

DBMS LAB-TEST2

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Subject : DBMS
Date : 10-07-2021.

Write - Up :

1) SELECT B.borrower-name , B.address ,
COUNT(*)

FROM borrower B , book-loans L
WHERE B.card-no = L.card-no
GROUP BY B.card-no
HAVING COUNT(*) > 5 ;

2) SELECT title , no-of-copies
FROM ((book-authors NATURAL JOIN
book)
NATURAL JOIN book-copies)
NATURAL JOIN library-branch)
WHERE author-name = 'Stephen King'
and branch-name = 'Central' ;

3) SELECT B.borrower-name
FROM borrower B
WHERE B.card-no NOT IN (
SELECT B.card-no

FROM book_loans L
WHERE B.card-no = L.card-no
);

4) SELECT B.title, R.borrower_name, &
R.address
FROM book B, borrowers R, book_loans
BL, library_branch LB
WHERE LB.branch_name = 'Tottenham'
AND LB.branch_id = BL.branch_id
AND BL.due_date = '2021-07-10' AND
BL.card_no = R.card_no AND BL.book_id
= B.book_id;

BOOK (Book_id, Title, Publisher_Name, Pub_Year)

BOOK_AUTHORS (Book_id, Author_Name)

PUBLISHER (Name, Address, Phone)

BOOK_COPIES (Book_id, Branch_id, No-of_Copies)

BOOK_LENDING (Book_id, Branch_id, Card_No, Date_Out, Due_Date)

LIBRARY_BRANCH (Branch_id, Branch_Name, Address)

1. Retrieve the names, addresses, and number of books checked out for all borrowers

who have more than five books checked out.

2. For each book authored (or co-authored) by "Stephen King", retrieve the title and

the number of copies owned by the library branch whose name is "Central".

3. List all the names of all borrowers who do not have any books checked out .

4. For each book that is loaned out from the "Townhall" branch and whose Due Date

is today, retrieve the book title, the borrower's name, and the borrower's address.

I had to add an extra borrower table and please check my github for the SQL file.

Creation of tables and entering table values:

create database library;

use library;

create table publisher(

```
        name varchar(30) primary key,  
        address varchar(50),  
        phone varchar(10)  
    );  
    select * from publisher;  
  
create table book(  
        book_id int primary key,  
        title varchar(20),  
        pub_name varchar(30),  
        pub_year varchar(20),  
        foreign key(pub_name) references publisher(name) on delete cascade  
    );  
    select * from book;  
  
create table book_authors(  
        book_id int,  
        author_name varchar(30),  
        primary key(book_id,author_name),  
        foreign key(book_id) references book(book_id) on delete cascade  
    );  
    select * from book_authors;  
  
create table library_branch(  
        branch_id int primary key,  
        branch_name varchar(20),
```

```
address varchar(50)
);

select * from library_branch;

create table book_copies(
    book_id int,
    branch_id int,
    no_of_copies int,
    primary key(book_id,branch_id),
    foreign key(book_id) references book(book_id) on delete cascade,
    foreign key(branch_id) references library_branch(branch_id) on delete
cascade
);

select * from book_copies;

create table borrower(
    card_no int primary key,
    borrower_name varchar(30),
    address varchar(50),
    phone varchar(10)
);

select * from borrower;

create table book_loans(
    book_id int,
    branch_id int,
    card_no int,
```

```
date_out date,  
due_date date,  
primary key(book_id,branch_id,card_no),  
foreign key(book_id) references book(book_id) on delete cascade,  
foreign key(branch_id) references library_branch(branch_id) on delete  
cascade,  
foreign key(card_no) references borrower(card_no) on delete cascade  
);  
select * from book_loans;
```

```
insert into publisher  
values ('Mcgraw-Hill','Bangalore',9989076587),  
('Pearson','New Delhi',9889076565),  
('Random House','Hyderabad',7455679345),  
('Hachette Livre','Chennai',8970862340),  
('Grupo Planeta','Bangalore',7756120238);
```

```
select * from publisher;
```

```
insert into book  
values (1,'DBMS','Mcgraw-Hill','Jan-2017'),  
(2,'ADBMS','Mcgraw-Hill','Jun-2016'),  
(3,'CN','Pearson','Sep-2016'),  
(4,'CG','Grupo Planeta','Sep-2015'),  
(5,'OS','Pearson','May-2016'),  
(6,'Art of living','Pearson','May-2018');
```

```
select * from book;
```

```
insert into book_authors
```

```
values (1,'Navathe'),  
       (2,'Navathe'),  
       (3,'Tanenbaum'),  
       (4,'Edward Angel'),  
       (5,'Galvin'),  
       (6,'Stephen King');
```

```
select * from book_authors;
```

```
insert into library_branch
```

```
values (10,'RR Nagar','Bangalore'),  
       (11,'Rnsit','Bangalore'),  
       (12,'Rajaji Nagar','Bangalore'),  
       (13,'Nitte','Mangalore'),  
       (14,'Manipal','Udupi'),  
       (15,'Townhall','US'),  
       (16,'Central','US');
```

```
select * from library_branch;
```

```
insert into book_copies
```

```
values (4,10,10),  
       (5,10,11),  
       (2,12,12),
```

