MySQL PROJECT LIBRARY MANAGEMENT SYSTEM

```
-- Create the database
        CREATE DATABASE library;
  4
        -- Use the database
        USE library;
  6
        -- Create the Branch table
  7
 8 • ⊖ CREATE TABLE Branch (
 9
            Branch_no INT PRIMARY KEY,
            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)
15 •
16
        (1, 101, '123 Main Street', '123-456-7890'),
17
        (2, 102, '456 Oak Avenue', '987-654-3210'),
18
        (3, 103, '789 Elm Drive', '456-789-0123'),
19
        (4, 104, '567 Pine Road', '321-987-6543'),
 20
        (5, 105, '890 Maple Lane', '789-012-3456');
        SELECT * FROM Branch;
 22 •
                                          Edit: 🚄 🖶 🖶 Export/Import: 识 👸 Wrap Cell Content: 🔣
Result Grid Filter Rows:
   Branch_no Manager_Id Branch_address Contact_no
                        123 Main Street 123-456-7890
             101
                        456 Oak Avenue 987-654-3210
             102
  3
             103
                        789 Elm Drive
                                      456-789-0123
                       567 Pine Road 321-987-6543
            104
             105
                       890 Maple Lane 789-012-3456
  HULL
            NULL
```

```
-- Create the Employee table
  25
  26 ● ○ CREATE TABLE Employee (
             Emp Id INT PRIMARY KEY,
  27
             Emp_name VARCHAR(255),
  28
             Position VARCHAR(50),
  29
             Salary DECIMAL(10, 2),
  30
             Branch no INT,
  31
             FOREIGN KEY (Branch no) REFERENCES Branch(Branch no)
  32
        );
  33
  34
         INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no)
  35 •
  36
         VALUES
         (201, 'John Doe', 'Librarian', 40000.00, 1),
  37
         (202, 'Jane Smith', 'Assistant Librarian', 30000.00, 2),
  38
         (203, 'David Lee', 'Clerk', 25000.00, 3),
  39
         (204, 'Mary Johnson', 'Assistant Librarian', 32000.00, 4),
  40
         (205, 'Sarah Brown', 'Clerk', 24000.00, 5);
  41
         SELECT * FROM Employee;
  42 0
                                        Edit: 🔏 📆 Export/Import: 📳 👸 | Wrap Cell Content: 🔣
Popult Guid | A Elter Po
```

	Emp_Id	Emp_name	Position	Salary	Branch_no
•	201	John Doe	Librarian	40000.00	1
	202	Jane Smith	Assistant Librarian	30000.00	2
	203	David Lee	Clerk	25000.00	3
	204	Mary Johnson	Assistant Librarian	32000.00	4
	205	Sarah Brown	Clerk	24000.00	5
	NULL	NULL	NULL	NULL	NULL

```
🗎 🖫 | 🀓 🙀 👰 🕖 | 🚱 | 🕲 🔞 🔞 | Limit to 1000 rows 🔻 埃 | 🦸 🔍 🕦 🖫
       -- Create the Books table
44 • ⊖ CREATE TABLE Books (
45
           ISBN VARCHAR(20) PRIMARY KEY,
           Book_title VARCHAR(255),
           Category VARCHAR(100),
           Rental Price DECIMAL(10, 2),
49
           Status ENUM('yes', 'no'),
50
           Author VARCHAR(255),
           Publisher VARCHAR(255)
51
52
       · );
53
54 •
       INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher)
55
56
       ('978-0061120084', 'To Kill a Mockingbird', 'Fiction', 15.00, 'yes', 'Harper Lee', 'Harper Perennial Modern Classics'),
