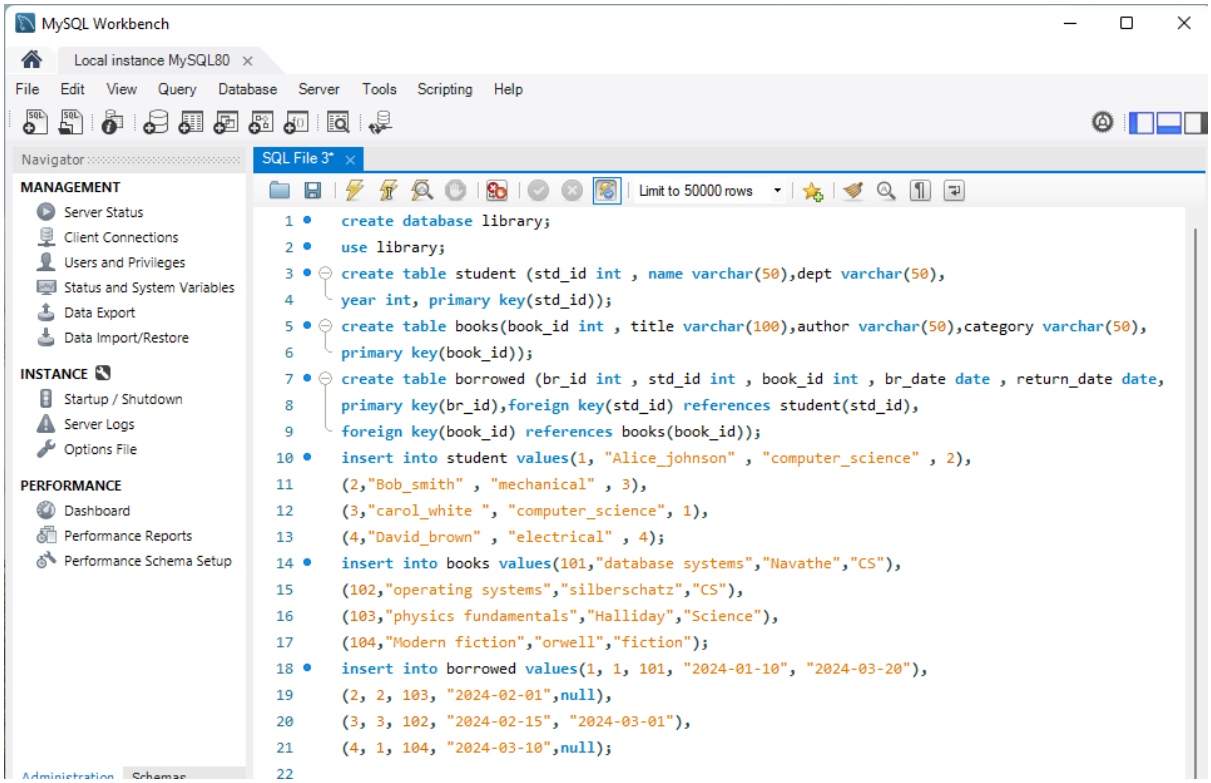
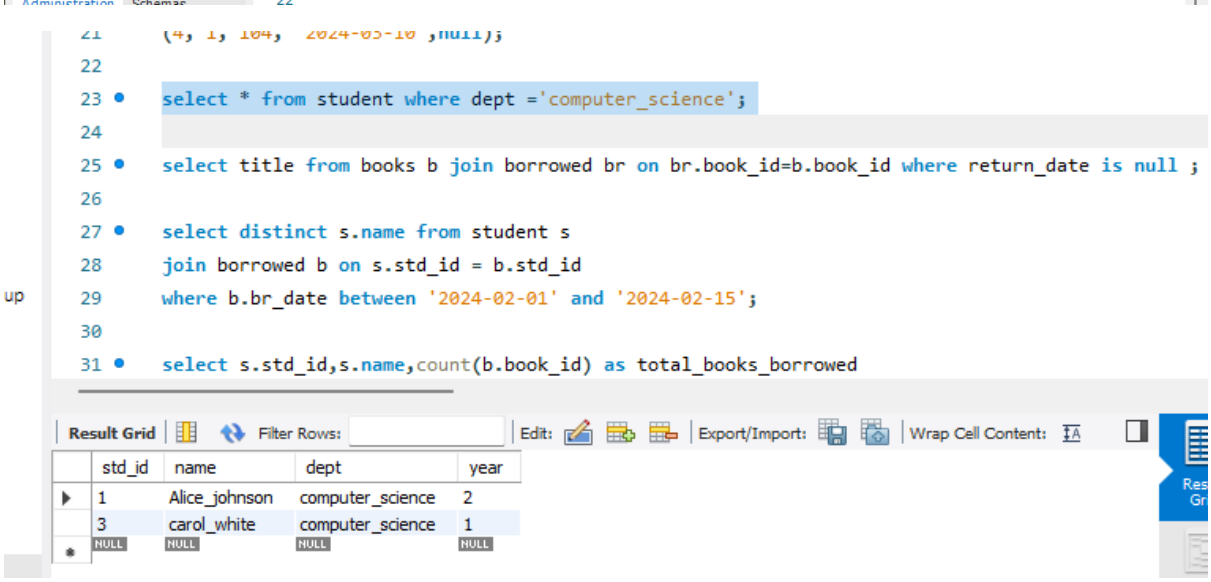
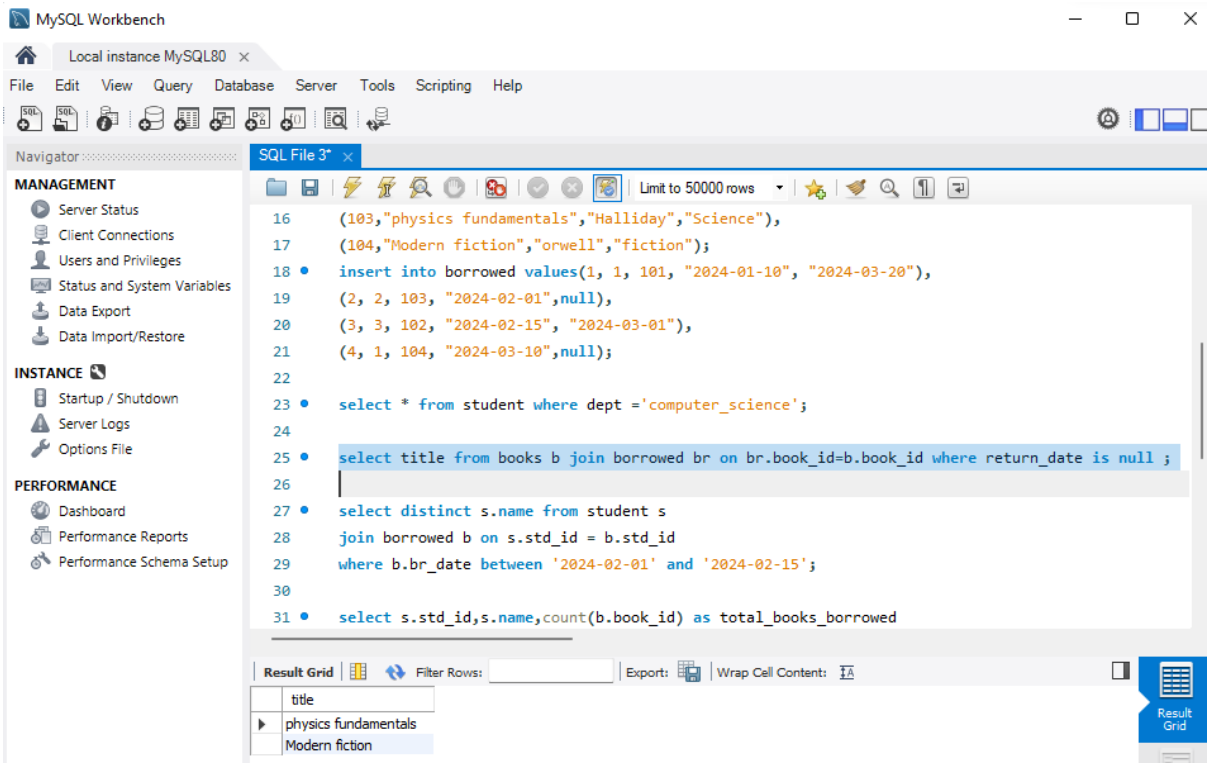
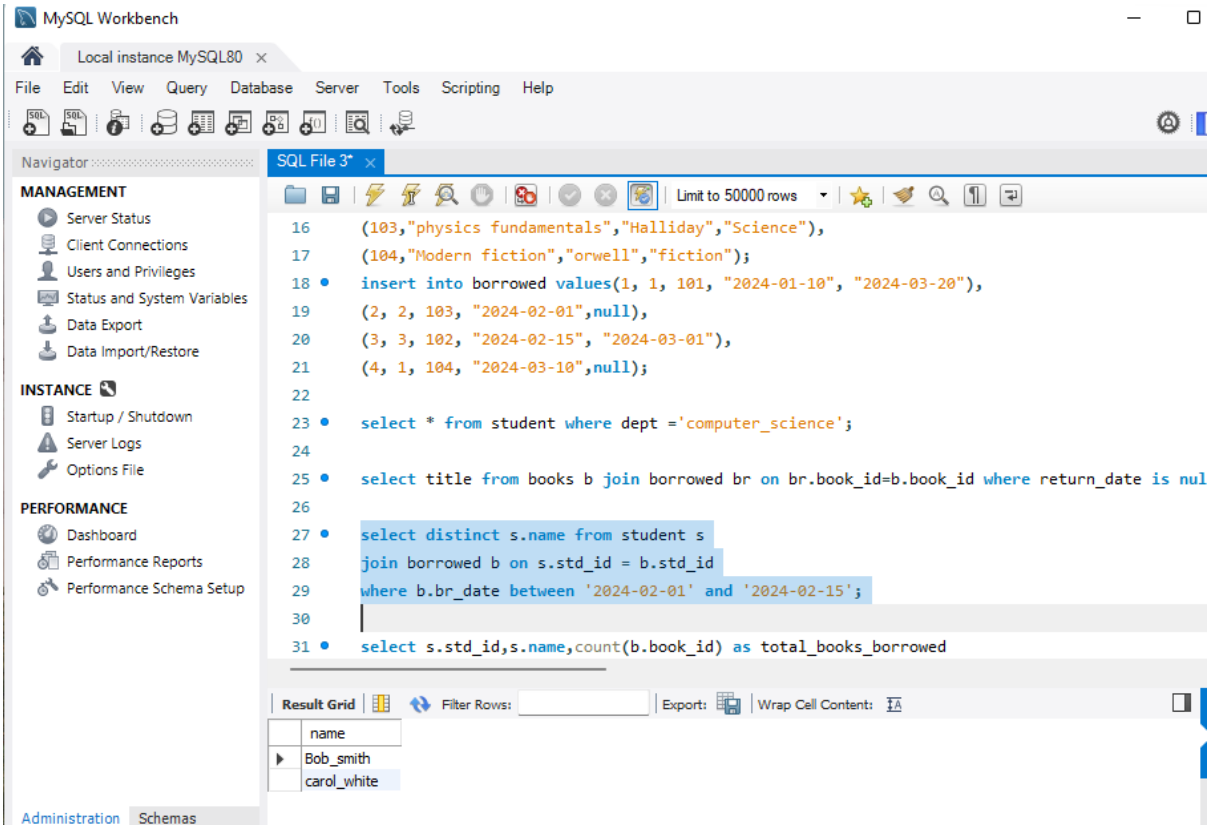
Library management






MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SQL File 3*
Limit to 50000 rows
16 (103,"physics fundamentals","Halliday","Science"),
17 (104,"Modern fiction","orwell","fiction");
18 insert into borrowed values(1, 1, 101, "2024-01-10", "2024-03-20"),
19 (2, 2, 103, "2024-02-01",null),
20 (3, 3, 102, "2024-02-15", "2024-03-01"),
21 (4, 1, 104, "2024-03-10",null);
22
23 select * from student where dept ='computer_science';
24
25 select title from books b join borrowed br on br.book_id=b.book_id where return_date is null ;
26
27 select distinct s.name from student s
28 join borrowed b on s.std_id = b.std_id
29 where b.br_date between '2024-02-01' and '2024-02-15';
30
31 select s.std_id,s.name,count(b.book_id) as total_books_borrowed