(5,12,13),

(3,13,14),

(1,11,10),

(3,14,11),

(6,16,5),

(2,15,8),

(1,15,8);

select * from book_copies;

insert into borrower

values (101,'Neelam','Bangalore','8618518254'),

(102,'Aayush','Bangalore','8618519765'),

(103,'Hema','US','8618511543'),

(104,'Gagan','Mangalore','8618518631'),

(105,'Meghana','Udupi','9548518254');

select * from borrower;

insert into book_loans

values (1, 10, 101,'2017-01-01','2017-01-06'),

(2, 10, 101,'2017-01-01','2017-01-06'),

(3, 14, 102,'2017-01-11','2017-03-11'),

(2, 13, 103,'2017-02-21','2017-04-21'),

(4, 11, 101,'2017-03-15','2017-07-15'),

(1, 11, 104,'2017-04-12','2017-05-12'),

(4,15,102,'2021-06-05','2021-07-10'),

(6,15,103,'2021-06-22','2021-07-25');

```
select * from book_loans;
```

#screenshots for the above

This screenshot shows the MySQL Workbench interface. In the top navigation bar, there are three tabs: "Local instance MySQL80", "Local instance MySQL80", and "Local instance MySQL80 (libr...)".

The main area displays a SQL editor window titled "Query 1 SQL File 3". The SQL code is as follows:

```
1 • show databases;
2 • create database library;
3
4 • use library;
5
6 • create table publisher(
7     name varchar(30) primary key,
8     address varchar(30),
9     phone varchar(10)
10 );
11 • select * from publisher;
```

To the right of the editor, a status bar displays: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

Below the editor, the "Output" pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
3	08:59:44	insert into book_lending values (1, 10, 101, 2017-01-01, 2017-01-06), (3, 14, 101, 2017-01-11, 2017-03-11), (2, 13, 101, 201...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.375 sec
4	09:03:05	select * from book_lending LIMIT 0, 2000	5 row(s) returned	0.000 sec / 0.000 sec
5	09:31:49	show databases	14 row(s) returned	0.000 sec / 0.000 sec
6	09:32:25	create database library	1 row(s) affected	0.187 sec
7	09:32:35	use library	0 row(s) affected	0.062 sec
8	09:34:14	create table publisher(name varchar(30) primary key, address varchar(50), phone varchar(10))	0 row(s) affected	0.469 sec

The bottom status bar shows the system time as "09:34 AM 10-07-2021".

This screenshot shows the MySQL Workbench interface, similar to the previous one but with a different set of queries.

The top navigation bar shows the same three tabs: "Local instance MySQL80", "Local instance MySQL80", and "Local instance MySQL80 (libr...)".

The SQL editor window "Query 1 SQL File 3" contains the following SQL code:

```
4 • use library;
5
6 • create table publisher(
7     name varchar(30) primary key,
8     address varchar(30),
9     phone varchar(10)
10 );
11 • select * from publisher;
```

The "Output" pane shows the execution results, which are identical to the first screenshot.

Below the editor, a "Result Grid" pane is open, displaying the data from the "publisher" table:

name	address	phone
NULL	NULL	NULL

The bottom status bar shows the system time as "09:35 AM 10-07-2021".

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3... Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr... Local instance MySQL80

MANA

```

13 • create table book(
14   book_id int primary key,
15   title varchar(20),
16   pub_name varchar(30),
17   pub_year varchar(20),
18   foreign key(pub_name) references publisher(name) on delete cascade
19 )
20 • select * from book;

```

INSTAP

Information

Result Grid | Filter Rows: Limit to 2000 rows | Edit | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types | Context Help | Snippets

book_id	title	pub_name	pub_year

book 3 x

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
6	09:32:25	create database library	1 row(s) affected	0.187 sec
7	09:32:35	use library	0 row(s) affected	0.062 sec
8	09:34:14	create table publisher(name varchar(30) primary key, address varchar(50), phone varchar(10))	0 row(s) affected	0.469 sec
9	09:34:59	select * from publisher LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec
10	09:36:54	create table book(book_id int primary key, title varchar(20), pub_name varchar(30), pub_year varchar(20), foreign key(pub_name) references publisher(name) on delete cascade)	0 row(s) affected	0.282 sec
11	09:36:59	select * from book LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Windows Taskbar: 62% 4 ENG 09:37 AM 10-07-2021

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3... Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr... Local instance MySQL80

MANA

```

21
22 • create table book_authors(
23   book_id int,
24   author_name varchar(30),
25   primary key(book_id,author_name),
26   foreign key(book_id) references book(book_id) on delete cascade
27 )
28 • select * from book_authors;

```

INSTAP

Information

Result Grid | Filter Rows: Limit to 2000 rows | Edit | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types | Context Help | Snippets

book_id	author_name

book_authors 4 x

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
8	09:34:14	create table publisher(name varchar(30) primary key, address varchar(50), phone varchar(10))	0 row(s) affected	0.469 sec
9	09:34:59	select * from publisher LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec
10	09:36:54	create table book(book_id int primary key, title varchar(20), pub_name varchar(30), pub_year varchar(20), foreign key(pub_name) references publisher(name) on delete cascade)	0 row(s) affected	0.282 sec
11	09:36:59	select * from book LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
12	09:38:19	create table book_authors(book_id int, author_name varchar(30), primary key(book_id,author_name), foreign key(book_id) references book(book_id) on delete cascade)	0 row(s) affected	0.250 sec
13	09:38:24	select * from book_authors LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Windows Taskbar: 62% 4 ENG 09:38 AM 10-07-2021

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (lib...)