       ('978-0307277671', 'The Catcher in the Rye', 'Fiction', 12.00, 'yes', 'J.D. Salinger', 'Back Bay Books'),
57
        ('978-0451524935', '1984', 'Fiction', 14.00, 'yes', 'George Orwell', 'Signet Classic'),
        ('978-1451673319', 'The Great Gatsby', 'Fiction', 10.00, 'yes', 'F. Scott Fitzgerald', 'Scribner'),
       ('978-1400033423', 'The Adventures of Huckleberry Finn', 'Fiction', 13.00, 'yes', 'Mark Twain', 'Modern Library'),
       ('978-0062316094', 'Sapiens: A Brief History of Humankind', 'History', 20.00, 'yes', 'Yuval Noah Harari', 'Harper'),
61
       ('978-0140441000', 'The Republic', 'Philosophy', 18.00, 'yes', 'Plato', 'Penguin Classics'),
62
       ('978-0307477721', 'A Brief History of Time', 'Science', 25.00, 'yes', 'Stephen Hawking', 'Bantam'),
63
       ('978-0143127550', 'Thinking, Fast and Slow', 'Psychology', 22.00, 'yes', 'Daniel Kahneman', 'Farrar, Straus and Giroux'),
64
       ('978-0060850524', 'The Power of Habit: Why We Do What We Do in Life and Business', 'Self-Help', 16.00, 'yes', 'Charles Duhigg', 'Random House'),
65
66
       ('978-0385490818', 'The Seven Habits of Highly Effective People: Powerful Lessons in Personal Change', 'Self-Help', 17.00, 'yes', 'Stephen R. Covey', 'Simon & Schuster'),
67
       ('978-0679753351', 'The Art of Happiness', 'Self-Help', 19.00, 'yes', 'Dalai Lama', 'Riverhead Books'),
       ('978-1594484803', 'Quiet: The Power of Introverts in a World That Cannot Stop Talking', 'Psychology', 21.00, 'yes', 'Susan Cain', 'Crown Publishers'),
       ('978-0143128540', 'The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses', 'Business', 23.00, 'yes', 'Eric Ries',
       ('978-8804141329', 'The 4-Hour Workweek: Escape 9-5, Live Anywhere, and Join the New Rich', 'Business', 24.00, 'yes', 'Timothy Ferriss', 'Crown Publishing Group');
```

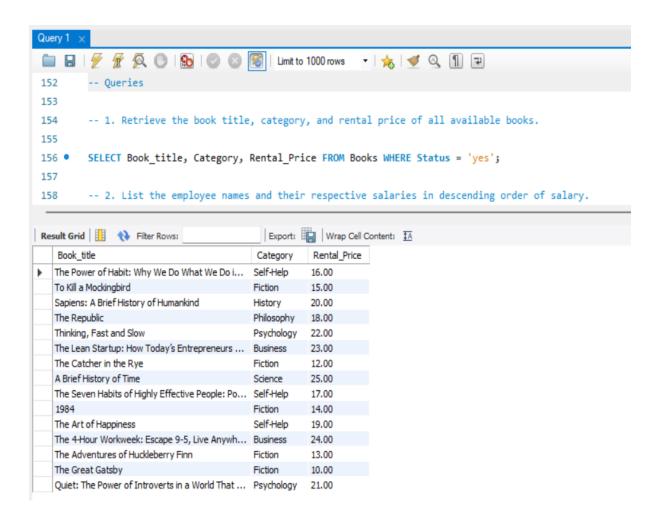
	ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
•	978-0060850524	The Power of Habit: Why We Do What We Do i	Self-Help	16.00	yes	Charles Duhigg	Random House
	978-0061120084	To Kill a Mockingbird	Fiction	15.00	yes	Harper Lee	Harper Perennial Modern Classics
	978-0062316094	Sapiens: A Brief History of Humankind	History	20.00	yes	Yuval Noah Harari	Harper
	978-0140441000	The Republic	Philosophy	18.00	yes	Plato	Penguin Classics
	978-0143127550	Thinking, Fast and Slow	Psychology	22.00	yes	Daniel Kahneman	Farrar, Straus and Giroux
	978-0143128540	The Lean Startup: How Today's Entrepreneurs	Business	23.00	yes	Eric Ries	Crown Business
	978-0307277671	The Catcher in the Rye	Fiction	12.00	yes	J.D. Salinger	Back Bay Books
	978-0307477721	A Brief History of Time	Science	25.00	yes	Stephen Hawking	Bantam
	978-0385490818	The Seven Habits of Highly Effective People: Po	Self-Help	17.00	yes	Stephen R. Covey	Simon & Schuster
	978-0451524935	1984	Fiction	14.00	yes	George Orwell	Signet Classic
	978-0679753351	The Art of Happiness	Self-Help	19.00	yes	Dalai Lama	Riverhead Books
	978-0804141329	The 4-Hour Workweek: Escape 9-5, Live Anywh	Business	24.00	yes	Timothy Ferriss	Crown Publishing Group
	978-1400033423	The Adventures of Huckleberry Finn	Fiction	13.00	yes	Mark Twain	Modern Library
