return_Date, Borrower.Borrowed_until) > 0
20    AND b.Category_id = Over_DUE.CategoryID AND Borrower.Type = 'Undergraduate';
21
```

100% 77:20

Result Grid | Filter Rows: Search | Export:

FNAME	LName	Amount_Due
Liam	Khan	0.80
Milo	Lucas	2.00
Jim	Halpert	7.00
Pam	Bessely	2.00
Angela	Elliot	16.50

Result Grid | Form Editor

4.

SELECT Library_Branchs.Branch_Name
FROM Library_Branchs, Book_Copies , Borrower
WHERE Borrower.Department_Name = 'Computer Science' AND Borrower.Type = 'Graduate' AND Library_Branchs.Branch_Id = Book_Copies.BranchId
GROUP BY Library_Branchs.Branch_Name;

```
24    SELECT Library_Branchs.Branch_Name
25    FROM Library_Branchs, Book_Copies , Borrower
26    WHERE Borrower.Department_Name = 'Computer Science' AND Borrower.Type = 'Graduate'
27    AND Library_Branchs.Branch_Id = Book_Copies.BranchId
28    GROUP BY Library_Branchs.Branch_Name;
```

100% 38:28

Result Grid | Filter Rows: Search | Export:

Branch_Name
Business and Management
Law, Arts and Literature
Science and Technology

5.

SELECT Book_Title
FROM Books join Book_Copies on Books.ISBN_Code = Book_Copies.ISBN_ID
WHERE Book_Copies.BranchId = 11 AND Book_Copies.Number_Copies = Books.No_Copies_Actual;