MANA: 28 • select * from book_authors;

29
30 • create table library_branch(
branch_id int primary key,
branch_name varchar(20),
address varchar(50)
);
31
32
33
34
35 • select * from library_branch;

INSTAP:

Information Result Grid Filter Rows: Edit Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

library_branch 5 x

Action Output

#	Time	Action	Message	Duration / Fetch
10	09:36:54	create table book(book_id int primary key, title varchar(20), pub_name varchar(30), pub_year varchar(20), foreign key(book_id) references book_authors(author_id) on delete cascade, primary key(book_id,author_name), foreign key(book_id,author_name) on delete cascade)	0 row(s) affected	0.282 sec
11	09:36:59	select * from book LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
12	09:38:19	create table book_authors(book_id int, author_name varchar(30), primary key(book_id,author_name), foreign key(book_id) references book(book_id) on delete cascade, primary key(book_id,author_name), foreign key(book_id,author_name) on delete cascade)	0 row(s) affected	0.250 sec
13	09:38:24	select * from book_authors LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
14	09:39:44	create table library_branch(branch_id int primary key, branch_name varchar(20), address varchar(50))	0 row(s) affected	0.188 sec
15	09:39:47	select * from library_branch LIMIT 0, 2000	0 row(s) returned	0.016 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (lib...)

MANA: 38
39
40
41
42
43
44
45 • select * from book_copies;

INSTAP:

Information Result Grid Filter Rows: Edit Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

book_copies 6 x

Action Output

#	Time	Action	Message	Duration / Fetch
12	09:38:19	create table book_authors(book_id int, author_name varchar(30), primary key(book_id,author_name), foreign key(book_id) references book(book_id) on delete cascade, primary key(book_id,author_name), foreign key(book_id,author_name) on delete cascade)	0 row(s) affected	0.250 sec
13	09:38:24	select * from book_authors LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
14	09:39:44	create table library_branch(branch_id int primary key, branch_name varchar(20), address varchar(50))	0 row(s) affected	0.188 sec
15	09:39:47	select * from library_branch LIMIT 0, 2000	0 row(s) returned	0.016 sec / 0.000 sec
16	09:40:47	create table book_copies(book_id int, branch_id int, no_of_copies int, primary key(book_id,branch_id), foreign key(book_id) references book(book_id) on delete cascade, primary key(book_id,branch_id), foreign key(branch_id) references library_branch(branch_id) on delete cascade)	0 row(s) affected	0.187 sec
17	09:40:50	select * from book_copies LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3... Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr... ×

MANA

```

46
47 • create table borrower(
48     card_no int primary key,
49     borrower_name varchar(30),
50     address varchar(50),
51     phone varchar(10)
52 );
53 • select * from borrower;

```

INSTAP

Information

Result Grid | Filter Rows: Limit to 2000 rows | Edit | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

card_no	borrower_name	address	phone
NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action	Message	Duration / Fetch
14	09:39:44	create table library_branch(branch_id int primary key, branch_name varchar(20), address varchar(50))	0 row(s) affected	0.188 sec
15	09:39:47	select * from library_branch LIMIT 0, 2000	0 row(s) returned	0.016 sec / 0.000 sec
16	09:40:47	create table book_copies(book_id int, branch_id int, no_of_copies int, primary key(book_id,branch_id), foreign key(book_id) references book(book_id), foreign key(branch_id) references library_branch(branch_id) on delete cascade)	0 row(s) affected	0.187 sec
17	09:40:50	select * from book_copies LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec
18	09:45:15	create table borrower(card_no int primary key, borrower_name varchar(30), address varchar(50), phone varchar(10))	0 row(s) affected	0.172 sec
19	09:45:28	select * from borrower LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Windows Taskbar: 62% 4 ENG 09:45 AM 10-07-2021

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3... Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr... ×

MANA

```

59
60
61
62
63
64
65
66 • select * from book_loans;

```

INSTAP

Information

Result Grid | Filter Rows: Limit to 2000 rows | Edit | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

book_id	branch_id	card_no	date_out	due_date
NULL	NULL	NULL	NULL	NULL

Output

Action Output

#	Time	Action	Message	Duration / Fetch
17	09:40:50	select * from book_copies LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec
18	09:45:15	create table borrower(card_no int primary key, borrower_name varchar(30), address varchar(50), phone varchar(10))	0 row(s) affected	0.172 sec
19	09:45:28	select * from borrower LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
20	09:47:38	create table book_loans(book_id int, branch_id int, card_no int, date_out date, due_date date, primary key(book_id,branch_id,card_no))	0 row(s) affected	0.578 sec
21	09:47:47	select * from book_lending LIMIT 0, 2000	Error Code: 1146. Table 'library.book_lending' doesn't exist	0.000 sec
22	09:47:58	select * from book_loans LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Windows Taskbar: 62% 4 ENG 09:48 AM 10-07-2021

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigatator: Query 1 SQL File 3... ×

MANA: 59 date_out date,
60 due_date date,
61 primary key(book_id,branch_id,card_no),
62 foreign key(book_id) references book(book_id) on delete cascade,
63 foreign key(branch_id) references library_branch(branch_id) on delete cascade,
64 foreign key(card_no) references borrower(card_no) on delete cascade
INSTAN: 65
66 • select * from book_loans;

Result Grid | Filter Rows: Limit to 2000 rows | Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

book_loans 8 x

Output: Action Output

#	Time	Action	Message	Duration / Fetch
17	09:40:50	select * from book_copies LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec
18	09:45:15	create table borrower(card_no int primary key, borrower_name varchar(30), address varchar(50), phone varchar(10))	0 row(s) affected	0.172 sec
19	09:45:28	select * from borrower LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
20	09:47:38	create table book_loans(book_id int, branch_id int, card_no int, date_out date, due_date date, primary key(book_id, branch_id, card_no))	0 row(s) affected	0.570 sec
21	09:47:47	select * from book_lending LIMIT 0, 2000	Error Code: 1146. Table 'library.book_lending' doesn't exist	0.000 sec
22	09:47:58	select * from book_loans LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigatator: Query 1 SQL File 3... ×

