Topic: Library Management System You are going to build a project based on Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library.

Create a database named library

#### CREATE DATABASE LIBRARY;

#### USE LIBRARY:

	1 •	CREAT	E DATABASE library;							
	2 •	use 1	ibrary;							
	3									
□ Action Output ▼										
	#	Time	Action	Message						
0	1	10:15:13	CREATE DATABASE library	1 row(s) affected						
0	2	10:15:20	use library	0 row(s) affected						

**TABLES** in the database and the attributes

#### 1. BRANCH

#### BRANCH NO-SET AS PRIMARY KEY

#### MANAGER\_ID

#### BRANCH ADDRESS

#### CONTACT NO

```
CREATE TABLE BRANCH
(BRANCH_NO INT PRIMARY KEY AUTO_INCREMENT,
MANAGER_ID INT NOT NULL,
BRANCH ADDRESS VARCHAR(255) NOT NULL,
 CONTACT_NO VARCHAR(15) NOT NULL);
       CREATE TABLE Branch
     Manager_Id INT not null,
  6
         Branch_address VARCHAR(255) not null,
  7
         Contact_no VARCHAR(15) not null);
  8
Output :
Action Output
     1 10:35:34 CREATE TABLE Branch (Branch_no INT PRIMARY KEY auto_increment, Manager_ld INT not null, ... 0 row(s) affected
```

```
INSERT INTO BRANCH (MANAGER ID, BRANCH ADDRESS, CONTACT NO) VALUES
 (101, '123 MAIN ST, KUTTANAD, KERALA', '9947561223'),
 (102, '456 ELM ST, ALAPPUZHA, KERALA', '9947561226'),
 (103, '789 PINE ST, KOCHI, KERALA', '9957561225'),
 (104, '321 OAK ST, THIRUVANANTHAPURAM, KERALA', '9934561224'),
 (105, '654 MAPLE ST, KOLLAM, KERALA', '9947581221'),
 (106, '987 BIRCH ST, THRISSUR, KERALA', '9847561222'),
 (107, '159 CEDAR ST, PALAKKAD, KERALA', '9347565223'),
 (108, '753 SPRUCE ST, MALAPPURAM, KERALA', '9957561223'),
 (109, '852 WILLOW ST, KANNUR, KERALA', '9947561238'),
 (110, '951 FIR ST, KOZHIKODE, KERALA', '9947552223');
          INSERT INTO Branch (Manager_Id, Branch_address, Contact_no) VALUES
  11
          (101, '123 Main St, Kuttanad, Kerala', '9947561223'),
          (102, '456 Elm St, Alappuzha, Kerala', '9947561226'),
          (103, '789 Pine St, Kochi, Kerala', '9957561225'),
  13
          (104, '321 Oak St, Thiruvananthapuram, Kerala', '9934561224'),
  14
          (105, '654 Maple St, Kollam, Kerala', '9947581221'),
  15
          (106, '987 Birch St, Thrissur, Kerala', '9847561222'),
  16
          (107, '159 Cedar St, Palakkad, Kerala', '9347565223'),
  17
          (108, '753 Spruce St, Malappuram, Kerala', '9957561223'),
  18
  19
          (109, '852 Willow St, Kannur, Kerala', '9947561238'),
  20
          (110, '951 Fir St, Kozhikode, Kerala', '9947552223');
Output :
Action Output
       Time
              Action
    1 10:35:34 CREATE TABLE Branch (Branch_no INT PRIMARY KEY auto_increment, Manager_ld INT not null, B... 0 row(s) affected
2 11:23:23 INSERT INTO Branch (Manager_Id, Branch_address, Contact_no) VALUES (101, '123 Main St, Kuttana... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
SELECT * FROM BRANCH:
  22 •
           select * from branch;
                                       | Edit: 🝊 📆 📴 | Export/Import: 📺 👸 | Wrap Cell Content: 🖽
 Branch_no Manager_Id Branch_address
                                                    Contact_no
   1
             101
                       123 Main St, Kuttanad, Kerala
                                                    9947561223
                                                   9947561226
             102
                      456 Elm St, Alappuzha, Kerala
                                                   9957561225
             103
                       789 Pine St, Kochi, Kerala
             104
                   321 Oak St, Thiruvananthapuram, Kerala 9934561224
             105
                       654 Maple St, Kollam, Kerala
                    987 Birch St, Thrissur, Kerala
   6
            106
                                                   9847561222
             107
                       159 Cedar St, Palakkad, Kerala
                                                   9347565223
   8
             108
                   753 Spruce St, Malappuram, Kerala
                                                   9957561223
             109
                      852 Willow St. Kannur, Kerala
                                                   9947561238
   10
                      951 Fir St, Kozhikode, Kerala
                                                   9947552223
branch 1 ×
Output
Action Output
      Time
               Action
                                                                                  Message
    1 10:35:34 CREATE TABLE Branch (Branch_no INT PRIMARY KEY auto_increment, Manager_ld INT not null... 0 row(s) affected
```

2 11:23:23 INSERT INTO Branch (Manager\_Id, Branch\_address, Contact\_no) VALUES (101, '123 Main St, Kutt... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

