

STEPS

The screenshot shows the SSMS interface with the following details:

- Schemas:** The left pane shows the schema tree with entries like `entri_dsmi_d36` and `library`.
- Query Editor:** The main window contains the following T-SQL code:


```

1 # Library management system
2 • create database library;
3 • use library;
```
- Output Window:** The bottom pane displays the execution results:

#	Time	Action	Message
1	21:49:13	create database library	1 row(s) affected
2	21:49:20	use library	0 row(s) affected

The screenshot shows the SSMS interface with the following details:

- Schemas:** The left pane shows the schema tree with entries like `entri_dsmi_d36` and `library`.
- Query Editor:** The main window contains the following T-SQL code:


```

3 • create database library;
4 • use library;
5
6
7 • CREATE TABLE Branch (
8     Branch_no INT PRIMARY KEY,
9     Manager_Id INT,
10    Branch_address VARCHAR(255),
11    Contact_no VARCHAR(15)
12 );
13
14 • INSERT INTO Branch ( Branch_no, Manager_Id, Branch_address, Contact_no) VALUES
15     (1, 201, '123 Main St, Downtown, New Delhi, 110001', '9876543210'),
16     (2, 202, '456 Oak St, Central Park, Mumbai, 400001', '9876543222');
```
- Output Window:** The bottom pane displays the execution results:

#	Time	Action	Message
1	22:34:55	use library	0 row(s) affected
2	22:35:00	CREATE TABLE Branch (Branch_no INT PRIMARY KEY, Manager_Id INT, B...)	0 row(s) affected

File Edit View Query Database Server Tools Scripting Help

Navigator: LIBRARY MANAGEMENT SYS... Query 1 TRIGGERS

CHEMOS

- Filter objects
- entri_dsmi_d36
 - Tables
 - teacher_log
 - teachers
 - Views
 - Stored Procedures
 - Functions
- library
 - Tables
 - branch
 - Views
 - Stored Procedures
 - Functions
- administration Schemas
- Information

No object selected

Query 1: LIBRARY MANAGEMENT SYS... (TRIGGERS)

```

8     Branch_no INT PRIMARY KEY,
9     Manager_Id INT,
10    Branch_address VARCHAR(255),
11    Contact_no VARCHAR(15)
12  );
13
14 •  INSERT INTO Branch ( Branch_no, Manager_Id, Branch_address, Contact_no) VALUES
15  (1, 201, '123 Main St, Downtown, New Delhi, 110001', '9876543210'),
16  (2, 202, '456 Oak St, Central Park, Mumbai, 400001', '9876543222'),
17  (3, 203, '789 Pine St, MG Road, Bengaluru, 560001', '9876543233'),
18  (4, 204, '987 Cedar St, Whitefield, Hyderabad, 500001', '9876543244'),
19  (5, 205, '654 Maple St, Anna Nagar, Chennai, 600040', '9876543255');
20
21 •  SELECT * FROM Branch;

```

Output:

Action Output	#	Time	Action	Message
1 22:34:55 use library				0 row(s) affected
2 22:35:00 CREATE TABLE Branch (Branch_no INT PRIMARY KEY, Manager_Id INT, B...				0 row(s) affected
3 22:35:28 INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALU...				5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0

File Edit View Query Database Server Tools Scripting Help

Navigator: LIBRARY MANAGEMENT SYS... Query 1 TRIGGERS

CHEMOS

- Filter objects
- entri_dsmi_d36
 - Tables
 - teacher_log
 - teachers
 - Views
 - Stored Procedures
 - Functions
- library
 - Tables
 - branch
 - Views
 - Stored Procedures
 - Functions
- administration Schemas
- Information

No object selected

Query 1: LIBRARY MANAGEMENT SYS... (TRIGGERS)

```

17  (3, 203, '789 Pine St, MG Road, Bengaluru, 560001', '9876543233'),
18  (4, 204, '987 Cedar St, Whitefield, Hyderabad, 500001', '9876543244'),
19  (5, 205, '654 Maple St, Anna Nagar, Chennai, 600040', '9876543255');
20
21 •  SELECT * FROM Branch;

```

Result Grid:

Branch_no	Manager_Id	Branch_address	Contact_no
1	201	123 Main St, Downtown, New Delhi, 110001	9876543210
2	202	456 Oak St, Central Park, Mumbai, 400001	9876543222
3	203	789 Pine St, MG Road, Bengaluru, 560001	9876543233
4	204	987 Cedar St, Whitefield, Hyderabad, 500001	9876543244
5	205	654 Maple St, Anna Nagar, Chennai, 600040	9876543255
HULL	HULL	HULL	HULL

Output:

Action Output	#	Time	Action	Message
1 22:34:55 use library				0 row(s) affected
2 22:35:00 CREATE TABLE Branch (Branch_no INT PRIMARY KEY, Manager_Id INT, B...				0 row(s) affected
3 22:35:28 INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALU...				5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
4 22:35:42 SELECT * FROM Branch LIMIT 0, 1000				5 row(s) returned