MANA: 46
47 • create table borrower(
48 card_no int primary key,
49 borrower_name varchar(30),
50 address varchar(50),
51 phone varchar(10)
52);
53 • select * from borrower;

Result Grid | Filter Rows: Limit to 2000 rows | Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

borrower 7 x

Output: Action Output

#	Time	Action	Message	Duration / Fetch
14	09:39:44	create table library_branch(branch_id int primary key, branch_name varchar(20), address varchar(50))	0 row(s) affected	0.188 sec
15	09:39:47	select * from library_branch LIMIT 0, 2000	0 row(s) returned	0.016 sec / 0.000 sec
16	09:40:47	create table book_copies(book_id int, branch_id int, no_of_copies int, primary key(book_id, branch_id))	0 row(s) affected	0.187 sec
17	09:40:50	select * from book_copies LIMIT 0, 2000	0 row(s) returned	0.125 sec / 0.000 sec
18	09:45:15	create table borrower(card_no int primary key, borrower_name varchar(30), address varchar(50), phone varchar(10))	0 row(s) affected	0.172 sec
19	09:45:28	select * from borrower LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigat or: Query 1 SQL File 3* Limit to 2000 rows

MANA: 68 • insert into publisher
values ('Mcgraw-Hill', 'Bangalore', 9989076587),
('Pearson', 'New Delhi', 9889076505),
(Random House', 'Hyderabad', 7455679345),
(Hachette Livre', 'Chennai', 8970862340),
(Gruppo Planeta', 'Bangalore', 7756120238);
INSTAP: 74 • select * from publisher;

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

	name	address	phone
1	Gruppo Planeta	Bangalore	7756120238
2	Hachette Livre	Chennai	8970862340
3	Mcgraw-Hill	Bangalore	9989076587
4	Pearson	New Delhi	9889076505
5	Random House	Hyderabad	7455679345
6			

publisher 9 x Output:

Action Output

#	Time	Action	Message	Duration / Fetch
19	09:45:28	select * from borrower LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
20	09:47:38	create table book_loans(book_id int, branch_id int, card_no int, date_out date, due_date date, primary key(book_id))	Error Code: 1146. Table 'library.book_loans' doesn't exist	0.578 sec
21	09:47:47	select * from book_lending LIMIT 0, 2000	0 row(s) returned	0.000 sec
22	09:47:58	select * from book_loans LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
23	09:57:17	insert into publisher values ('Mcgraw-Hill', 'Bangalore', 9989076587), ('Pearson', 'New Delhi', 9889076505), ('Random House', 'Hyderabad', 7455679345), ('Hachette Livre', 'Chennai', 8970862340), ('Gruppo Planeta', 'Bangalore', 7756120238);	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
24	09:57:36	select * from publisher LIMIT 0, 2000	5 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigat or: Query 1 SQL File 3* Limit to 2000 rows

MANA: 78 values (1,'DBMS', 'Mcgraw-Hill', 'Jan-2017'),
(2,'ADBMS', 'Mcgraw-Hill', 'Jun-2016'),
(3,'CN', 'Pearson', 'Sep-2016'),
(4,'CG', 'Gruppo Planeta', 'Sep-2015'),
(5,'OS', 'Pearson', 'May-2016'),
(6,'Art of living', 'Pearson', 'May-2018');

INSTAP: 84 • select * from book;

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

	book_id	title	pub_name	pub_year
1	DBMS	Mcgraw-Hill	Jan-2017	
2	ADBMS	Mcgraw-Hill	Jun-2016	
3	CN	Pearson	Sep-2016	
4	CG	Gruppo Planeta	Sep-2015	
5	OS	Pearson	May-2016	
6	Art of living	Pearson	May-2018	
7				

book 10 x Output:

Action Output

#	Time	Action	Message	Duration / Fetch
21	09:47:47	select * from book_lending LIMIT 0, 2000	Error Code: 1146. Table 'library.book_lending' doesn't exist	0.000 sec
22	09:47:58	select * from book_loans LIMIT 0, 2000	0 row(s) returned	0.000 sec / 0.000 sec
23	09:57:17	insert into publisher values ('Mcgraw-Hill', 'Bangalore', 9989076587), ('Pearson', 'New Delhi', 9889076505), ('Random House', 'Hyderabad', 7455679345), ('Hachette Livre', 'Chennai', 8970862340), ('Gruppo Planeta', 'Bangalore', 7756120238);	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
24	09:57:36	select * from publisher LIMIT 0, 2000	5 row(s) returned	0.000 sec / 0.000 sec
25	10:03:45	insert into book values (1,'DBMS', 'Mcgraw-Hill', 'Jan-2017'), (2,'ADBMS', 'Mcgraw-Hill', 'Jun-2016'), (3,'CN', 'Pearson', 'Sep-2016'), (4,'CG', 'Gruppo Planeta', 'Sep-2015'), (5,'OS', 'Pearson', 'May-2016'), (6,'Art of living', 'Pearson', 'May-2018');	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.156 sec
26	10:03:49	select * from book LIMIT 0, 2000	6 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigatator: Query 1 SQL File 3... Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr... Local instance MySQL80

MANA: 88 values (1,'Navathe'), (2,'Navathe'), (3,'Tanenbaum'), (4,'Edward Angel'), (5,'Galvin'), (6,'Stephen King');
INSTAN: 94
95 • select * from book_authors;