10 row(s) returned

3 11:25:55 select \* from branch LIMIT 0, 50000

## 2. EMPLOYEE

EMP\_ID - SET AS PRIMARY KEY

EMP NAME

POSITION

SALARY

BRANCH\_NO - SET AS FOREIGN KEY AND IT REFER BRANCH\_NO IN BRANCH TABLE

```
CREATE TABLE EMPLOYEE
 (EMP_ID INT PRIMARY KEY AUTO_INCREMENT,
 EMP_NAME VARCHAR(100) NOT NULL,
 POSITION VARCHAR(50) NOT NULL,
 SALARY DECIMAL(10, 2) NOT NULL,
 BRANCH_NO INT,
 FOREIGN KEY (BRANCH_NO) REFERENCES BRANCH(BRANCH_NO));
  24 •
          CREATE TABLE Employee
  25 ⊝ ( Emp_Id INT PRIMARY KEY auto_increment,
          Emp_name VARCHAR(100) not null,
          Position VARCHAR(50) not null,
          Salary DECIMAL(10, 2) not null,
  28
  29
         Branch no INT,
  30
          FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no) );
  31
Output:
Action Output
1 10:35:34 CREATE TABLE Branch (Branch_no INT PRIMARY KEY auto_increment, Manager_ld INT not null... 0 row(s) affected
2 11:23:23 INSERT INTO Branch (Manager_Id, Branch_address, Contact_no) VALUES (101, '123 Main St, Kutt... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
    3 11:25:55 select * from branch LIMIT 0, 50000
                                                                                 10 row(s) returned
4 12:33:06 CREATE TABLE Employee (Emp_Id INT PRIMARY KEY auto_increment, Emp_name VARCHAR(... 0 row(s) affected
```

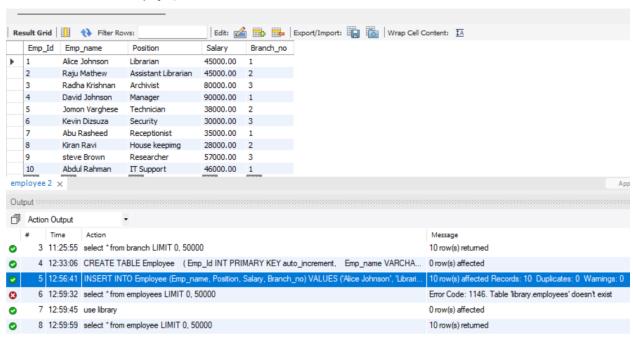
```
INSERT INTO EMPLOYEE (EMP NAME, POSITION, SALARY, BRANCH NO) VALUES ('ALICE
JOHNSON', 'LIBRARIAN', 45000.00, 1),
 ('RAJU MATHEW', 'ASSISTANT LIBRARIAN', 45000.00, 2),
 ('RADHA KRISHNAN', 'ARCHIVIST', 80000.00, 3),
 ('DAVID JOHNSON', 'MANAGER', 90000.00, 1),
 ('JOMON VARGHESE', 'TECHNICIAN', 38000.00, 2),
 ('KEVIN DIZSUZA', 'SECURITY', 30000.00, 3),
 ('ABU RASHEED', 'RECEPTIONIST', 35000.00, 1),
 ('KIRAN RAVI', 'HOUSE KEEPIMG', 28000.00, 2),
 ('STEVE BROWN', 'RESEARCHER', 57000.00, 3),
 ('ABDUL RAHMAN', 'IT SUPPORT', 46000.00, 1);
           INSERT INTO Employee (Emp_name, Position, Salary, Branch_no) VALUES ('Alice Johnson', 'Librarian', 45000.00, 1),
  32 •
  33
           ('Raju Mathew', 'Assistant Librarian', 45000.00, 2),
           ('Radha Krishnan', 'Archivist', 80000.00, 3),
           ('David Johnson', 'Manager', 90000.00, 1),
           ('Jomon Varghese', 'Technician', 38000.00, 2),
           ('Kevin Dizsuza', 'Security', 30000.00, 3),
           ('Abu Rasheed', 'Receptionist', 35000.00, 1),
           ('Kiran Ravi', 'House keepimg', 28000.00, 2),
           ('steve Brown', 'Researcher', 57000.00, 3),
           ('Abdul Rahman', 'IT Support', 46000.00, 1);
  41
  42
 Output ::::
 Action Output
       Time
               Action
                                                                                  Message
    1 10:35:34 CREATE TABLE Branch (Branch_no INT PRIMARY KEY auto_increment, Manager_ld INT not null... 0 row(s) affected
2 11:23:23 INSERT INTO Branch (Manager_Id, Branch_address, Contact_no) VALUES (101, '123 Main St, Kutt... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
      3 11:25:55 select * from branch LIMIT 0, 50000
                                                                                  10 row(s) returned

    4 12:33:06 CREATE TABLE Employee (Emp_Id INT PRIMARY KEY auto_increment, Emp_name VARCHAR(... 0 row(s) affected

      5 12:56:41 INSERT INTO Employee (Emp_name, Position, Salary, Branch_no) VALUES ('Alice Johnson', 'Libraria... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
```

#### **SELECT \* FROM EMPLOYEE;**

43 • select \* from employee;



#### 3. BOOKS

ISBN - SET AS PRIMARY KEY

BOOK TITLE

CATEGORY

RENTAL PRICE

STATUS [GIVE YES IF BOOK AVAILABLE AND NO IF BOOK NOT AVAILABLE]

#### AUTHOR

#### PUBLISHER

```
CREATE TABLE BOOKS ( ISBN VARCHAR(20) PRIMARY KEY,
BOOK_TITLE VARCHAR(255) NOT NULL,
CATEGORY VARCHAR(50) NOT NULL,
RENTAL_PRICE DECIMAL(10, 2)NOT NULL,
STATUS VARCHAR(3) CHECK (STATUS = 'YES' OR STATUS='NO'),
AUTHOR VARCHAR(100)NOT NULL,
PUBLISHER VARCHAR(100)NOT NULL);
```

```
45 ● ⊖
          CREATE TABLE Books ( ISBN VARCHAR(20) PRIMARY KEY,
 46
           Book title VARCHAR(255) not null,
 47
           Category VARCHAR(50) not null,
 48
           Rental_Price DECIMAL(10, 2)not null,
           Status VARCHAR(3) check (status = 'Yes' or status='No'),
 49
           Author VARCHAR(100) not null,
 50
           Publisher VARCHAR(100)not null);
 51
 52
Action Output
     1 13:18:02 CREATE TABLE Books (ISBN VARCHAR(20) PRIMARY KEY, Book_title VARCHAR(255) not null, ... 0 row(s) affected
```