```
32    SELECT Book_Title
33    FROM Books join Book_Copies on Books.ISBN_Code = Book_Copies.ISBN_ID
34    WHERE Book_Copies.BranchId = 11 AND Book_Copies.Number_Copies = Books.No_Copies_Actual;
35
```

100% 88:34

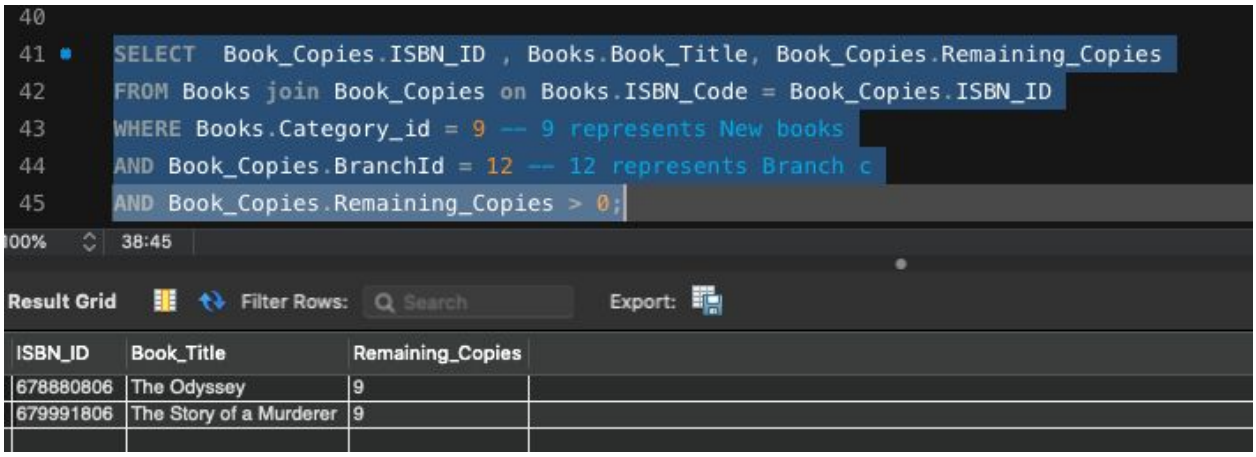
Result Grid | Filter Rows: Search | Export:

Book_Title
Selected Stories and Other Writings

6.

7.

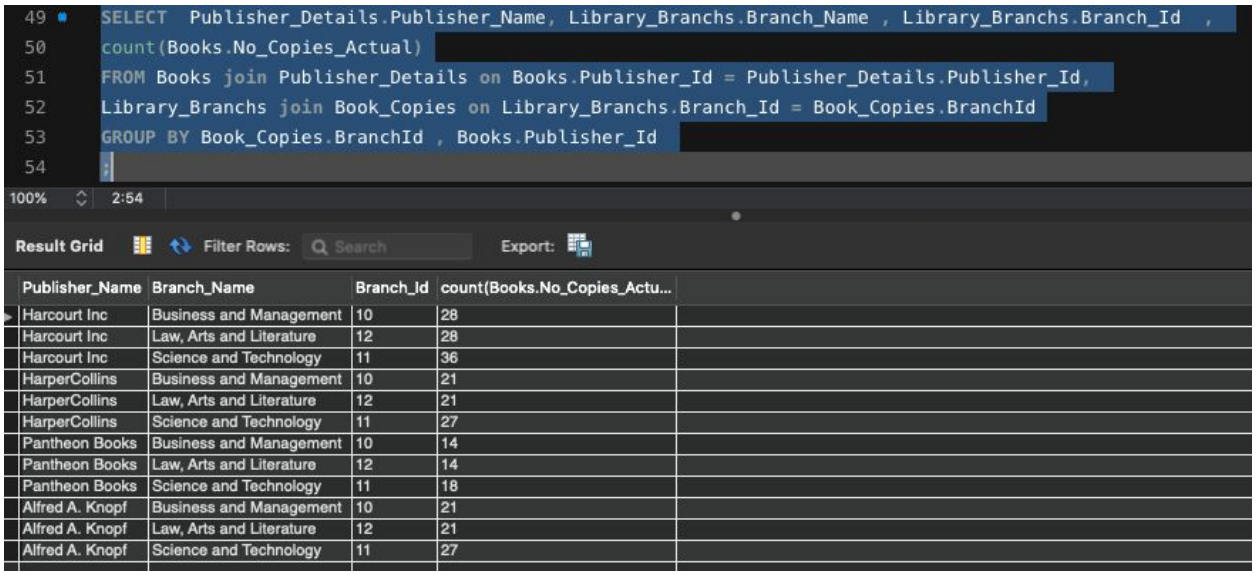
```
SELECT  Book_Copies.ISBN_ID , Books.Book_Title, Book_Copies.Remaining_Copies
FROM Books join Book_Copies on Books.ISBN_Code = Book_Copies.ISBN_ID
WHERE Books.Category_id = 9 -- 9 represents New books
AND Book_Copies.BranchId = 12 -- 12 represents Branch c
AND Book_Copies.Remaining_Copies > 0;
```



ISBN_ID	Book_Title	Remaining_Copies
678880806	The Odyssey	9
679991806	The Story of a Murderer	9

8.

```
SELECT  Publisher_Details.Publisher_Name, Library_Branchs.Branch_Name ,
Library_Branchs.Branch_Id  ,
count(Books.No_Copies_Actual)
FROM Books join Publisher_Details on Books.Publisher_Id = Publisher_Details.Publisher_Id,
Library_Branchs join Book_Copies on Library_Branchs.Branch_Id = Book_Copies.BranchId
GROUP BY Book_Copies.BranchId , Books.Publisher_Id
;
```



Publisher_Name	Branch_Name	Branch_Id	count(Books.No_Copies_Actu...
Harcourt Inc	Business and Management	10	28
Harcourt Inc	Law, Arts and Literature	12	28
Harcourt Inc	Science and Technology	11	36
HarperCollins	Business and Management	10	21
HarperCollins	Law, Arts and Literature	12	21
HarperCollins	Science and Technology	11	27
Pantheon Books	Business and Management	10	14
Pantheon Books	Law, Arts and Literature	12	14
Pantheon Books	Science and Technology	11	18
Alfred A. Knopf	Business and Management	10	21
Alfred A. Knopf	Law, Arts and Literature	12	21
Alfred A. Knopf	Science and Technology	11	27