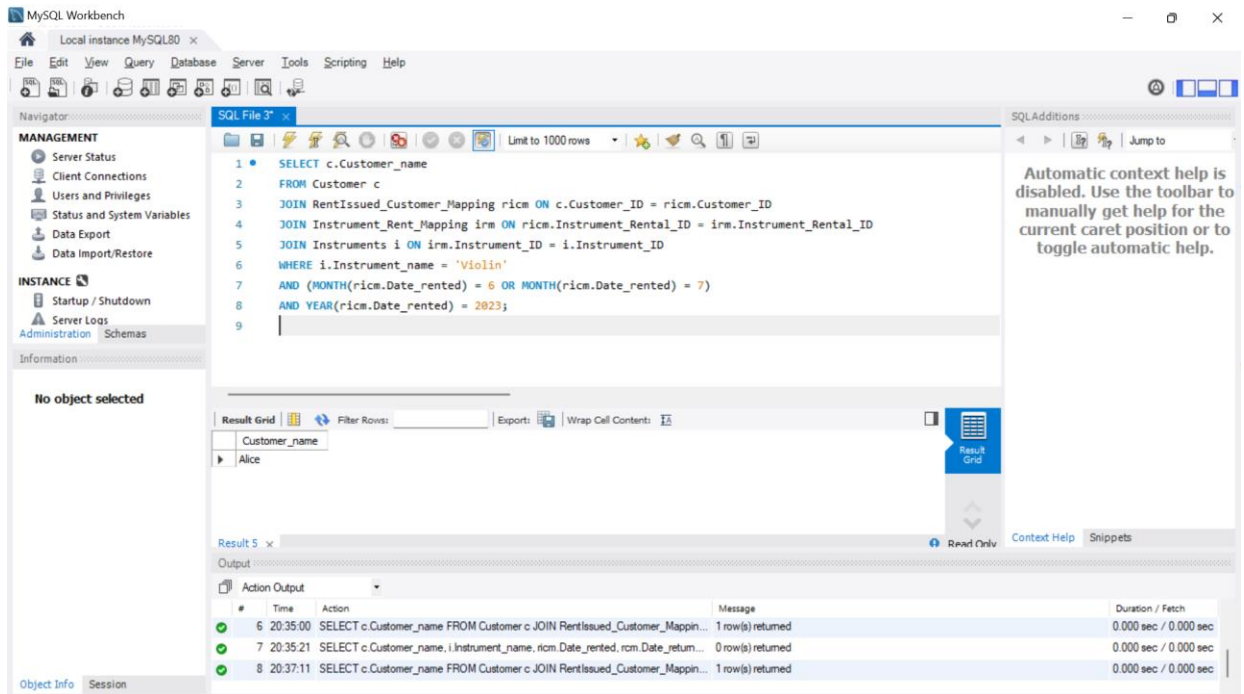


Musical Instrument Rental Management System

- List all the Customer who have taken “Violin” during the month of June and July 2023
- Create a report of all the Customer who have taken rent during September. This should include the type of instrument,date taken and date returned.

a.



The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following query:

```
1 SELECT c.Customer_name
2 FROM Customer c
3 JOIN RentIssued_Customer_Mapping ricm ON c.Customer_ID = ricm.Customer_ID
4 JOIN Instrument_Rent_Mapping irm ON ricm.Instrument_Rental_ID = irm.Instrument_Rental_ID
5 JOIN Instruments i ON irm.Instrument_ID = i.Instrument_ID
6 WHERE i.Instrument_name = 'Violin'
7 AND (MONTH(ricm.Date_rented) = 6 OR MONTH(ricm.Date_rented) = 7)
8 AND YEAR(ricm.Date_rented) = 2023;
9
```

The Results window shows the output of the query, which is a single row with the customer name 'Alice'.

Customer_name
Alice

The Output window shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
6	20:35:00	SELECT c.Customer_name FROM Customer c JOIN RentIssued_Customer_Mapping...	1 row(s) returned	0.000 sec / 0.000 sec
7	20:35:21	SELECT c.Customer_name, i.Instrument_name, ricm.Date_rented, rcm.Date_return...	0 row(s) returned	0.000 sec / 0.000 sec
8	20:37:11	SELECT c.Customer_name FROM Customer c JOIN RentIssued_Customer_Mapping...	1 row(s) returned	0.000 sec / 0.000 sec

b.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

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- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Administration Schemas

Information

No object selected

SQL File 3

```
1 SELECT c.Customer_name, i.Instrument_name, rcm.Date_rented, rcm.Date_returned
2 FROM Customer c
3 JOIN RentIssued_Customer_Mapping rcm ON c.Customer_ID = rcm.Customer_ID
4 JOIN RentReturned_Customer_Mapping rcm ON rcm.Rent_issue_ID = rcm.Rent_issue_ID
5 JOIN Instrument_Rent_Mapping irm ON rcm.Instrument_Rental_ID = irm.Instrument_Rental_ID
6 JOIN Instruments i ON irm.Instrument_ID = i.Instrument_ID
7 WHERE MONTH(rcm.Date_rented) = 9 AND YEAR(rcm.Date_rented) = 2023;
8
```

Result Grid

Customer_name	Instrument_name	Date_rented	Date_returned
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Result 4

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	20:34:11	SELECT c.Customer_name, i.Instrument_name, rcm.Date_rented, rcm.Date_return...	0 row(s) returned	0.000 sec / 0.000 sec
6	20:35:00	SELECT c.Customer_name FROM Customer c JOIN RentIssued_Customer_Mappin...	1 row(s) returned	0.000 sec / 0.000 sec
7	20:35:21	SELECT c.Customer_name, i.Instrument_name, rcm.Date_rented, rcm.Date_return...	0 row(s) returned	0.000 sec / 0.000 sec

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