INSERT INTO BOOKS (ISBN, BOOK\_TITLE, CATEGORY, RENTAL\_PRICE, STATUS, AUTHOR, PUBLISHER) VALUES

('978-3-16-148410-0', 'INTRODUCTION TO SQL', 'EDUCATION', 575.00, 'YES', 'JOHN DOE', 'TECH PUBLISHERS'),

('978-1-234-56789-7', 'ADVANCED SQL TECHNIQUES', 'EDUCATION', 750.00, 'NO', 'JANE SMITH', 'KNOWLEDGE BOOKS'),

('978-0-987-65432-1', 'DATABASE DESIGN PRINCIPLES', 'EDUCATION', 1500.00, 'YES', 'MARK BROWN', 'DATA INSIGHTS'),

('978-3-16-148411-7', 'PYTHON FOR DATA SCIENCE', 'EDUCATION', 1000.00, 'YES', 'EMILY WHITE', 'SCIENCE PRESS').

('978-1-234-56788-0', 'MACHINE LEARNING BASICS', 'TECHNOLOGY', 1500.00, 'NO', 'LAURA GREY', 'TECH WORLD').

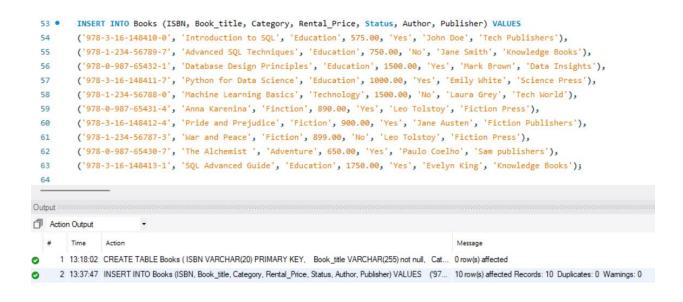
('978-0-987-65431-4', 'ANNA KARENINA', 'FINCTION', 890.00, 'YES', 'LEO TOLSTOY', 'FICTION' PRESS'),

('978-3-16-148412-4', 'PRIDE AND PREJUDICE', 'FICTION', 900.00, 'YES', 'JANE AUSTEN', 'FICTION PUBLISHERS'),

('978-1-234-56787-3', 'WAR AND PEACE', 'FICTION', 899.00, 'NO', 'LEO TOLSTOY', 'FICTION PRESS').

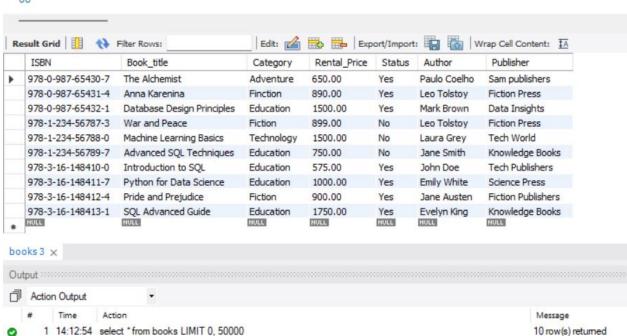
('978-0-987-65430-7', 'THE ALCHEMIST', 'ADVENTURE', 650.00, 'YES', 'PAULO COELHO', 'SAM PUBLISHERS'),

('978-3-16-148413-1', 'SQL ADVANCED GUIDE', 'EDUCATION', 1750.00, 'YES', 'EVELYN KING', 'KNOWLEDGE BOOKS');



#### **SELECT \* FROM BOOKS**;





#### 4. CUSTOMER

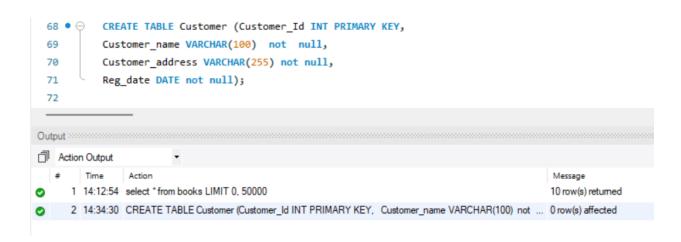
#### CUSTOMER\_ID - SET AS PRIMARY KEY

#### **CUSTOMER NAME**

#### **CUSTOMER ADDRESS**

#### REG\_DATE

CREATE TABLE CUSTOMER (CUSTOMER\_ID INT PRIMARY KEY, CUSTOMER\_NAME VARCHAR(100) NOT NULL, CUSTOMER\_ADDRESS VARCHAR(255) NOT NULL, REG DATE DATE NOT NULL);