Navigator TRIGGERS LIBRARY MANAGEMENT SYS... X

```

26     Position VARCHAR(100),
27     Salary DECIMAL(10, 2),
28     Branch_no INT,
29     FOREIGN KEY (Branch_no) REFERENCES Branch (Branch_no)
30   );
31
32 • INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES
33   (201, 'Alice Smith', 'Manager', 80000, 1),
34   (202, 'Bob Johnson', 'Assistant Manager', 60000, 2),
35   (203, 'Charlie Davis', 'Manager', 75000, 3),
36   (204, 'Eve Thompson', 'Clerk', 30000, 1),
37   (205, 'Frank White', 'Clerk', 55000, 2),
38   (206, 'Grace Lee', 'Clerk', 45000, 3),
39   (207, 'Henry Walker', 'Clerk', 52000, 4),

```

No object selected

Output:

Action Output
Time Action Message
1 22:34:55 use library 0 row(s) affected
2 22:35:00 CREATE TABLE Branch (Branch_no INT PRIMARY KEY, Manager_Id INT, ... 0 row(s) affected
3 22:35:28 INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VAL... 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
4 22:35:42 SELECT * FROM Branch LIMIT 0,1000 5 row(s) returned
5 22:36:07 CREATE TABLE Employee (Emp_Id INT PRIMARY KEY, Emp_name VARCHAR... 0 row(s) affected

Navigator TRIGGERS LIBRARY MANAGEMENT SYS... X

```

32 • INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES
33   (201, 'Alice Smith', 'Manager', 80000, 1),
34   (202, 'Bob Johnson', 'Assistant Manager', 60000, 2),
35   (203, 'Charlie Davis', 'Manager', 75000, 3),
36   (204, 'Eve Thompson', 'Clerk', 30000, 1),
37   (205, 'Frank White', 'Clerk', 55000, 2),
38   (206, 'Grace Lee', 'Clerk', 45000, 3),
39   (207, 'Henry Walker', 'Clerk', 52000, 4),
40   (208, 'Ivy Adams', 'Manager', 90000, 4),
41   (209, 'Jack Evans', 'Assistant Manager', 70000, 5);
42
43 • SELECT * FROM Employee;
44
45 • CREATE TABLE Books (

```

No object selected

Output:

Action Output
Time Action Message Du
1 22:34:55 use library 0 row(s) affected 0.0
2 22:35:00 CREATE TABLE Branch (Branch_no INT PRIMARY KEY, Manager_Id INT, ... 0 row(s) affected 0.0
3 22:35:28 INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VAL... 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0 0.0
4 22:35:42 SELECT * FROM Branch LIMIT 0,1000 5 row(s) returned 0.0
5 22:36:07 CREATE TABLE Employee (Emp_Id INT PRIMARY KEY, Emp_name VARCHAR... 0 row(s) affected 0.0
6 22:36:40 INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES... 9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0 0.0

SQLAdditions... Context Help Snippets

Automatic context disabled. Use the toolbar to manually get help current caret position toggle automatic

Library Management System

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... X

Limit to 1000 rows

```

39  (207, 'Henry Walker', 'Clerk', 52000, 4),
40  (208, 'Ivy Adams', 'Manager', 90000, 4),
41  (209, 'Jack Evans', 'Assistant Manager', 70000, 5);
42
43 • SELECT * FROM Employee;
44

```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Apply Context Help Snippets

Emp_Id	Emp_name	Position	Salary	Branch_no
201	Alice Smith	Manager	80000.00	1
202	Bob Johnson	Assistant Manager	60000.00	2
203	Charlie Davis	Manager	75000.00	3
204	Eve Thompson	Clerk	30000.00	1
205	Frank White	Clerk	55000.00	2
206	Grace Lee	Clerk	45000.00	3

No object selected

Employee 3 x

Output:

#	Time	Action	Message	Duration
1	22:35:00	CREATE TABLE Branch (Branch_no INT PRIMARY KEY, Manager_Id INT, ...)	0 row(s) affected	0.031
2	22:35:28	INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALUES ('1234567890', 'The History of Time', 'History', 40, 'Yes', 'Stephen Hawking', 'Penguin')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016
3	22:35:42	SELECT * FROM Branch LIMIT 0, 1000	5 row(s) returned	0.000
4	22:36:07	CREATE TABLE Employee (Emp_Id INT PRIMARY KEY, Emp_name VARCHAR(100), Position VARCHAR(100), Salary DECIMAL(10, 2), Status VARCHAR(3), Author VARCHAR(100), Publisher VARCHAR(100))	0 row(s) affected	0.062
5	22:36:40	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES ('207', 'Henry Walker', 'Clerk', 52000, 4), ('208', 'Ivy Adams', 'Manager', 90000, 4), ('209', 'Jack Evans', 'Assistant Manager', 70000, 5)	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.047
6	22:36:56	SELECT * FROM Employee LIMIT 0, 1000	9 row(s) returned	0.000