Result Grid | Filter Rows: Limit to 2000 rows | Edit | Export/Import: Wrap Cell Content:

book_id	author_name
1	Navathe
2	Navathe
3	Tanenbaum
4	Edward Angel
5	Galvin
6	Stephen King
...	...

book_authors 11 x

Output: Action Output

#	Time	Action	Message	Duration / Fetch
23	09:57:17	insert into publisher values ('Mcgraw-Hill','Bangalore'),(Pearson','New Delhi',3889076587), (Random House',...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
24	09:57:36	select * from publisher LIMIT 0, 2000	5 row(s) returned	0.000 sec / 0.000 sec
25	10:03:45	insert into book values (1,DBMS,'Mcgraw-Hill',Jan-2017), (2,ADBMS,'Mcgraw-Hill',Jun-2016), (3,CN,Pearson',Sep-20...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.156 sec
26	10:03:49	select * from book LIMIT 0, 2000	6 row(s) returned	0.000 sec / 0.000 sec
27	10:06:52	insert into book_authors values (1,Navathe), (2,Navathe), (3,Tanenbaum), (4,Edward Angel), (5, Galvin), ...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.015 sec
28	10:07:04	select * from book_authors LIMIT 0, 2000	6 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigatator: Query 1 SQL File 3... Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr... Local instance MySQL80

MANA: 98 values (10,'RR Nagar','Bangalore'), (11,'Ksnit','Bangalore'), (12,'Rajai Nagar','Bangalore'), (13,'Nitte','Mangalore'), (14,'Manipal','Udupi'), (15,'Townhall','US'), (16,'Central','US');

INSTAN: 104
105 • select * from library_branch;

Result Grid | Filter Rows: Limit to 2000 rows | Edit | Export/Import: Wrap Cell Content:

branch_id	branch_name	address
10	RR Nagar	Bangalore
11	Rnkt	Bangalore
12	Rajai Nagar	Bangalore
13	Nitte	Mangalore
14	Manipal	Udupi
15	Townhall	US
16	Central	US
...

library_branch 12 x

Output: Action Output

#	Time	Action	Message	Duration / Fetch
25	10:03:45	insert into book values (1,DBMS,'Mcgraw-Hill',Jan-2017), (2,ADBMS,'Mcgraw-Hill',Jun-2016), (3,CN,Pearson',Sep-20...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.156 sec
26	10:03:49	select * from book LIMIT 0, 2000	6 row(s) returned	0.000 sec / 0.000 sec
27	10:06:52	insert into book_authors values (1,Navathe), (2,Navathe), (3,Tanenbaum), (4,Edward Angel), (5, Galvin), ...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.015 sec
28	10:07:04	select * from book_authors LIMIT 0, 2000	6 row(s) returned	0.000 sec / 0.000 sec
29	10:10:21	insert into library_branch values (10,RR Nagar','Bangalore'), (11,Rnkt','Bangalore'), (12,Rajai Nagar','Bangalore'), (1...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.047 sec
30	10:10:33	select * from library_branch LIMIT 0, 2000	7 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (lib...)

File Edit View Query Database Server Tools Scripting Help

Navigat... Query 1 SQL File 3... Limit to 2000 rows

MANA : 111 (5,12,13),
112 (3,13,14),
113 (1,11,10),
114 (3,14,11),
115 (6,16,5),

INSTA : book_id branch_id no_of_copies

book_id	branch_id	no_of_copies
1	11	10
1	15	8
2	12	12
2	15	8
3	13	14
3	14	11
4	10	10
5	10	11
5	12	13
6	16	5

book_copies 13 x

Output :

Action Output

#	Time	Action	Message	Duration / Fetch
27	10:06:52	insert into book_authors values (1,'Navathe'), (2,'Navathe'), (3,'Tenenbaum'), (4,'Edward Angel'), (5,'Galvin'),	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.015 sec
28	10:07:04	select * from book_authors LIMIT 0, 2000	6 row(s) returned	0.000 sec / 0.000 sec
29	10:10:21	insert into library_branch values (10,'RR Nagar','Bangalore'), (11,'Rnrt','Bangalore'), (12,'Rajaj Nagar','Bangalore'),	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.047 sec
30	10:10:33	select * from library_branch LIMIT 0, 2000	7 row(s) returned	0.000 sec / 0.000 sec
31	10:13:45	insert into book_copies values (4,10,10), (5,10,11), (2,12,12), (5,12,13), (3,13,14), (1,11,10), (3,14,11),	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
32	10:13:49	select * from book_copies LIMIT 0, 2000	10 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (lib...)

File Edit View Query Database Server Tools Scripting Help

Navigat... Query 1 SQL File 3... Limit to 2000 rows

MANA : 122 ('102','Ayush','Bangalore','8618519765'),
123 ('103','Hema ','US','8618511543'),
124 ('104','Gagan ','Mangalore ','8618518631'),
125 ('105','Meghana ','Udupi ','9548518254');

INSTA : Result Grid | Filter Rows | Edits | Export/Import | Wrap Cell Content: |

card_no	borrower_name	address	phone
101	Neelam	Bangalore	8618518254
102	Aayush	Bangalore	8618519765
103	Hema	US	8618511543
104	Gagan	Mangalore	8618518631
105	Meghana	Udupi	9548518254

borrower 14 x

Output :

Action Output

#	Time	Action	Message	Duration / Fetch
29	10:10:21	insert into library_branch values (10,'RR Nagar','Bangalore'), (11,'Rnrt','Bangalore'), (12,'Rajaj Nagar','Bangalore'),	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.047 sec
30	10:10:33	select * from library_branch LIMIT 0, 2000	7 row(s) returned	0.000 sec / 0.000 sec
31	10:13:45	insert into book_copies values (4,10,10), (5,10,11), (2,12,12), (5,12,13), (3,13,14), (1,11,10), (3,14,11),	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
32	10:13:49	select * from book_copies LIMIT 0, 2000	10 row(s) returned	0.000 sec / 0.000 sec
33	10:17:26	insert into borrower values (101,'Neelam ','Bangalore ','8618518254'), (102,'Aayush ','Bangalore ','8618519765'), (103,'Hema ',	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
34	10:17:38	select * from borrower LIMIT 0, 2000	5 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (lib...)