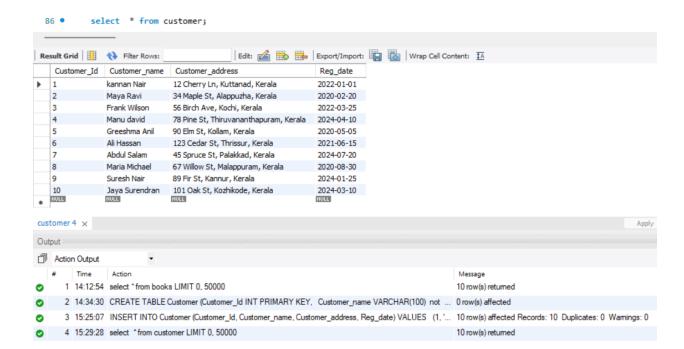


INSERT INTO CUSTOMER (CUSTOMER\_ID, CUSTOMER\_NAME, CUSTOMER\_ADDRESS, REG DATE) VALUES

- (1, 'KANNAN NAIR', '12 CHERRY LN, KUTTANAD, KERALA', '2022-01-01'),
- (2, 'MAYA RAVI', '34 MAPLE ST, ALAPPUZHA, KERALA', '2020-02-20'),
- (3, 'FRANK WILSON', '56 BIRCH AVE, KOCHI, KERALA', '2022-03-25'),
- (4, 'MANU DAVID', '78 PINE ST, THIRUVANANTHAPURAM, KERALA', '2024-04-10'),
- (5, 'GREESHMA ANIL', '90 ELM ST, KOLLAM, KERALA', '2020-05-05'),
- (6, 'ALI HASSAN', '123 CEDAR ST, THRISSUR, KERALA', '2021-06-15'),
- (7, 'ABDUL SALAM', '45 SPRUCE ST, PALAKKAD, KERALA', '2024-07-20'),
- (8, 'MARIA MICHAEL', '67 WILLOW ST, MALAPPURAM, KERALA', '2020-08-30'),
- (9, 'SURESH NAIR', '89 FIR ST, KANNUR, KERALA', '2024-01-25'),
- (10. 'JAYA SURENDRAN', '101 OAK ST, KOZHIKODE, KERALA', '2024-03-10');

```
73 •
           INSERT INTO Customer [Id, Customer_name, Customer_address, Reg_date) VALUES
           (1, 'kannan Nair', '12 Cherry Ln, Kuttanad, Kerala', '2022-01-01'),
           (2, 'Maya Ravi', '34 Maple St, Alappuzha, Kerala', '2020-02-20'),
 75
           (3, 'Frank Wilson', '56 Birch Ave, Kochi, Kerala', '2022-03-25'),
 76
           (4, 'Manu david', '78 Pine St, Thiruvananthapuram, Kerala', '2024-04-10'),
 77
          (5, 'Greeshma Anil', '90 Elm St, Kollam, Kerala', '2020-05-05'),
 78
          (6, 'Ali Hassan', '123 Cedar St, Thrissur, Kerala', '2021-06-15'),
 79
 80
          (7, 'Abdul Salam', '45 Spruce St, Palakkad, Kerala', '2024-07-20'),
 81
          (8, 'Maria Michael', '67 Willow St, Malappuram, Kerala', '2020-08-30'),
          (9, 'Suresh Nair', '89 Fir St, Kannur, Kerala', '2024-01-25'),
           (10, 'Jaya Surendran', '101 Oak St, Kozhikode, Kerala', '2024-03-10');
 85 • ⊖ CREATE TABLE IssueStatus (Issue Id INT PRIMARY KEY,
 86
           Issued cust INT.
           Issued_book_name VARCHAR(255),
 87
 88
           Issue date DATE.
           Isbn_book VARCHAR(20),
Output :::
Action Output
       Time
                                                                                           Message
    1 14:12:54 select * from books LIMIT 0, 50000
                                                                                           10 row(s) returned
2 14:34:30 CREATE TABLE Customer (Customer_Id INT PRIMARY KEY, Customer_name VARCHAR(100) not ... 0 row(s) affected
      3 15:25:07 INSERT INTO Customer_Id, Customer_name, Customer_address, Reg_date) VALUES (1, '... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
```

#### **SELECT \* FROM CUSTOMER:**



#### 5. ISSUESTATUS

#### ISSUE\_ID - SET AS PRIMARY <u>KEY</u>

ISSUED CUST – SET AS FOREIGN KEY AND IT REFER CUSTOMER ID IN CUSTOMER TABLE

ISSUED BOOK NAME

ISSUE DATE

ISBN BOOK – SET AS FOREIGN KEY AND IT SHOULD REFER ISBN IN BOOKS TABLE

CREATE TABLE ISSUESTATUS (ISSUE\_ID INT PRIMARY KEY, ISSUED\_CUST INT NOT NULL, ISSUED\_BOOK\_NAME VARCHAR(255) NOT NULL, ISSUE\_DATE DATE NOT NULL, ISBN\_BOOK VARCHAR(20) NOT NULL, FOREIGN KEY (ISSUED\_CUST) REFERENCES CUSTOMER(CUSTOMER\_ID), FOREIGN KEY (ISBN\_BOOK) REFERENCES BOOKS(ISBN));

INSERT INTO ISSUESTATUS (ISSUE\_ID, ISSUED\_CUST, ISSUED\_BOOK\_NAME, ISSUE DATE, ISBN 800K) VALUES (1, 1, 'INTRODUCTION TO SQL', '2024-01-20', '978-3-16-148410-0'), (2, 2, 'ADVANCED SQL TECHNIQUES', '2024-02-25', '978-1-234-56789-7'), (3, 3, 'DATABASE DESIGN PRINCIPLES', '2024-03-30', '978-0-987-65432-1'), (4, 4, 'PYTHON FOR DATA SCIENCE', '2024-04-15', '978-3-16-148411-7'), (5, 5, 'MACHINE LEARNING BASICS', '2024-05-10', '978-1-234-56788-0'), (6, 6, 'ANNA KARENINA', '2024-06-05', '978-0-987-65431-4'), (7, 7, 'PRIDE AND PREJUDICE', '2024-07-20', '978-3-16-148412-4'), (8, 8, 'WAR AND PEACE', '2024-08-25', '978-1-234-56787-3'), (9, 9, 'THE ALCHEMIST', '2024-09-15', '978-0-987-65430-7'), (10, 10, 'SQL ADVANCED GUIDE', '2024-10-05', '978-3-16-148413-1'); INSERT INTO IssueStatus (Issue Id, Issued cust, Issued book name, Issue date, Isbn book) VALUES (1, 1, 'Introduction to SQL', '2024-01-20', '978-3-16-148410-0'), (2, 2, 'Advanced SQL Techniques', '2024-02-25', '978-1-234-56789-7'), 98 (3, 3, 'Database Design Principles', '2024-03-30', '978-0-987-65432-1'), 99 (4, 4, 'Python for Data Science', '2024-04-15', '978-3-16-148411-7'), 100 (5, 5, 'Machine Learning Basics', '2024-05-10', '978-1-234-56788-0'), 101 (6, 6, 'Anna Karenina', '2024-06-05', '978-0-987-65431-4'), 102 (7, 7, 'Pride and Prejudice', '2024-07-20', '978-3-16-148412-4'), 103 (8, 8, 'War and Peace', '2024-08-25', '978-1-234-56787-3'), 104 (9, 9, 'The Alchemist ', '2024-09-15', '978-0-987-65430-7'), 105 (10, 10, 'SQL Advanced Guide', '2024-10-05', '978-3-16-148413-1'); 106 107 Output Action Output