Script Info Session

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... X

Limit to 1000 rows

```

49  Rental_Price DECIMAL(10, 2),
50  Status VARCHAR(3),
51  Author VARCHAR(100),
52  Publisher VARCHAR(100)
53  );
54
55 • INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES
56  ('1234567890', 'The History of Time', 'History', 40, 'Yes', 'Stephen Hawking', 'Penguin'),
57  ('1234567891', 'Science Revolution', 'Science', 50, 'Yes', 'Isaac Newton', 'HarperCollins'),
58  ('1234567892', 'The Art of War', 'History', 30, 'No', 'Sun Tzu', 'Random House'),
59  ('1234567893', 'Quantum Physics', 'Science', 60, 'Yes', 'Niels Bohr', 'Springer'),
60  ('1234567894', 'World War II', 'History', 45, 'No', 'John Keegan', 'Oxford Press'),
61  ('1234567895', 'The History of Ancient Rome', 'History', 35, 'Yes', 'Mary Beard', 'Penguin'),
62  ('1234567896', 'Astrophysics Explained', 'Science', 70, 'No', 'Neil deGrasse Tyson', 'Random House')

```

object selected

Books 3 x

Output:

#	Time	Action	Message
1	22:35:28	INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALUES ('1234567890', 'The History of Time', 'History', 40, 'Yes', 'Stephen Hawking', 'Penguin')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
2	22:35:42	SELECT * FROM Branch LIMIT 0, 1000	5 row(s) returned
3	22:36:07	CREATE TABLE Employee (Emp_Id INT PRIMARY KEY, Emp_name VARCHAR(100), Position VARCHAR(100), Salary DECIMAL(10, 2), Status VARCHAR(3), Author VARCHAR(100), Publisher VARCHAR(100))	0 row(s) affected
4	22:36:40	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES ('207', 'Henry Walker', 'Clerk', 52000, 4), ('208', 'Ivy Adams', 'Manager', 90000, 4), ('209', 'Jack Evans', 'Assistant Manager', 70000, 5)	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0
5	22:36:56	SELECT * FROM Employee LIMIT 0, 1000	9 row(s) returned
6	22:37:14	CREATE TABLE Books (ISBN VARCHAR(13) PRIMARY KEY, Book_title VA...)	0 row(s) affected

Info Session

Navigator: LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

MAS

ter objects

- ▶ teachers
- ▶ Views
- ▶ Stored Procedures
- ▶ Functions
- library**
- ▶ Tables
 - ▶ books
 - ▶ branch
 - ▶ employee
- ▶ Views
- ▶ Stored Procedures
- ▶ Functions
- product
- ▶ ...

Administration Schemas

object selected

Output

Action Output

#	Time	Action	Message
4	22:35:42	SELECT * FROM Branch LIMIT 0, 1000	5 row(s) returned
5	22:36:07	CREATE TABLE Employee (Emp_Id INT PRIMARY KEY, Emp_name VARCHAR...)	0 row(s) affected
6	22:36:40	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES ('1234567890', 'Stephen Hawking', 'History', 40, 'Yes')	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0
7	22:36:56	SELECT * FROM Employee LIMIT 0, 1000	9 row(s) returned
8	22:37:14	CREATE TABLE Books (ISBN VARCHAR(13) PRIMARY KEY, Book_title VA...)	0 row(s) affected
9	22:38:00	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES ('1234567891', 'The History of Time', 'History', 40, 'Yes', 'Stephen Hawking', 'Penguin')	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0

Context Help Snippets

SQLAdditions:

Automatic context help disabled. Use the tool tip to manually get help for current caret position toggle automatic help

Navigator: LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

HEMAS

Filter objects

- ▶ teachers
- ▶ Views
- ▶ Stored Procedures
- ▶ Functions
- library**
- ▶ Tables
 - ▶ books
 - ▶ branch
 - ▶ employee
- ▶ Views
- ▶ Stored Procedures
- ▶ Functions
- product
- ▶ ...

Administration Schemas

No object selected

Output

Action Output

#	Time	Action	Message
60	'1234567894', 'World War II', 'History', 45, 'No', 'John Keegan', 'Oxford Press'		
61	'1234567895', 'The History of Ancient Rome', 'History', 35, 'Yes', 'Mary Beard', 'Penguin'		
62	'1234567896', 'Astrophysics Explained', 'Science', 70, 'No', 'Neil deGrasse Tyson', 'Random House'		
63			
64	SELECT * FROM Books ;		

Result Grid

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
1234567890	The History of Time	History	40.00	Yes	Stephen Hawking	Penguin
1234567891	Science Revolution	Science	50.00	Yes	Isaac Newton	HarperCollins
1234567892	The Art of War	History	30.00	No	Sun Tzu	Random House
1234567893	Quantum Physics	Science	60.00	Yes	Niels Bohr	Springer
1234567894	World War II	History	45.00	No	John Keegan	Oxford Press
1234567895	The History of Ancient Rome	History	35.00	Yes	Mary Beard	Penguin

Books 4

Context Help Snippets

SQLAdditions:

Automatic context help disabled. Use the tool tip to manually get help for current caret position toggle automatic help

Action Output

#	Time	Action	Message	Duration / F
5	22:36:07	CREATE TABLE Employee (Emp_Id INT PRIMARY KEY, Emp_name VARCHAR...)	0 row(s) affected	0.062 sec
6	22:36:40	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES ('1234567890', 'Stephen Hawking', 'History', 40, 'Yes')	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.047 sec
7	22:36:56	SELECT * FROM Employee LIMIT 0, 1000	9 row(s) returned	0.000 sec /
8	22:37:14	CREATE TABLE Books (ISBN VARCHAR(13) PRIMARY KEY, Book_title VA...)	0 row(s) affected	0.031 sec
9	22:38:00	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) VALUES ('1234567891', 'The History of Time', 'History', 40, 'Yes', 'Stephen Hawking', 'Penguin')	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.015 sec
10	22:38:25	SELECT * FROM Books LIMIT 0, 1000	7 row(s) returned	0.000 sec /