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* Limit to 2000 rows

Manager 138 (1, 11, 104, '2017-04-12', '2017-05-12'),
139 (4, 15, 102, '2021-06-05', '2021-07-19'),
140 (6, 15, 103, '2021-06-22', '2021-07-25');
141
142 * select * from book_loans;

Result Grid Filter Rows Edit Export/Import Wrap Cell Content

INSTANT

book_id	branch_id	card_no	date_out	due_date
1	10	101	2017-01-01	2017-01-06
1	11	104	2017-04-12	2017-05-12
2	10	101	2017-01-01	2017-01-06
2	13	103	2017-02-21	2017-04-21
3	10	101	2017-01-01	2017-01-06
3	14	105	2017-01-01	2017-01-11
4	10	101	2017-01-01	2017-01-06
4	11	101	2017-03-15	2017-07-15
4	15	102	2021-06-25	2021-07-10
5	10	101	2017-01-01	2017-01-06
6	10	101	2017-01-01	2017-01-06
6	15	103	2021-06-22	2021-07-25

book_loans 15

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	10:13:49	select * from book_copies LIMIT 0, 2000	10 row(s) returned	0.000 sec / 0.000 sec
33	10:17:26	insert into borrower values (101,'Neelam','Bangalore','8618518254'),(102,'Aayush','Bangalore','8618519765),(103,'Hema','...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
34	10:17:38	select * from borrower LIMIT 0, 2000	5 row(s) returned	0.000 sec / 0.000 sec
35	10:23:12	insert into book_lending values (1, 10, 101,2017-01-01,2017-01-06), (2, 10, 101,2017-01-01,2017-01-06), (3, 10, 101,2017-01-01,2017-01-06), (4, 10, 101,2017-01-01,2017-01-06), (5, 10, 101,2017-01-01,2017-01-06), (6, 10, 101,2017-01-01,2017-01-06), (7, 10, 101,2017-01-01,2017-01-06), (8, 10, 101,2017-01-01,2017-01-06), (9, 10, 101,2017-01-01,2017-01-06), (10, 10, 101,2017-01-01,2017-01-06), (11, 10, 101,2017-01-01,2017-01-06), (12, 10, 101,2017-01-01,2017-01-06), (13, 10, 101,2017-01-01,2017-01-06), (14, 10, 101,2017-01-01,2017-01-06), (15, 10, 101,2017-01-01,2017-01-06), (16, 10, 101,2017-01-01,2017-01-06), (17, 10, 101,2017-01-01,2017-01-06), (18, 10, 101,2017-01-01,2017-01-06), (19, 10, 101,2017-01-01,2017-01-06), (20, 10, 101,2017-01-01,2017-01-06), (21, 10, 101,2017-01-01,2017-01-06), (22, 10, 101,2017-01-01,2017-01-06), (23, 10, 101,2017-01-01,2017-01-06), (24, 10, 101,2017-01-01,2017-01-06), (25, 10, 101,2017-01-01,2017-01-06), (26, 10, 101,2017-01-01,2017-01-06), (27, 10, 101,2017-01-01,2017-01-06), (28, 10, 101,2017-01-01,2017-01-06), (29, 10, 101,2017-01-01,2017-01-06), (30, 10, 101,2017-01-01,2017-01-06), (31, 10, 101,2017-01-01,2017-01-06), (32, 10, 101,2017-01-01,2017-01-06), (33, 10, 101,2017-01-01,2017-01-06), (34, 10, 101,2017-01-01,2017-01-06), (35, 10, 101,2017-01-01,2017-01-06), (36, 10, 101,2017-01-01,2017-01-06), (37, 10, 101,2017-01-01,2017-01-06)	0.000 sec	
36	10:23:24	insert into book_loans values (1, 10, 101,2017-01-01,2017-01-06), (2, 10, 101,2017-01-01,2017-01-06), (3, 10, 101,2017-01-01,2017-01-06), (4, 10, 101,2017-01-01,2017-01-06), (5, 10, 101,2017-01-01,2017-01-06), (6, 10, 101,2017-01-01,2017-01-06), (7, 10, 101,2017-01-01,2017-01-06), (8, 10, 101,2017-01-01,2017-01-06), (9, 10, 101,2017-01-01,2017-01-06), (10, 10, 101,2017-01-01,2017-01-06), (11, 10, 101,2017-01-01,2017-01-06), (12, 10, 101,2017-01-01,2017-01-06), (13, 10, 101,2017-01-01,2017-01-06), (14, 10, 101,2017-01-01,2017-01-06), (15, 10, 101,2017-01-01,2017-01-06), (16, 10, 101,2017-01-01,2017-01-06), (17, 10, 101,2017-01-01,2017-01-06), (18, 10, 101,2017-01-01,2017-01-06), (19, 10, 101,2017-01-01,2017-01-06), (20, 10, 101,2017-01-01,2017-01-06), (21, 10, 101,2017-01-01,2017-01-06), (22, 10, 101,2017-01-01,2017-01-06), (23, 10, 101,2017-01-01,2017-01-06), (24, 10, 101,2017-01-01,2017-01-06), (25, 10, 101,2017-01-01,2017-01-06), (26, 10, 101,2017-01-01,2017-01-06), (27, 10, 101,2017-01-01,2017-01-06), (28, 10, 101,2017-01-01,2017-01-06), (29, 10, 101,2017-01-01,2017-01-06), (30, 10, 101,2017-01-01,2017-01-06), (31, 10, 101,2017-01-01,2017-01-06), (32, 10, 101,2017-01-01,2017-01-06), (33, 10, 101,2017-01-01,2017-01-06), (34, 10, 101,2017-01-01,2017-01-06), (35, 10, 101,2017-01-01,2017-01-06), (36, 10, 101,2017-01-01,2017-01-06), (37, 10, 101,2017-01-01,2017-01-06)	0.016 sec	
37	10:23:39	select * from book_loans LIMIT 0, 2000	12 row(s) returned	0.094 sec / 0.000 sec