3 15:25:07 INSERT INTO Customer (Customer\_Id, Customer\_name, Customer\_address, Reg\_date) VALUES (... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

6 18:11:55 INSERT INTO IssueStatus (Issue\_id, Issued\_cust, Issued\_book\_name, Issue\_date, Isbn\_book) V... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

5 18:08:52 CREATE TABLE IssueStatus (Issue\_Id INT PRIMARY KEY, Issued\_cust INT not null, Issued\_bo... 0 row(s) affected

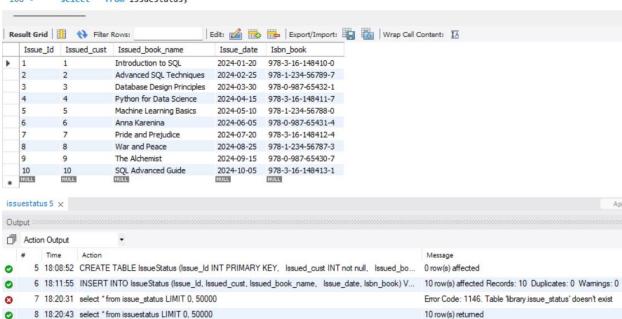
Time

Action

4 15:29:28 select \*from customer LIMIT 0, 50000

#### **SELECT \* FROM ISSUESTATUS;**

108 • select \* from issuestatus;



#### 6. RETURNSTATUS

#### RETURN\_ID - SET AS PRIMARY KEY

RETURN CUST

RETURN BOOK NAME

RETURN DATE

#### ISBN BOOK2 - SET AS FOREIGN KEY AND IT SHOULD REFER ISBN IN BOOKS TABLE

```
CREATE TABLE RETURNSTATUS(RETURN_ID INT PRIMARY KEY,
RETURN_CUST INT,
RETURN_BOOK_NAME VARCHAR(255),
RETURN_DATE DATE,
ISBN_BOOK VARCHAR(20),
FOREIGN KEY (RETURN_CUST) REFERENCES CUSTOMER(CUSTOMER_ID),
FOREIGN KEY (ISBN_BOOK) REFERENCES BOOKS(ISBN));
```

```
110 • ⊖ CREATE TABLE ReturnStatus(Return Id INT PRIMARY KEY,
111
           Return_cust INT,
          Return_book_name VARCHAR(255),
112
113
          Return_date DATE,
114
         Isbn_book VARCHAR(20),
         FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),
115
         FOREIGN KEY (Isbn_book) references Books(ISBN));
117
Output :::
Action Output
      Time
                Action
                                                                                            Message
    1 10:33:39 use library
                                                                                           0 row(s) affected
```

2 10:33:45 CREATE TABLE RetumStatus(Retum\_Id INT PRIMARY KEY, Retum\_cust INT, Retum\_book\_name V... 0 row(s) affected

```
INSERT INTO RETURNSTATUS (RETURN ID, RETURN CUST, RETURN BOOK NAME,
 RETURN DATE, ISBN BOOK) VALUES
 (1, 1, 'INTRODUCTION TO SQL', '2024-02-01', '978-3-16-148410-0'),
 (2, 2, 'ADVANCED SQL TECHNIQUES', '2024-03-01', '978-1-234-56789-7'),
 (3, 3, 'DATABASE DESIGN PRINCIPLES', '2024-04-01', '978-0-987-65432-1'),
 (4, 4, 'PYTHON FOR DATA SCIENCE', '2024-05-01', '978-3-16-148411-7'),
 (5, 5, 'MACHINE LEARNING BASICS', '2024-06-01', '978-1-234-56788-0'),
 (6, 6, 'ANNA KARENINA', '2024-07-01', '978-0-987-65431-4'),
 (7, 7, 'PRIDE AND PREJUDICE', '2024-08-01', '978-3-16-148412-4'),
 (8, 8, 'WAR AND PEACE', '2024-09-01', '978-1-234-56787-3'),
 (9, 9, 'THE ALCHEMIST', '2024-10-01', '978-0-987-65430-7'),
 (10, 10, 'SQL ADVANCED GUIDE', '2024-11-01', '978-3-16-148413-1');
         INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name,
 119
         Return_date, Isbn_book) VALUES (1, 1, 'Introduction to SQL', '2024-02-01', '978-3-16-148410-0'),
         (2, 2, 'Advanced SQL Techniques', '2024-03-01', '978-1-234-56789-7'),
         (3, 3, 'Database Design Principles', '2024-04-01', '978-0-987-65432-1'),
         (4, 4, 'Python for Data Science', '2024-05-01', '978-3-16-148411-7'),
         (5, 5, 'Machine Learning Basics', '2024-06-01', '978-1-234-56788-0'),
        (6, 6, 'Anna Karenina', '2024-07-01', '978-0-987-65431-4'),
        (7, 7, 'Pride and Prejudice', '2024-08-01', '978-3-16-148412-4'),
        (8, 8, 'War and Peace', '2024-09-01', '978-1-234-56787-3'),
        (9, 9, 'The Alchemist', '2024-10-01', '978-0-987-65430-7'),
         (10, 10, 'SQL Advanced Guide', '2024-11-01', '978-3-16-148413-1');
 130
 131
 132
Output
Action Output
      Time
             Action
                                                                           Message
     1 10:33:39 use library
                                                                           0 row(s) affected
    2 10:33:45 CREATE TABLE Return Status (Return Id INT PRIMARY KEY, Return cust INT, Return book name V... 0 row(s) affected
```