	978-1451673319	The Great Gatsby	Fiction	10.00	yes	F. Scott Fitzgerald	Scribner
	978-1594484803	Quiet: The Power of Introverts in a World That	Psychology	21.00	yes	Susan Cain	Crown Publishers
	NULL	NULL	NULL	NULL	HULL	NULL	NULL

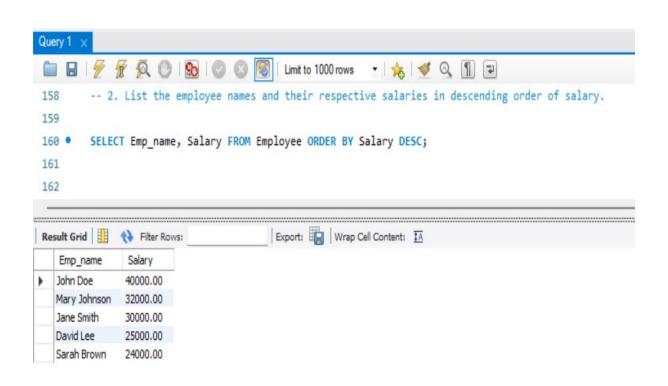
```
Query 1
Limit to 1000 rows ▼ | 🌟 | 🥩 🔍 👖 📦
         -- Create the Customer table
 64
 65
 66 ● ○ CREATE TABLE Customer (
             Customer Id INT PRIMARY KEY,
 67
             Customer name VARCHAR(255),
 68
             Customer_address VARCHAR(255),
 69
             Reg date DATE
 70
         );
 71
 72
         INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date)
 73 •
 74
         VALUES
         (301, 'Alice Johnson', '123 Elm Street', '2023-01-15'),
 75
         (302, 'Bob Smith', '456 Oak Avenue', '2023-02-20'),
 76
         (303, 'Charlie Brown', '789 Maple Drive', '2023-03-25'),
 77
         (304, 'Diana Lee', '567 Pine Road', '2023-04-30'),
 78
         (305, 'Eva Martinez', '890 Oak Lane', '2023-05-05');
 79
 80 •
         SELECT * FROM Customer;
                                          Edit: 🔏 🖶 | Export/Import: 🏭 🐻 | Wrap Cell Content: 🖽
Result Grid
              Filter Rows:
                             Customer_address | Reg_date
   Customer_Id
               Customer_name
              Alice Johnson
                             123 Elm Street
                                            2023-01-15
  301
              Bob Smith
                             456 Oak Avenue
   302
                                            2023-02-20
              Charlie Brown
                            789 Maple Drive
   303
                                            2023-03-25
   304
                            567 Pine Road
              Diana Lee
                                            2023-04-30
                            890 Oak Lane
   305
              Eva Martinez
                                            2023-05-05
  NULL
              NULL
```

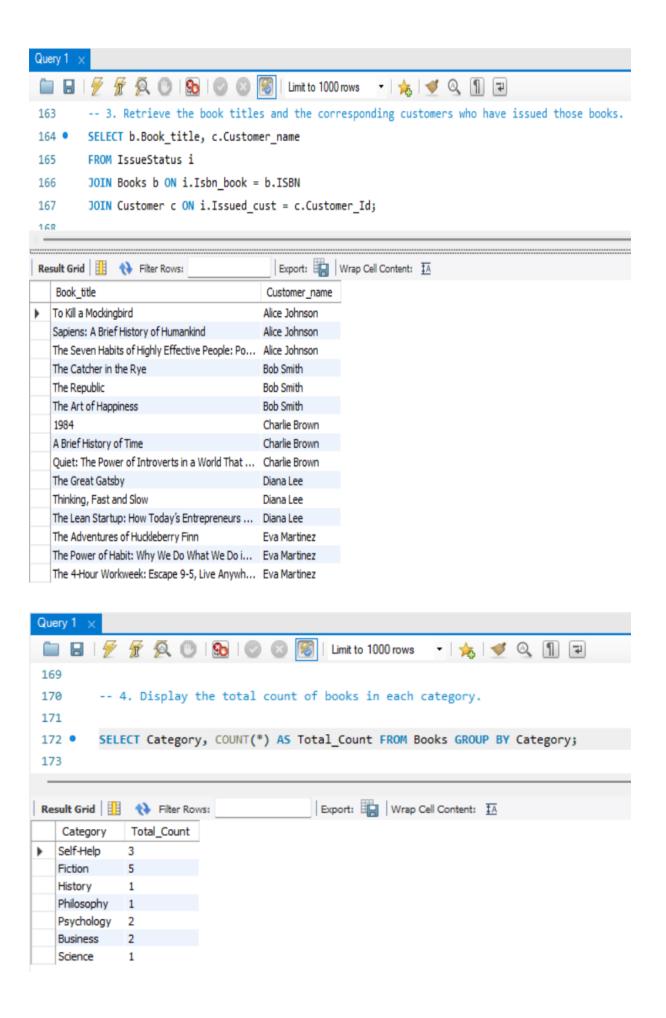
```
    □ □ □ | F F Q □ | Q □ | Q □ | Q □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □ | D □
                 -- Create the IssueStatus table
  93 • ⊖ CREATE TABLE IssueStatus (
                         Issue_Id INT PRIMARY KEY,
  94
  95
                         Issued_cust INT,
                         Issued_book_name VARCHAR(255),
                         Issue date DATE,
  97
  98
                         Isbn_book VARCHAR(20),
  99
                         FOREIGN KEY (Issued cust) REFERENCES Customer(Customer Id),
                         FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
101
              INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book)
102 •
103
                 (701, 301, 'To Kill a Mockingbird', '2023-01-20', '978-0061120084'),
104
                (702, 302, 'The Catcher in the Rye', '2023-02-25', '978-0307277671'),
                (703, 303, '1984', '2023-03-30', '978-0451524935'),
                (704, 304, 'The Great Gatsby', '2023-04-05', '978-1451673319'),