Query Completed

62% 4 10:23 AM 10-07-2021

QUERIES:

```
1) SELECT B.borrower_name, B.address, COUNT(*)  
FROM borrower B, book_loans L  
WHERE B.card_no = L.card_no  
GROUP BY B.card_no  
HAVING COUNT(*) > 5;
```

The screenshot shows the MySQL Workbench interface with three tabs open: Local instance MySQL80, Local instance MySQL80, and Local instance MySQL80 (lib...). The central pane displays the SQL editor with the following query:

```
147 • SELECT B.borrower_name, B.address, COUNT(*)  
148 FROM borrower B, book_loans L  
149 WHERE B.card_no = L.card_no  
150 GROUP BY B.card_no  
151 HAVING COUNT(*) > 5;
```

The results pane shows a single row of data:

borrower_name	address	COUNT(*)
Neelam	Bangalore	7

The bottom pane shows the log with the following entries:

Action	Time	Action	Message	Duration / Fetch
37	10:23:39	select * from book_loans LIMIT 0, 2000	12 row(s) returned	0.094 sec / 0.000 sec
38	10:25:49	SELECT B.Name, B.Address, COUNT(*) FROM BORROWER B, BOOK_LOANS L WHERE B.CardNo = L.CardNo GROUP BY B...	Error Code: 1054. Unknown column 'B.Name' in field list'	0.000 sec
39	10:26:09	SELECT B.borrower_name, B.Address, COUNT(*) FROM BORROWER B, BOOK_LOANS L WHERE B.CardNo = L.CardNo G...	Error Code: 1054. Unknown column 'B.borrower_name' in field list'	0.000 sec
40	10:26:16	SELECT B.borrower_name, B.Address, COUNT(*) FROM BORROWER B, BOOK_LOANS L WHERE B.CardNo = L.CardNo ...	Error Code: 1054. Unknown column 'B.CardNo' in 'where clause'	0.000 sec
41	10:27:09	SELECT B.borrower_name, B.Address, COUNT(*) FROM borrower B, book_loans L WHERE B.card_no = L.card_no GROUP...	1 row(s) returned	0.000 sec / 0.000 sec
42	10:27:24	SELECT B.borrower_name, B.Address, COUNT(*) FROM borrower B, book_loans L WHERE B.card_no = L.card_no GROUP...	1 row(s) returned	0.000 sec / 0.000 sec

2)

```
SELECT title, no_of_copies  
FROM ( (book_authors NATURAL JOIN book)  
NATURAL JOIN book_copies)  
NATURAL JOIN library_branch)  
WHERE author_name = 'Stephen King' and branch_name = 'Central';
```

The screenshot shows the MySQL Workbench interface. In the Query Editor, a query is displayed:

```

154 • SELECT title, no_of_copies
155   FROM ((book_authors NATURAL JOIN book)
156       NATURAL JOIN book_copies)
157       NATURAL JOIN library_branch)
158 WHERE author_name = 'Stephen King' and branch_name = 'Central';

```

The Result Grid shows the output:

title	no_of_copies
Art of living	5

The Output pane shows the execution history:

Action	Time	Action	Message	Duration / Fetch
39	10:26:09	SELECT B.borrower_name, B.Address, COUNT(*) FROM BORROWER B, BOOK_LOANS L WHERE B.CardNo = L.CardNo GROUP BY B.CardNo, B.Address, COUNT(*)	Error Code: 1054. Unknown column 'B.borrower_name' in field list'	0.000 sec
40	10:26:16	SELECT B.borrower_name, B.Address, COUNT(*) FROM BORROWER B, BOOK_LOANS L WHERE B.CardNo = L.CardNo ...	Error Code: 1054. Unknown column 'B.CardNo' in 'where clause'	0.000 sec
41	10:27:09	SELECT B.borrower_name, B.Address, COUNT(*) FROM borrower B, book_loans L WHERE B.card_no = L.card_no GROUP BY B.card_no, B.Address, COUNT(*)	1 row(s) returned	0.000 sec / 0.000 sec
42	10:27:24	SELECT B.borrower_name, B.Address, COUNT(*) FROM borrower B, book_loans L WHERE B.card_no = L.card_no GROUP BY B.card_no, B.Address, COUNT(*)	1 row(s) returned	0.000 sec / 0.000 sec
43	10:30:23	SELECT title, no_of_copies FROM ((book_authors NATURAL JOIN book) NATURAL JOIN book_copies) NATURAL JOIN library_branch	1 row(s) returned	0.000 sec / 0.000 sec
44	10:31:14	SELECT title, no_of_copies FROM ((book_authors NATURAL JOIN book) NATURAL JOIN book_copies) NATURAL JOIN library_branch	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