Context Help Snippets

Navigator

SCHEMAS

- Filter objects
 - teachers
 - Views
 - Stored Procedures
 - Functions
- library**
 - Tables
 - books
 - branch
 - customer
 - employee
 - Views
 - Stored Procedures
 - Functions

No object selected

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... ×

```

67     Customer_Id INT PRIMARY KEY,
68     Customer_name VARCHAR(100),
69     Customer_address VARCHAR(255),
70     Reg_date DATE
71   );
72
73 •  INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) VALUES
74   (301, 'Emily Brown', '12 Willow St, City A', '2021-12-15'),
75   (302, 'Michael Green', '98 Elm St, City B', '2022-01-20'),
76   (303, 'Sophia Miller', '56 Maple St, City C', '2020-10-05'),
77   (304, 'James Harris', '77 Cedar St, City A', '2021-07-22'),
78   (305, 'Olivia Lewis', '22 Birch St, City B', '2022-06-18');
79
80 •  SELECT *FROM Customer;
  
```

Output

#	Time	Action	Message
6	22:36:40	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0
7	22:36:56	SELECT * FROM Employee LIMIT 0, 1000	9 row(s) returned
8	22:37:14	CREATE TABLE Books (ISBN VARCHAR(13) PRIMARY KEY, Book_title VA...	0 row(s) affected
9	22:38:00	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Pu...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0
10	22:38:25	SELECT * FROM Books LIMIT 0, 1000	7 row(s) returned
11	22:38:44	CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_nam...	0 row(s) affected
12	22:39:06	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0

Context Help Snippets

Navigator

SCHEMAS

- Filter objects
 - teachers
 - Views
 - Stored Procedures
 - Functions
- library**
 - Tables
 - books
 - branch
 - customer
 - employee
 - Views
 - Stored Procedures
 - Functions

No object selected

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... ×

```

67     Customer_Id INT PRIMARY KEY,
68     Customer_name VARCHAR(100),
69     Customer_address VARCHAR(255),
70     Reg_date DATE
71   );
72
73 •  INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) VALUES
74   (301, 'Emily Brown', '12 Willow St, City A', '2021-12-15'),
75   (302, 'Michael Green', '98 Elm St, City B', '2022-01-20'),
76   (303, 'Sophia Miller', '56 Maple St, City C', '2020-10-05'),
77   (304, 'James Harris', '77 Cedar St, City A', '2021-07-22'),
78   (305, 'Olivia Lewis', '22 Birch St, City B', '2022-06-18');
79
80 •  SELECT *FROM Customer;
  
```

Output

#	Time	Action	Message	Dur
7	22:36:56	SELECT * FROM Employee LIMIT 0, 1000	9 row(s) returned	0.00
8	22:37:14	CREATE TABLE Books (ISBN VARCHAR(13) PRIMARY KEY, Book_title VA...	0 row(s) affected	0.03
9	22:38:00	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Pu...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.01
10	22:38:25	SELECT * FROM Books LIMIT 0, 1000	7 row(s) returned	0.00
11	22:38:44	CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_nam...	0 row(s) affected	0.03
12	22:39:06	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.01

Context Help Snippets

LIBRARY MANAGEMENT SYSTEM

```

76   (303, 'Sophia Miller', '56 Maple St, City C', '2020-10-05'),
77   (304, 'James Harris', '77 Cedar St, City A', '2021-07-22'),
78   (305, 'Olivia Lewis', '22 Birch St, City B', '2022-06-18');

80 • SELECT *FROM Customer;

```

Result Grid

Customer_Id	Customer_name	Customer_address	Reg_date
301	Emily Brown	12 Willow St, City A	2021-12-15
302	Michael Green	98 Elm St, City B	2022-01-20
303	Sophia Miller	56 Maple St, City C	2020-10-05
304	James Harris	77 Cedar St, City A	2021-07-22
305	Olivia Lewis	22 Birch St, City B	2022-06-18
HULL	HULL	HULL	HULL

Customer 5

Action Output

#	Time	Action	Message	Duration / F
8	22:37:14	CREATE TABLE Books (ISBN VARCHAR(13) PRIMARY KEY, Book_title VA...	0 row(s) affected	0.031 sec
9	22:38:00	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Pu...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.015 sec
10	22:38:25	SELECT * FROM Books LIMIT 0, 1000	7 row(s) returned	0.000 sec /
11	22:38:44	CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_name...	0 row(s) affected	0.031 sec
12	22:39:06	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
13	22:39:22	SELECT *FROM Customer LIMIT 0, 1000	5 row(s) returned	0.000 sec /

LIBRARY MANAGEMENT SYSTEM

```

86   Issue_date DATE,
87   Isbn_book VARCHAR(13),
88   FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),
89   FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
90   );
91
92 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book) VALUES
93   (401, 301, 'The History of Time', '2023-06-10', '1234567890'),
94   (402, 302, 'Science Revolution', '2023-06-15', '1234567891'),
95   (403, 305, 'Quantum Physics', '2023-07-05', '1234567893');
96
97 • SELECT * FROM IssueStatus ;
98
99 • CREATE TABLE ReturnStatus (