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
title
physics fundamentals
Modern fiction
Result Grid


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
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Data Export
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Startup / Shutdown
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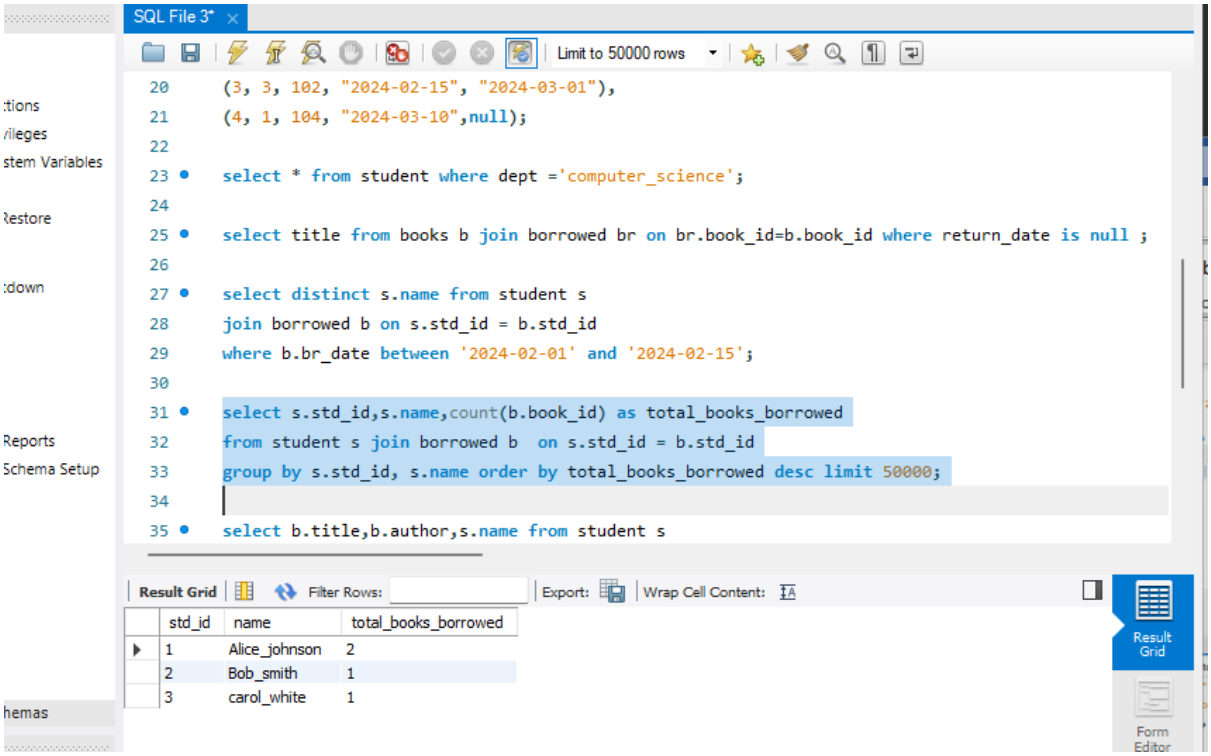
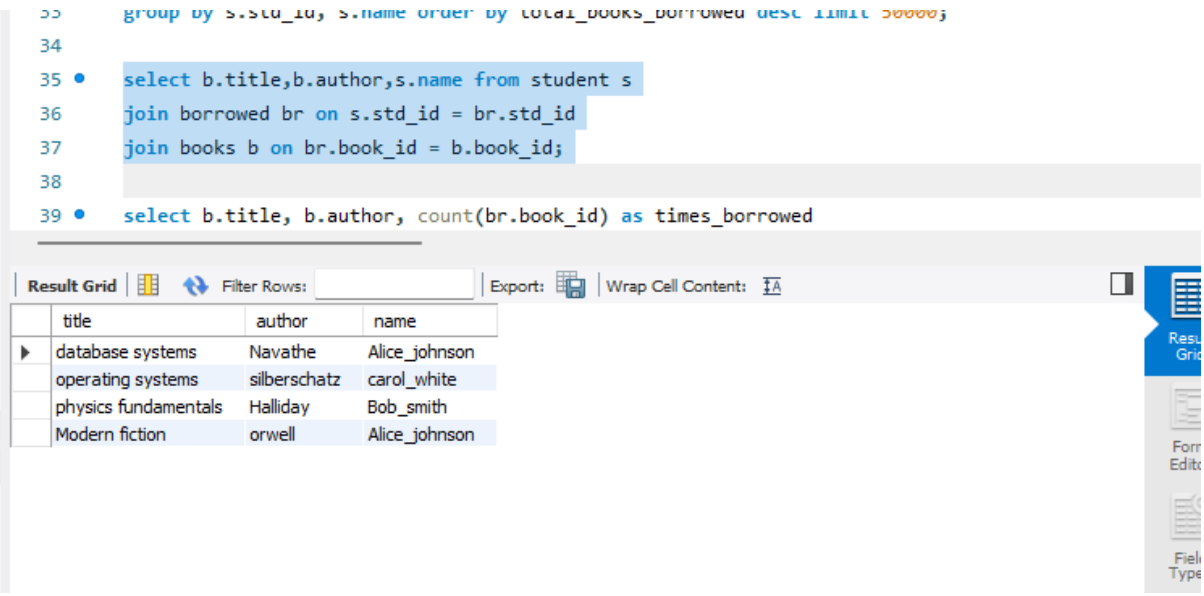
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Administration
Schemas
SQL File 3*
Limit to 50000 rows
16 (103,"physics fundamentals","Halliday","Science"),
17 (104,"Modern fiction","orwell","fiction");
18 insert into borrowed values(1, 1, 101, "2024-01-10", "2024-03-20"),
19 (2, 2, 103, "2024-02-01",null),
20 (3, 3, 102, "2024-02-15", "2024-03-01"),
21 (4, 1, 104, "2024-03-10",null);
22
23 select * from student where dept ='computer_science';
24
