

```
CREATE DATABASE Library;
```

```
USE Library;
```

```
CREATE TABLE Branch (  
    Branch_no INT PRIMARY KEY,  
    Manager_Id INT,  
    Branch_address VARCHAR(200),  
    Contact_no VARCHAR(20)  
);
```

```
CREATE TABLE Employee (  
    Emp_Id INT PRIMARY KEY,  
    Emp_name VARCHAR(50),  
    Position VARCHAR(50),  
    Salary DECIMAL(10, 2),  
    Branch_no INT,  
    FOREIGN KEY (Branch_no) REFERENCES Branch(Branch_no)  
);
```

```
CREATE TABLE Books (  
    ISBN VARCHAR(20) PRIMARY KEY,  
    Book_title VARCHAR(100),  
    Category VARCHAR(50),  
    Rental_Price DECIMAL(10, 2),
```

```
Status VARCHAR(10),  
  
Author VARCHAR(50),  
  
Publisher VARCHAR(50)  
);
```

```
CREATE TABLE Customer (  
  
Customer_Id INT PRIMARY KEY,  
  
Customer_name VARCHAR(50),  
  
Customer_address VARCHAR(200),  
  
Reg_date DATE  
);
```

```
CREATE TABLE IssueStatus (  
  
Issue_Id INT PRIMARY KEY,  
  
Issued_cust INT,  
  
Issued_book_name VARCHAR(100),  
  
Issue_date DATE,  
  
Isbn_book VARCHAR(20),  
  
FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),  
  
FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)  
);
```

```
CREATE TABLE ReturnStatus (  
  
Return_Id INT PRIMARY KEY,  
  
Return_cust INT,
```

```
Return_book_name VARCHAR(100),  
Return_date DATE,  
Isbn_book2 VARCHAR(20),  
FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)  
);
```

```
-- 1
```

```
SELECT Book_title, Category, Rental_Price  
FROM Books  
WHERE Status = 'yes';
```

```
-- 2
```

```
SELECT Emp_name, Salary  
FROM Employee  
ORDER BY Salary DESC;
```

-- 3

```
SELECT B.Book_title, C.Customer_name
FROM Books B
JOIN IssueStatus I ON B.ISBN = I.Isbn_book
JOIN Customer C ON I.Issued_cust = C.Customer_Id;
```

-- 4

```
SELECT Category, COUNT(*)
FROM Books
GROUP BY Category;
```

-- 5

```
SELECT Emp_name, Position
FROM Employee
WHERE Salary > 50000;
```

-- 6

```
SELECT Customer_name
FROM Customer
WHERE Reg_date < '2022-01-01'
AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
```

-- 7

```
SELECT B.Branch_no, COUNT(*)
FROM Branch B
JOIN Employee E ON B.Branch_no = E.Branch_no
GROUP BY B.Branch_no;
```

-- 8

```
SELECT C.Customer_name
FROM Customer C
JOIN IssueStatus I ON C.Customer_Id = I.Issued_cust
WHERE MONTH(Issue_date) = 6 AND YEAR(Issue_date) = 2023;
```

-- 9

```
SELECT Book_title
FROM Books
WHERE Book_title LIKE '%history%';
```

-- 10

```
SELECT B.Branch_no, COUNT(*)
FROM Branch B
JOIN Employee E ON B.Branch_no = E.Branch_no
GROUP BY B.Branch_no
HAVING COUNT(*) > 5;
```

-- 11

```
SELECT E.Emp_name, B.Branch_address
FROM Employee E
```

```
JOIN Branch B ON E.Emp_Id = B.Manager_Id;
```

```
-- 12
```

```
SELECT C.Customer_name
```

```
FROM Customer C
```

```
JOIN IssueStatus I ON C.Customer_Id = I.Issued_cust
```

```
JOIN Books B ON I.Isbn_book = B.ISBN
```

```
WHERE B.Rental_Price > 25;
```