```

Action Output

#	Time	Action	Message	Duration / F
9	22:38:00	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Pu...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.015 sec
10	22:38:25	SELECT * FROM Books LIMIT 0, 1000	7 row(s) returned	0.000 sec /
11	22:38:44	CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_name...	0 row(s) affected	0.031 sec
12	22:39:06	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
13	22:39:22	SELECT *FROM Customer LIMIT 0, 1000	5 row(s) returned	0.000 sec /
14	22:39:41	CREATE TABLE IssueStatus (Issue_Id INT PRIMARY KEY, Issued_cust INT...	0 row(s) affected	0.000 sec /

LIBRARY MANAGEMENT SYSTEM

```

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM
--+ Issue_date DATE,
  Isbn_book VARCHAR(13),
  FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),
  FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
};

92 • INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book) VALUES
93 (401, 301, 'The History of Time', '2023-06-10', '1234567890'),
94 (402, 302, 'Science Revolution', '2023-06-15', '1234567891'),
95 (403, 305, 'Quantum Physics', '2023-07-05', '1234567893');

97 • SELECT * FROM IssueStatus ;
98

99 • CREATE TABLE ReturnStatus (

```

No object selected

Output

#	Time	Action	Message
10	22:38:25	SELECT * FROM Books LIMIT 0, 1000	7 row(s) returned
11	22:38:44	CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_name...	0 row(s) affected
12	22:39:06	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
13	22:39:22	SELECT *FROM Customer LIMIT 0, 1000	5 row(s) returned
14	22:39:41	CREATE TABLE IssueStatus (Issue_Id INT PRIMARY KEY, Issued_cust INT...	0 row(s) affected
15	22:40:25	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date...)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
16	22:40:39	SELECT * FROM IssueStatus LIMIT 0, 1000	3 row(s) returned

Object Info Session

LIBRARY MANAGEMENT SYSTEM

```

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM
--+ Issue_date DATE,
  Isbn_book VARCHAR(13),
  FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),
  FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
};

93 (401, 301, 'The History of Time', '2023-06-10', '1234567890'),
94 (402, 302, 'Science Revolution', '2023-06-15', '1234567891'),
95 (403, 305, 'Quantum Physics', '2023-07-05', '1234567893');

97 • SELECT * FROM IssueStatus ;

```

No object selected

Output

#	Time	Action	Message
11	22:38:44	CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_name...	0 row(s) affected
12	22:39:06	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
13	22:39:22	SELECT *FROM Customer LIMIT 0, 1000	5 row(s) returned
14	22:39:41	CREATE TABLE IssueStatus (Issue_Id INT PRIMARY KEY, Issued_cust INT...	0 row(s) affected
15	22:40:25	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date...)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
16	22:40:39	SELECT * FROM IssueStatus LIMIT 0, 1000	3 row(s) returned

Object Info Session

No object selected

```

103     Return_date DATE,
104     Isbn_book2 VARCHAR(13),
105     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
106     FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
107   );
108
109 •  INSERT INTO ReturnStatus ( Return_Id, Return_cust, Return_book_name, Return_date, Isbn_book2 ) VALUES
110   (501, 301, 'The History of Time', '2023-06-15', '1234567890'),
111   (502, 302, 'Science Revolution', '2023-06-20', '1234567891'),
112   (503, 305, 'Quantum Physics', '2023-07-10', '1234567893'),
113   (504, 303, 'The Art of War', '2023-07-12', '1234567892'),
114   (505, 304, 'World War II', '2023-08-05', '1234567894');
115
116 •  SELECT * FROM ReturnStatus ;

```

Automatic context help disabled. Use the toolbar manually get help for current caret position or toggle automatic help.

No object selected

```

103     Return_date DATE,
104     Isbn_book2 VARCHAR(13),
105     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
106     FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
107   );
108
109 •  INSERT INTO ReturnStatus ( Return_Id, Return_cust, Return_book_name, Return_date, Isbn_book2 ) VALUES
110   (501, 301, 'The History of Time', '2023-06-15', '1234567890'),
111   (502, 302, 'Science Revolution', '2023-06-20', '1234567891'),
112   (503, 305, 'Quantum Physics', '2023-07-10', '1234567893'),
113   (504, 303, 'The Art of War', '2023-07-12', '1234567892'),
114   (505, 304, 'World War II', '2023-08-05', '1234567894');
115
116 •  SELECT * FROM ReturnStatus ;

```

Automatic context help disabled. Use the toolbar manually get help for current caret position or toggle automatic help.