107
                (705, 305, 'The Adventures of Huckleberry Finn', '2023-05-10', '978-1400033423'),
108
                 (706, 301, 'Sapiens: A Brief History of Humankind', '2023-06-15', '978-0062316094'),
                (707, 302, 'The Republic', '2023-07-20', '978-0140441000'),
               (708, 303, 'A Brief History of Time', '2023-08-25', '978-0307477721'),
111
                (709, 304, 'Thinking, Fast and Slow', '2023-09-30', '978-0143127550'),
                (710, 305, 'The Power of Habit: Why We Do What We Do in Life and Business', '2023-10-05', '978-0060850524'),
                (711, 301, 'The Seven Habits of Highly Effective People: Powerful Lessons in Personal Change', '2023-11-10', '978-0385490818'),
114
                (712, 302, 'The Art of Happiness', '2023-12-15', '978-0679753351'),
115
                (713, 303, 'Quiet: The Power of Introverts in a World That Cannot Stop Talking', '2024-01-20', '978-1594484803'),
                 (714, 304, 'The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses', '2024-02-25', '978-0143128540'),
                (715, 305, 'The 4-Hour Workweek: Escape 9-5, Live Anywhere, and Join the New Rich', '2024-03-01', '978-0804141329');
118
119
120 • SELECT * FROM IssueStatus;
```

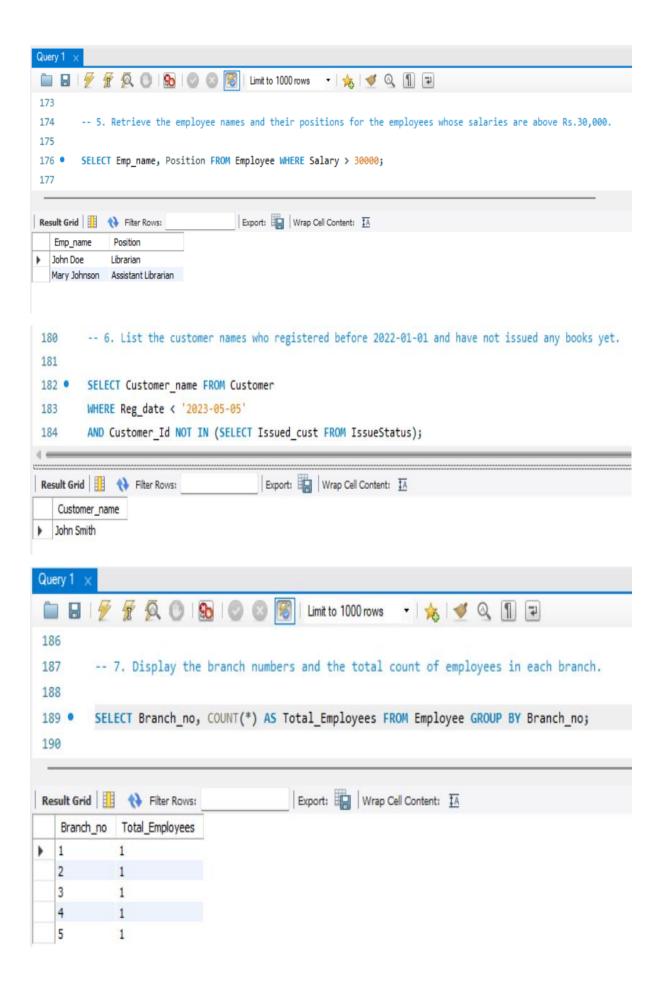
Resu	ult Grid	Filter	Rows: Edit:	Export/Import:	Wrap Co	ell Content:	
	Issue_Id	Issued_cust	Issued_book_name	Issue_date	Isbn_book		
· 7	701	301	To Kill a Mockingbird	2023-01-20	978-0061120084		
7	702	302	The Catcher in the Rye	2023-02-25	978-0307277671		
7	703	303	1984	2023-03-30	978-0451524935		
7	704	304	The Great Gatsby	2023-04-05	978-1451673319		
7	705	305	The Adventures of Huckleberry Finn	2023-05-10	978-1400033423		
7	706	301	Sapiens: A Brief History of Humankind	2023-06-15	978-0062316094		
7	707	302	The Republic	2023-07-20	978-0140441000		
7	708	303	A Brief History of Time	2023-08-25	978-0307477721		
7	709	304	Thinking, Fast and Slow	rief History of Ti	me -0143127550		
7	710	305	The Power of Habit: Why We Do What We Do i	. 2023-10-05	978-0060850524		
7	711	301	The Seven Habits of Highly Effective People: Po.	2023-11-10	978-0385490818		
7	712	302	The Art of Happiness	2023-12-15	978-0679753351		
7	713	303	Quiet: The Power of Introverts in a World That .	2024-01-20	978-1594484803		
7	714	304	The Lean Startup: How Today's Entrepreneurs	. 2024-02-25	978-0143128540		
7	715	305	The 4-Hour Workweek: Escape 9-5, Live Anywh.	2024-03-01	978-0804141329		
. [HULL	NULL	NULL	NULL	NULL		

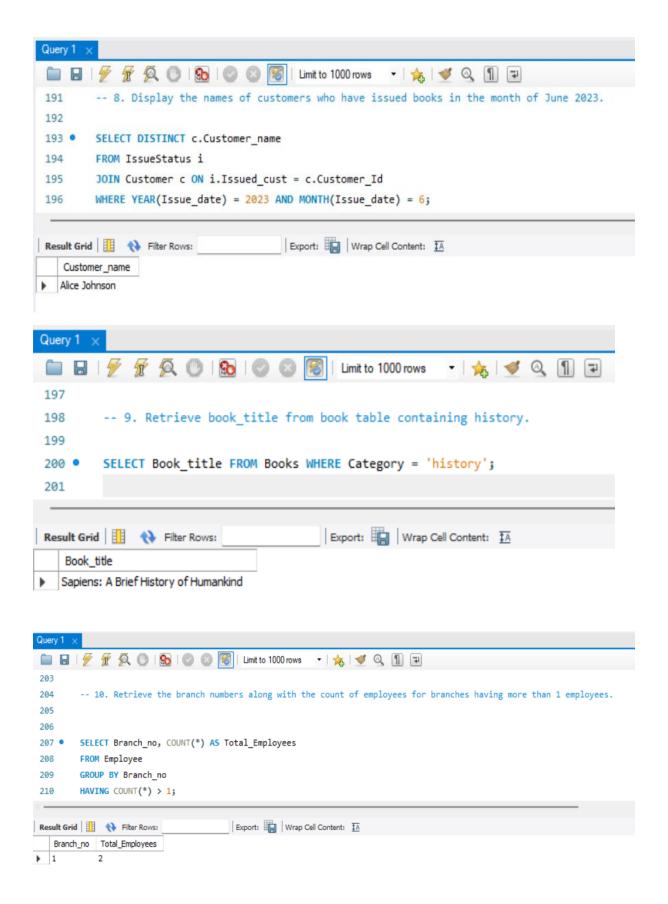
```
Limit to 1000 rows ▼ | 🏂 | 🥩 🔍 🗻 📦
-- Create the ReturnStatus table
122
123 • ⊖ CREATE TABLE ReturnStatus (
          Return_Id INT PRIMARY KEY,
          Return cust INT,
125
          Return book name VARCHAR(255),
126
127
          Return_date DATE,
          Isbn book2 VARCHAR(20),
128
129
          FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
          FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)
130
131
       INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, Isbn_book2)
132 •
133