25 select title from books b join borrowed br on br.book_id=b.book_id where return_date is nul
26
27 select distinct s.name from student s
28 join borrowed b on s.std_id = b.std_id
29 where b.br_date between '2024-02-01' and '2024-02-15';
30
31 select s.std_id,s.name,count(b.book_id) as total_books_borrowed
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
name
Bob_smith
carol_white


SQL File 3*
Limit to 50000 rows
(3, 3, 102, "2024-02-15", "2024-03-01"),
(4, 1, 104, "2024-03-10",null);
select * from student where dept ='computer_science';
select title from books b join borrowed br on br.book_id=b.book_id where return_date is null ;
select distinct s.name from student s
join borrowed b on s.std_id = b.std_id
where b.br_date between '2024-02-01' and '2024-02-15';
select s.std_id,s.name,count(b.book_id) as total_books_borrowed
from student s join borrowed b on s.std_id = b.std_id
group by s.std_id, s.name order by total_books_borrowed desc limit 50000;
select b.title,b.author,s.name from student s
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
std_id
name
total_books_borrowed
1
Alice_johnson
2
2
Bob_smith
1
3
carol_white
1
Result Grid
Form Editor


group by s.std_id, s.name order by total_books_borrowed desc limit 50000;
select b.title,b.author,s.name from student s
join borrowed br on s.std_id = br.std_id
join books b on br.book_id = b.book_id;
select b.title, b.author, count(br.book_id) as times_borrowed
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
title
author
name
database systems
Navathe
Alice_johnson
operating systems
silberschatz
carol_white
physics fundamentals
Halliday
Bob_smith
Modern fiction
orwell
Alice_johnson

```
38
39  select b.title, b.author, count(br.book_id) as times_borrowed
40  from books b join borrowed br on b.book_id = br.book_id
41  group by b.book_id, b.title, b.author
42  having count(br.book_id) = (select max(book_count) from (select count(book_id) as book_count
43  from borrowed group by book_id) as counts);
44
45  select s.std_id, s.name from student s left join borrowed b on s.std_id = b.std_id
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

title	author	times_borrowed
database systems	Navathe	1
operating systems	silberschatz	1
physics fundamentals	Halliday	1
Modern fiction	orwell	1

Result Grid | Form Editor

```
45  select s.std_id, s.name from student s left join borrowed b on s.std_id = b.std_id
46  where b.book_id is null;
47
48  select category, count(book_id) as total_books from books group by category;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

std_id	name
4	David_brown

```
48  select category, count(book_id) as total_books from books group by category;
49
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	total_books
CS	2
Science	1
fiction	1