#	Time	Action	Message	Duration / Fee
13	22:39:22	SELECT * FROM Customer LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0
14	22:39:41	CREATE TABLE IssueStatus (Issue_Id INT PRIMARY KEY, Issued_cust INT...)	0 row(s) affected	0.062 sec
15	22:40:25	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date...)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
16	22:40:39	SELECT * FROM IssueStatus LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0
17	22:43:51	CREATE TABLE ReturnStatus (Return_Id INT PRIMARY KEY, Return_cust I...	0 row(s) affected	0.063 sec
18	22:44:18	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... X

```

112     (503, 305, 'Quantum Physics', '2023-07-10', '1234567893'),
113     (504, 303, 'The Art of War', '2023-07-12', '1234567892'),
114     (505, 304, 'World War II', '2023-08-05', '1234567894');

115
116 •  SELECT * FROM ReturnStatus ;
  
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Context Help | Snippets

Return_Id	Return_cust	Return_book_name	Return_date	Ibn_book2
501	301	The History of Time	2023-06-15	1234567890
502	302	Science Revolution	2023-06-20	1234567891
503	305	Quantum Physics	2023-07-10	1234567893
504	303	The Art of War	2023-07-12	1234567892
505	304	World War II	2023-08-05	1234567894
*	HULL	HULL	HULL	HULL

Action Output

#	Time	Action	Message
14	22:39:41	CREATE TABLE IssueStatus (Issue_Id INT PRIMARY KEY, Issued_cust INT, Issued_book_name NVARCHAR(100), Issue_date DATE, Status NVARCHAR(50))	0 row(s) affected
15	22:40:25	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Status) VALUES (1, 301, 'The History of Time', '2023-06-15', 'Yes')	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
16	22:40:39	SELECT * FROM IssueStatus LIMIT 0, 1000	3 row(s) returned
17	22:43:51	CREATE TABLE ReturnStatus (Return_Id INT PRIMARY KEY, Return_cust INT, Return_book_name NVARCHAR(100), Return_date DATE, Status NVARCHAR(50))	0 row(s) affected
18	22:44:18	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, Status) VALUES (1, 301, 'The History of Time', '2023-06-15', 'Yes')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
19	22:44:34	SELECT * FROM ReturnStatus LIMIT 0, 1000	5 row(s) returned

Object selected

Output:

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... X

```

117
118     # 1) Retrieve the book title, category, and rental price of all available books.
119
120 •  SELECT Book_title, Category, Rental_Price FROM Books
121 WHERE Status = 'Yes';
  
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid | Form Editor | Context Help | Snippets

Book_title	Category	Rental_Price
The History of Time	History	40.00
Science Revolution	Science	50.00
Quantum Physics	Science	60.00
The History of Ancient Rome	History	35.00

Action Output

#	Time	Action	Message
15	22:40:25	INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Status) VALUES (1, 301, 'The History of Time', '2023-06-15', 'Yes')	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
16	22:40:39	SELECT * FROM IssueStatus LIMIT 0, 1000	3 row(s) returned
17	22:43:51	CREATE TABLE ReturnStatus (Return_Id INT PRIMARY KEY, Return_cust INT, Return_book_name NVARCHAR(100), Return_date DATE, Status NVARCHAR(50))	0 row(s) affected
18	22:44:18	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, Status) VALUES (1, 301, 'The History of Time', '2023-06-15', 'Yes')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
19	22:44:34	SELECT * FROM ReturnStatus LIMIT 0, 1000	5 row(s) returned
20	22:44:59	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' LIMIT 0, 1000	4 row(s) returned

No object selected

Output:

Read Only

LIBRARY MANAGEMENT SYS..

```

122
123      # 2) List the employee names and their respective salaries in descending order of salary.
124
125 •   SELECT Emp_Id, Emp_name, Salary FROM Employee
126     ORDER BY Salary DESC;
127

```

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

Emp_Id	Emp_name	Salary
208	Ivy Adams	90000.00
201	Alice Smith	80000.00
203	Charlie Davis	75000.00
209	Jack Evans	70000.00
202	Bob Johnson	60000.00
205	Frank White	55000.00

Employee 9 x

No object selected

Output:

Action Output

#	Time	Action	Message
16	22:40:39	SELECT * FROM IssueStatus LIMIT 0, 1000	3 row(s) returned
17	22:43:51	CREATE TABLE ReturnStatus (Return_Id INT PRIMARY KEY, Return_cust I... 0 row(s) affected	
18	22:44:18	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return... 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	
19	22:44:34	SELECT * FROM ReturnStatus LIMIT 0, 1000	5 row(s) returned
20	22:44:59	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' L... 4 row(s) returned	
21	22:45:31	SELECT Emp_Id, Emp_name, Salary FROM Employee ORDER BY Salary DESC LI... 9 row(s) returned	

LIBRARY MANAGEMENT SYS..

```

127
128      # 3) Retrieve the book titles and the corresponding customers who have issued those books.
129
130 •   SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i
131     JOIN Customer C ON i.Issued_cust = c.Customer_Id ;
132

```

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

Issued_book_name	Customer_name
The History of Time	Emily Brown
Science Revolution	Michael Green
Quantum Physics	Olivia Lewis

Result 10 x

No object selected

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
17	22:43:51	CREATE TABLE ReturnStatus (Return_Id INT PRIMARY KEY, Return_cust I... 0 row(s) affected		0.063 sec
18	22:44:18	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return... 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0		0.015 sec
19	22:44:34	SELECT * FROM ReturnStatus LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.00
20	22:44:59	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' L... 4 row(s) returned		0.000 sec / 0.00
21	22:45:31	SELECT Emp_Id, Emp_name, Salary FROM Employee ORDER BY Salary DESC LI... 9 row(s) returned		0.000 sec / 0.00
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Custo... 3 row(s) returned		0.000 sec / 0.00

LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

132
133 # 4) Display the total count of books in each category.
134
135 • SELECT Category, COUNT(*) AS total_count FROM Books
136 GROUP BY Category;
137
138 # 5) Retrieve the employee names and their positions for the employees whose salaries are above Rs.
139
140 • SELECT Emp_Id, Emp_name, Position FROM Employee
141 WHERE Salary > 50000 ;

Result Grid

Category	total_count
History	4
Science	3

Action Output

#	Time	Action	Message
18	22:44:18	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
19	22:44:34	SELECT * FROM ReturnStatus LIMIT 0, 1000	5 row(s) returned
20	22:44:59	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' L...	4 row(s) returned
21	22:45:31	SELECT Emp_Id, Emp_name, Salary FROM Employee ORDER BY Salary DESC LI...	9 row(s) returned
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Custo...	3 row(s) returned
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category L...	2 row(s) returned

Result 11

Output

Action Output

#	Time	Action	Message	Duration
19	22:44:34	SELECT * FROM ReturnStatus LIMIT 0, 1000	5 row(s) returned	0.000 ms
20	22:44:59	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' L...	4 row(s) returned	0.000 ms
21	22:45:31	SELECT Emp_Id, Emp_name, Salary FROM Employee ORDER BY Salary DESC LI...	9 row(s) returned	0.000 ms
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Custo...	3 row(s) returned	0.000 ms
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category L...	2 row(s) returned	0.000 ms
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000 L...	7 row(s) returned	0.000 ms

Navigator | Object Explorer | Task List | Recent Items | Help

Query 1 TRIGGERS LIBRARY MANAGEMENT SYS... X

EMAS

library

Tables

- books
- branch
- customer
- employee
- issuestatus
- returnstatus

Views

Stored Procedures

Functions

Administration Schemas

Information

No object selected

```

143  # 6) List the customer names who registered before 2022-01-01 and have not issued any books yet.
144
145 •  SELECT c.Customer_name FROM Customer c
146   LEFT JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust
147   WHERE c.Reg_date < '2022-01-01' AND i.Issued_cust IS NULL;
  
```

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

Customer_name
Sophia Miller
James Harris

Form Editor

Automatic connection disabled. Use the context menu to manually get the current caret position or toggle automatic connection.

Result 13 X

Output

Action Output

#	Time	Action	Message
20	22:44:59	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' L...	4 row(s) returned
21	22:45:31	SELECT Emp_Id, Emp_name, Salary FROM Employee ORDER BY Salary DESC LI...	9 row(s) returned
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Custo...	3 row(s) returned
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category L...	2 row(s) returned
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000 L...	7 row(s) returned
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Cust...	2 row(s) returned

Read Only Context Help Snippets

Navigator | Object Explorer | Task List | Recent Items | Help

HEMAS

library

Tables

- books
- branch
- customer
- employee
- issuestatus
- returnstatus

Views

Stored Procedures

Functions

Administration Schemas

Information

No object selected

```

148
149  # 7) Display the branch numbers and the total count of employees in each branch
150
151 •  SELECT Branch_no, COUNT(*) AS Total_count FROM Employee
152   GROUP BY Branch_no;
  
```

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

Branch_no	Total_count
1	2
2	2
3	2
4	2
5	1

Form Editor

Automatic connection disabled. Use the context menu to manually get the current caret position or toggle automatic connection.

Result 14 X

Output

Action Output

#	Time	Action	Message
21	22:45:31	SELECT Emp_Id, Emp_name, Salary FROM Employee ORDER BY Salary DESC LI...	9 row(s) returned
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Custo...	3 row(s) returned
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category L...	2 row(s) returned
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000 L...	7 row(s) returned
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Cust...	2 row(s) returned
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Bran...	5 row(s) returned

Read Only Context Help S

Navigator | Query 1 | TRIGGERS | LIBRARY MANAGEMENT SYS... | SQLAdditions

CHEMAS

- Filter objects
- Stored Procedures
- Functions
- library**
- Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
- Views
- Stored Procedures
- Functions

Administration Schemas Information

No object selected

```

154    # 8) Display the names of customers who have issued books in the month of June 2023.
155
156 •   SELECT c.Customer_name FROM Customer c
157 JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust
158 WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;
  
```

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

Customer_name
Emily Brown
Michael Green

Action Output

#	Time	Action	Message
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = c.Customer_Id WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	3 row(s) returned
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category	2 row(s) returned
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000	7 row(s) returned
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Branch_no	5 row(s) returned
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
28	22:47:31	SELECT Book_title FROM Books WHERE Category = 'History'	4 row(s) returned

Result 15 x | Read Only | Context Help | Snippets

Output:

Action Output

#	Time	Action	Message
22	22:45:57	SELECT i.Issued_book_name , c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = c.Customer_Id WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	3 row(s) returned
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category	2 row(s) returned
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000	7 row(s) returned
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Branch_no	5 row(s) returned
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
28	22:47:31	SELECT Book_title FROM Books WHERE Category = 'History'	4 row(s) returned

Object Info Session

Navigator | Query 1 | TRIGGERS | LIBRARY MANAGEMENT SYS... | SQLAdditions

CHEMAS

- Filter objects
- Stored Procedures
- Functions
- library**
- Tables
 - books
 - branch
 - customer
 - employee
 - issuestatus
 - returnstatus
- Views
- Stored Procedures
- Functions