       (801, 301, 'To Kill a Mockingbird', '2023-02-05', '978-0061120084'),
134
       (802, 302, 'The Catcher in the Rye', '2023-03-10', '978-0307277671'),
135
       (803, 303, '1984', '2023-04-15', '978-0451524935'),
136
       (804, 304, 'The Great Gatsby', '2023-05-20', '978-1451673319'),
137
       (805, 305, 'The Adventures of Huckleberry Finn', '2023-06-25', '978-1400033423'),
138
       (806, 301, 'Sapiens: A Brief History of Humankind', '2023-07-10', '978-0062316094'),
139
       (807, 302, 'The Republic', '2023-08-15', '978-0140441000'),
       (808, 303, 'A Brief History of Time', '2023-09-20', '978-0307477721'),
141
142
       (809, 304, 'Thinking, Fast and Slow', '2023-10-25', '978-0143127550'),
       (810, 305, 'The Power of Habit: Why We Do What We Do in Life and Business', '2023-11-30', '978-0060850524'),
143
144
       (811, 301, 'The Seven Habits of Highly Effective People: Powerful Lessons in Personal Change', '2023-12-05', '978-0385490818'),
       (812, 302, 'The Art of Happiness', '2024-01-10', '978-0679753351'),
       (813, 303, 'Quiet: The Power of Introverts in a World That Cannot Stop Talking', '2024-02-15', '978-1594484803'),
146
       (814, 304, 'The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses', '2024-03-20', '978-0143128540'),
147
       (815, 305, 'The 4-Hour Workweek: Escape 9-5, Live Anywhere, and Join the New Rich', '2024-04-25', '978-0804141329');
149
150 •
       SELECT * FROM ReturnStatus;
Edit: 🍊 🖶 Export/Import: 📳 📸 Wrap Cell Content: 🟗
                                                                                           Return date
      Return Id
                    Return cust
                                     Return book name
     801
                    301
                                    To Kill a Mockingbird
                                                                                           2023-02 2023-02-05 61120084
     802
                   302
                                    The Catcher in the Rye
                                                                                                            978-0307277671
                                                                                           2023-03-10
     803
                    303
                                    1984
                                                                                           2023-04-15
                                                                                                            978-0451524935
     804
                   304
                                    The Great Gatsby
                                                                                                            978-1451673319
                                                                                           2023-05-20
     805
                    305
                                    The Adventures of Huckleberry Finn
                                                                                           2023-06-25