3 10:34:13 INSERT INTO ReturnStatus (Return\_Id, Return\_cust, Return\_book\_name, Return\_date, Isbn\_book) VA... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

#### 130 • select \* from ReturnStatus;

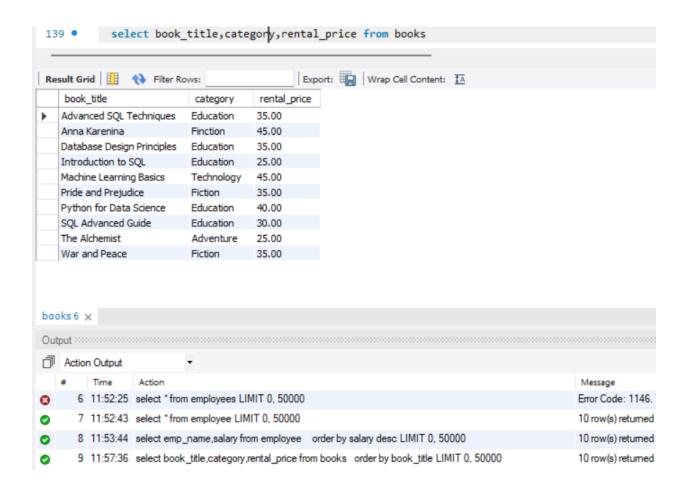
		The second contract	Town and a second second	-	
	Return_Id	Return_cust	Return_book_name	Return_date	Isbn_book
•	1	1	Introduction to SQL	2024-02-01	978-3-16-148410-0
	2	2	Advanced SQL Techniques	2024-03-01	978-1-234-56789-7
	3	3	Database Design Principles	2024-04-01	978-0-987-65432-1
	4	4	Python for Data Science	2024-05-01	978-3-16-148411-7
	5	5	Machine Learning Basics	2024-06-01	978-1-234-56788-0
	6	6	Anna Karenina	2024-07-01	978-0-987-65431-4
	7	7	Pride and Prejudice	2024-08-01	978-3-16-148412-4
	8	8	War and Peace	2024-09-01	978-1-234-56787-3
	9	9	The Alchemist	2024-10-01	978-0-987-65430-7
	10	10	SQL Advanced Guide	2024-11-01	978-3-16-148413-1
	NULL	NULL	NULL	NULL	NULL

#### Display all the tables

Write the following queries:

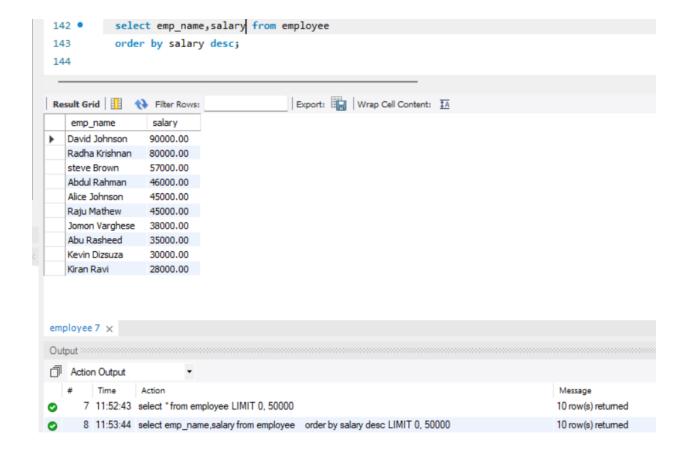
1. Retrieve the book title, category, and rental price of all available books.

# SELECT BOOK\_TITLE,CATEGORY,RENTAL\_PRICE FROM BOOKS ORDER BY BOOK\_TITLE;



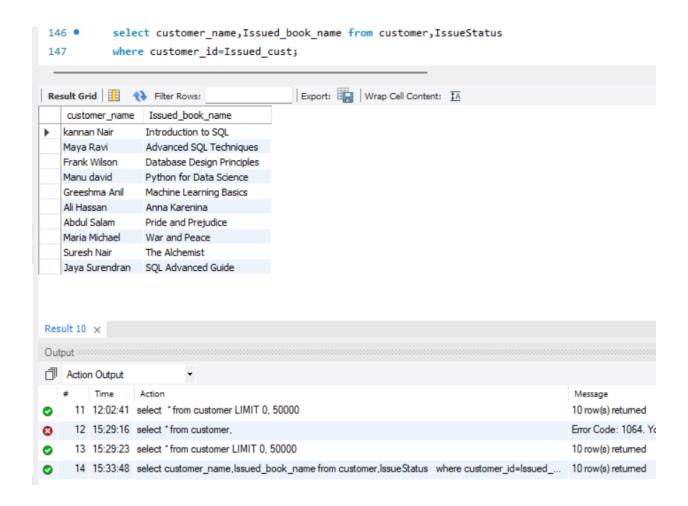
2. List the employee names and their respective salaries in descending order of salary.