Administration Schemas Information

No object selected

```

159
160    # 9) Retrieve book_title from book table containing history.
161
162 •   SELECT Book_title FROM Books
163 WHERE Category = 'History';
  
```

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

Book_title
The History of Time
The Art of War
World War II
The History of Ancient Rome

Action Output

#	Time	Action	Message
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category	2 row(s) returned
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000	7 row(s) returned
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Branch_no	5 row(s) returned
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
28	22:47:46	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	4 row(s) returned

Books 16 x | Read Only | Context Help | Snippets

Output:

Action Output

#	Time	Action	Message
23	22:46:16	SELECT Category, COUNT(*) AS total_count FROM Books GROUP BY Category	2 row(s) returned
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000	7 row(s) returned
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Branch_no	5 row(s) returned
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust WHERE MONTH(i.Issue_date) = 6 AND YEAR(i.Issue_date) = 2023;	2 row(s) returned
28	22:47:46	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	4 row(s) returned

Object Info Session

Navigator: LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

```

165 # 10) Retrieve the branch numbers along with the count of employees for branches having more than 5
166
167 • SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee
168 GROUP BY Branch_no
169 HAVING COUNT(*) > 5;

```

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

Branch_no	Employee_Count

Result 17 x Output

Action Output

#	Time	Action	Message	Dura
24	22:46:33	SELECT Emp_Id, Emp_name, Position FROM Employee WHERE Salary > 50000 L...	7 row(s) returned	0.00
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Cust...	2 row(s) returned	0.00
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Bran...	5 row(s) returned	0.00
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_...	2 row(s) returned	0.01
28	22:47:46	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	4 row(s) returned	0.00
29	22:48:04	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY...	0 row(s) returned	0.00

Read Only Context Help Snippets

No object selected

Object Info Session

Navigator: LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

```

171 # 11) Retrieve the names of employees who manage branches and their respective branch addresses
172
173 • SELECT e.Emp_name, b.Branch_address FROM Employee e
174 JOIN Branch b ON e.Branch_no = b.Branch_no
175 WHERE e.Position = 'Manager';

```

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

Emp_name	Branch_address
Alice Smith	123 Main St, Downtown, New Delhi, 110001
Charlie Davis	789 Pine St, MG Road, Bengaluru, 560001
Ivy Adams	987 Cedar St, Whitefield, Hyderabad, 500001

Result 18 x Output

Action Output

#	Time	Action	Message	Dura
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Cust...	2 row(s) returned	0.
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Bran...	5 row(s) returned	0.
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_...	2 row(s) returned	0.
28	22:47:46	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	4 row(s) returned	0.
29	22:48:04	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY...	0 row(s) returned	0.
30	22:48:20	SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e...	3 row(s) returned	0.

Read Only Context Help Snippets

No object selected

Object Info Session

Navigator: LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

```

176 # 12) Retrieve the names of employees who manage branches and their respective branch addresses
177
178 • SELECT e.Emp_name, b.Branch_address FROM Employee e
179 JOIN Branch b ON e.Branch_no = b.Branch_no
180 WHERE e.Position = 'Manager';

```

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

Emp_name	Branch_address
Alice Smith	123 Main St, Downtown, New Delhi, 110001
Charlie Davis	789 Pine St, MG Road, Bengaluru, 560001
Ivy Adams	987 Cedar St, Whitefield, Hyderabad, 500001

Result 19 x Output

Action Output

#	Time	Action	Message	Dura
25	22:46:51	SELECT c.Customer_name FROM Customer c LEFT JOIN IssueStatus i ON c.Cust...	2 row(s) returned	0.
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Bran...	5 row(s) returned	0.
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_...	2 row(s) returned	0.
28	22:47:46	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000	4 row(s) returned	0.
29	22:48:04	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY...	0 row(s) returned	0.
30	22:48:20	SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e...	3 row(s) returned	0.

Read Only Context Help Snippets

LIBRARY MANAGEMENT SYSTEM

Query 1 TRIGGERS LIBRARY MANAGEMENT SYSTEM

178
179 • SELECT c.Customer_name FROM Customer c
180 JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust
181 JOIN Books b ON i.Isbn_book = b.ISBN
182 WHERE b.Rental_Price > 25;

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid
Customer_name
Emily Brown
Michael Green
Olivia Lewis

Result 19 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration
26	22:47:15	SELECT Branch_no, COUNT(*) AS Total_count FROM Employee GROUP BY Branch_no;	5 row(s) returned	0.000 sec
27	22:47:31	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust;	2 row(s) returned	0.016 sec
28	22:47:46	SELECT Book_title FROM Books WHERE Category = 'History' LIMIT 0, 1000;	4 row(s) returned	0.000 sec
29	22:48:04	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY Branch_no;	0 row(s) returned	0.000 sec
30	22:48:20	SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e.Branch_no = b.Branch_no;	3 row(s) returned	0.000 sec
31	22:48:36	SELECT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust;	3 row(s) returned	0.016 sec

No object selected

Object Info Session

Automatic context I disabled. Use the toolbar to manually get help for current caret position. Toggle automatic help.