                                                                                                            978-1400033423
     806
                   301
                                    Sapiens: A Brief History of Humankind
                                                                                           2023-07-10
                                                                                                            978-0062316094
     807
                    302
                                    The Republic
                                                                                           2023-08-15
                                                                                                            978-0140441000
     808
                   303
                                    A Brief History of Time
                                                                                           2023-09-20
                                                                                                            978-0307477721
     809
                    304
                                    Thinking, Fast and Slow
                                                                                           2023-10-25
                                                                                                            978-0143127550
                   305
                                    The Power of Habit: Why We Do What We Do i...
                                                                                                           978-0060850524
     810
                                                                                           2023-11-30
     811
                    301
                                    The Seven Habits of Highly Effective People: Po... 2023-12-05
                                                                                                            978-0385490818
                   302
                                    The Art of Happiness
                                                                                           2024-01-10
     812
                                                                                                            978-0679753351
     813
                    303
                                    Ouiet: The Power of Introverts in a World That ... 2024-02-15
                                                                                                            978-1594484803
     814
                   304
                                    The Lean Startup: How Today's Entrepreneurs ... 2024-03-20
                                                                                                            978-0143128540
     815
                   305
                                    The 4-Hour Workweek: Escape 9-5, Live Anywh... 2024-04-25
                                                                                                            978-0804141329
    NULL
                   NULL
```











AJEESH M

DSML 19