# SELECT EMP\_NAME, SALARY FROM EMPLOYEE ORDER BY SALARY DESC;



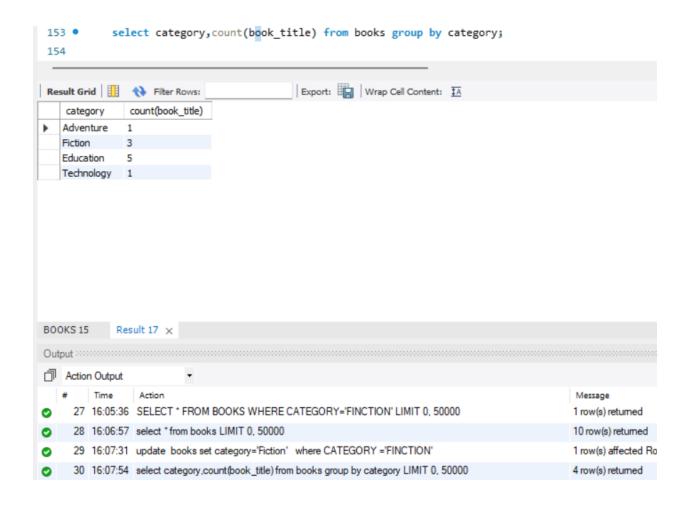
3. Retrieve the book titles and the corresponding customers who have issued those books.

## SELECT CUSTOMER\_NAME,ISSUED\_BOOK\_NAME FROM CUSTOMER,ISSUESTATUS WHERE CUSTOMER\_ID=ISSUED\_CUST;



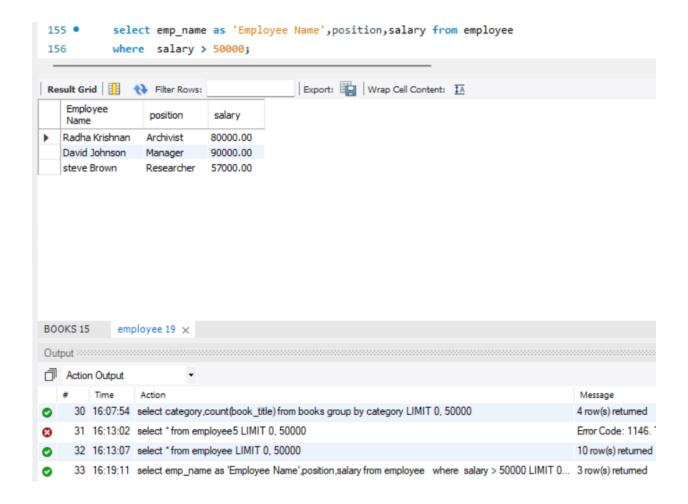
4. Display the total count of books in each category.

### SELECT CATEGORY, COUNT (BOOK\_TITLE) FROM BOOKS GROUP BY CATEGORY;



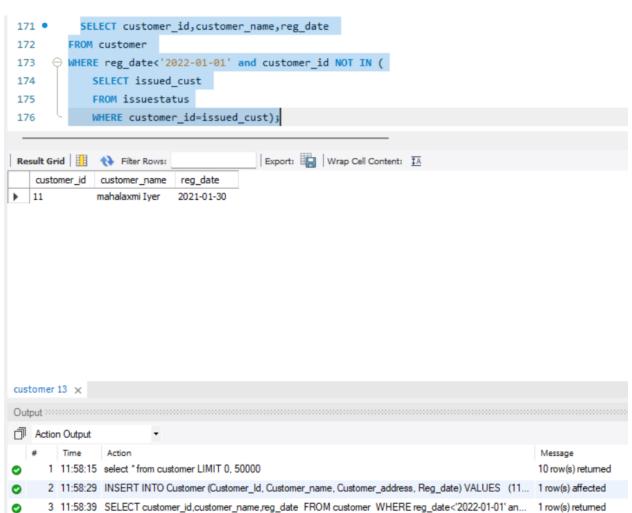
5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.

## SELECT EMP\_NAME AS 'EMPLOYEE NAME', POSITION, SALARY FROM EMPLOYEE WHERE SALARY > 50000;



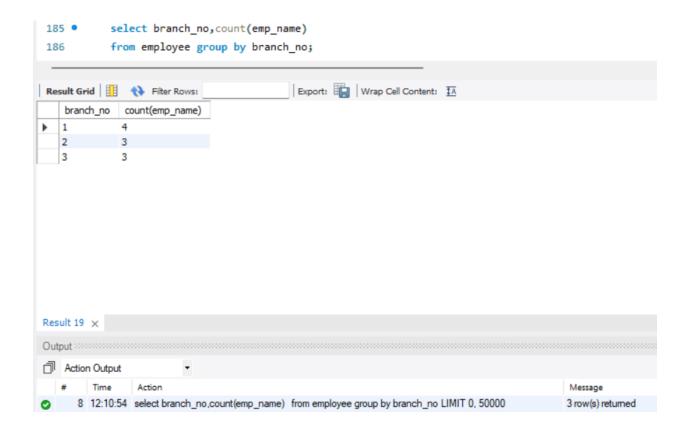
6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

# SELECT CUSTOMER\_ID,CUSTOMER\_NAME,REG\_DATE FROM CUSTOMER WHERE REG\_DATE<'2022-01-01' AND CUSTOMER\_ID NOT IN ( SELECT ISSUED\_CUST FROM ISSUESTATUS WHERE CUSTOMER\_ID=ISSUED\_CUST);



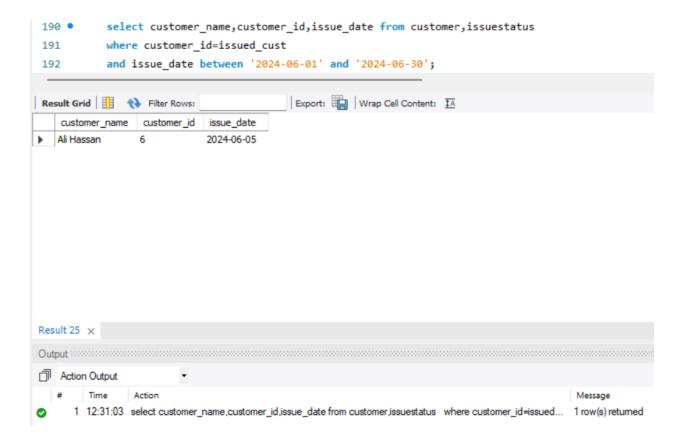
7. Display the branch numbers and the total count of employees in each branch.