3)

`SELECT B.borrower_name`

`FROM borrower B`

`WHERE B.card_no NOT IN(`

`SELECT B.card_no`

`FROM book_loans L`

`WHERE B.card_no = L.card_no`

`);`

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigation: Query 1 SQL File 3 Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr...
MANA
157 NATURAL JOIN library_branch)
158 WHERE author_name = 'Stephen King' and branch_name = 'Central';
159
160 #q3
161 • SELECT B.borrower_name
<
INSTA
Result Grid Filter Rows Export Wrap Cell Content: T
borrower_name
Meghana
Information
Result Grid Form Editor Field Types Query Stats
SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Read Only Context Help Snippets
Output
Action Output
# Time Action Message Duration / Fetch
48 10:38:50 SELECT B.borrower_name FROM borrower B WHERE NOT EXIST IN ( SELECT * FROM book_loans L WHERE B.card_no ... Error Code: 1054. Unknown column 'EXIST' in 'IN/ALL/ANY subquery' 0.000 sec
49 10:44:59 SELECT B.title, R.borrower_name, R.address FROM book B, borrower R, book_loans BL, library_branch LB WHERE LB.branch_name = 'Central' AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id Error Code: 1054. Unknown column 'EXIST' in 'IN/ALL/ANY subquery' 0.125 sec
50 10:45:23 SELECT B.title, R.borrower_name, R.address FROM book B, borrower R, book_loans BL, library_branch LB WHERE LB.branch_name = 'Central' AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id 1 row(s) returned 0.000 sec / 0.000 sec
51 10:46:21 SELECT B.title, R.borrower_name, R.address FROM book B, borrower R, book_loans BL, library_branch LB WHERE LB.branch_name = 'Central' AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id 1 row(s) returned 0.000 sec / 0.000 sec
52 10:51:44 SELECT B.borrower_name FROM borrower B WHERE B.card_no NOT IN (SELECT B.card_no FROM book_loans L WHERE L.branch_name = 'Central') AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id 1 row(s) returned 0.000 sec / 0.000 sec
53 10:52:03 SELECT B.borrower_name FROM borrower B WHERE B.card_no NOT IN (SELECT B.card_no FROM book_loans L WHERE L.branch_name = 'Central') AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id 1 row(s) returned 0.000 sec / 0.000 sec
< > #q3
Query Completed

```

4)

`SELECT B.title, R.borrower_name, R.address`

`FROM book B, borrower R, book_loans BL, library_branch LB`

`WHERE LB.branch_name='Townhall' AND LB.branch_id=BL.branch_id AND`

`BL.due_date='2021-07-10' AND BL.card_no=R.card_no AND`

`BL.book_id=B.book_id;`

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigation: Query 1 SQL File 3 Local instance MySQL80 Local instance MySQL80 Local instance MySQL80 (libr...
MANA
169 #q4
170 • SELECT B.title, R.borrower_name, R.address
171 FROM book B, borrower R, book_loans BL, library_branch LB
172 WHERE LB.branch_name='Townhall' AND LB.branch_id=BL.branch_id AND
173 BL.due_date='2021-07-10' AND BL.card_no=R.card_no AND BL.book_id=B.book_id
<
INSTA
Result Grid Filter Rows Export Wrap Cell Content: T
title borrower_name address
CG Aayush Bangalore
Information
Result Grid Form Editor Field Types Query Stats
SQLAdditions
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Read Only Context Help Snippets
Output
Action Output
# Time Action Message Duration / Fetch
46 10:35:45 SELECT B.borrower_name FROM borrower B WHERE NOT EXIST ( SELECT B.borrower_name FROM book_loans L WHERE B.card_no ... Error Code: 1054. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for ... 0.000 sec
47 10:38:39 SELECT B.borrower_name FROM borrower B WHERE NOT EXIST IN ( SELECT B.borrower_name FROM book_loans L WHERE B.card_no ... Error Code: 1054. Unknown column 'EXIST' in 'IN/ALL/ANY subquery' 0.000 sec
48 10:38:50 SELECT B.borrower_name FROM borrower B WHERE NOT EXIST IN ( SELECT * FROM book_loans L WHERE B.card_no ... Error Code: 1054. Unknown column 'EXIST' in 'IN/ALL/ANY subquery' 0.000 sec
49 10:44:59 SELECT B.title, R.borrower_name, R.address FROM book B, borrower R, book_loans BL, library_branch LB WHERE LB.branch_name = 'Townhall' AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id Error Code: 1054. Unknown column 'EXIST' in 'IN/ALL/ANY subquery' 0.125 sec
50 10:45:23 SELECT B.title, R.borrower_name, R.address FROM book B, borrower R, book_loans BL, library_branch LB WHERE LB.branch_name = 'Townhall' AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id 1 row(s) returned 0.000 sec / 0.000 sec
51 10:46:21 SELECT B.title, R.borrower_name, R.address FROM book B, borrower R, book_loans BL, library_branch LB WHERE LB.branch_name = 'Townhall' AND B.book_id = BL.book_id AND B.card_no = R.card_no AND BL.due_date = '2021-07-10' AND BL.book_id = B.book_id 1 row(s) returned 0.000 sec / 0.000 sec
< > #q4
Query Completed

```