SELECT BRANCH\_NO,COUNT(EMP\_NAME)
FROM EMPLOYEE GROUP BY BRANCH\_NO;



8. Display the names of customers who have issued books in the month of June 2024.

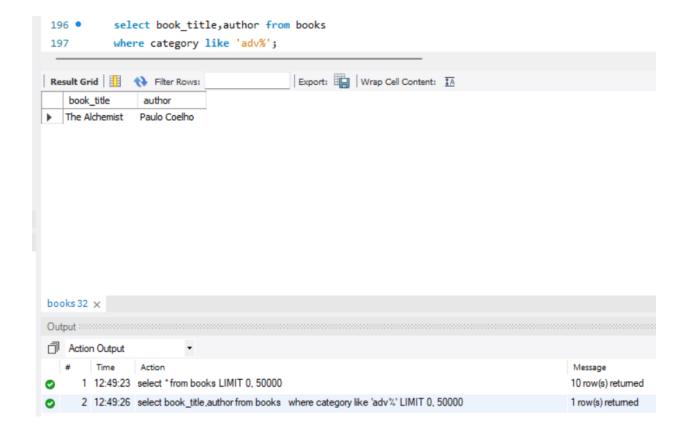
SELECT CUSTOMER\_NAME, CUSTOMER\_ID, ISSUE\_DATE FROM CUSTOMER, ISSUESTATUS WHERE CUSTOMER\_ID=ISSUED\_CUST
AND ISSUE\_DATE BETWEEN '2024-06-01' AND '2024-06-30';



9. Retrieve book\_title from book table containing Adventure.

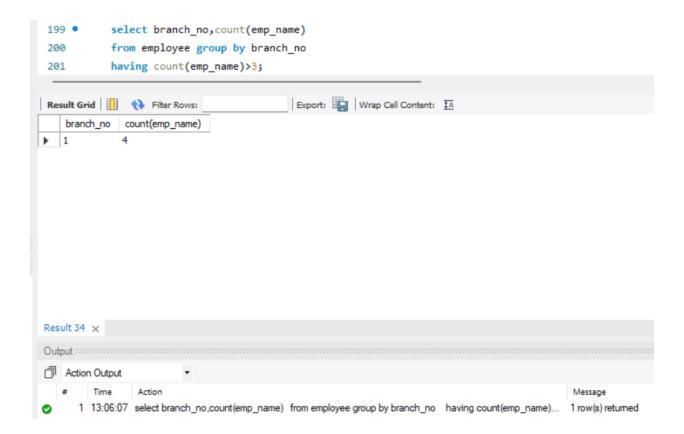
#### SELECT BOOK\_TITLE, AUTHOR FROM BOOKS

#### WHERE CATEGORY LIKE 'ADV%';



10.Retrieve the branch numbers along with the count of employees for branches having more than 3 employees

SELECT BRANCH\_NO,COUNT(EMP\_NAME) FROM EMPLOYEE GROUP BY BRANCH\_NO HAVING COUNT(EMP\_NAME)>3;

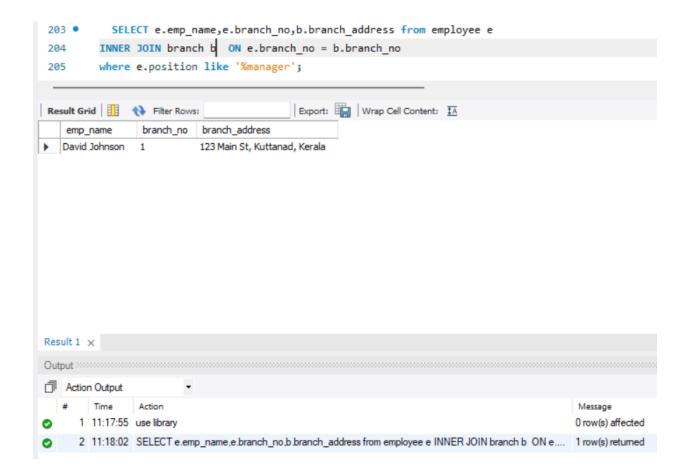


10. Retrieve the names of employees who manage branches and their respective branch addresses.

SELECT E.EMP\_NAME,E.BRANCH\_NO,B.BRANCH\_ADDRESS FROM EMPLOYEE E

INNER JOIN BRANCH B ON E.BRANCH\_NO = B.BRANCH\_NO

WHERE E.POSITION LIKE '%MANAGER';



11. Display the names of customers who have issued books with a rental price higher than Rs. 25.

```
SELECT
CUSTOMER_ID,CUSTOMER_NAME,
BOOK_TITLE,RENTAL_PRICE
FROM
BOOKS
JOIN
ISSUESTATUS ON ISBN_BOOK = ISBN
JOIN
CUSTOMER ON ISSUED_CUST = CUSTOMER_ID
WHERE
RENTAL_PRICE>25
ORDER BY CUSTOMER_ID;
```

```
218 •
          SELECT
219
        customer_id,customer_name,
        book_title, rental_price
220
        FROM
221
222
        books
223
         JOIN
        issuestatus ON ISBN_book = isbn
224
         JOIN
225
        customer ON issued_cust = customer_id
226
        WHERE
227
        rental_price>25
228
229
        order by customer_id;
230
```

