**Project**

Query

create database library ;

use library ;

create table Branch(

Branch\_no int PRIMARY KEY ,

Manager\_Id int,

Branch\_address varchar(100),

Contact\_no float(10) unique

);

create table Employee(

Emp\_Id int PRIMARY KEY,

Emp\_name varchar(50),

Position varchar(50),

Salary int,

Branch\_no int,

FOREIGN KEY (Branch\_no)references Branch(Branch\_no)

);

create table Books(

ISBN int PRIMARY KEY,

Book\_title varchar(100),

Category varchar(100),

Rental\_Price int,

Status int check (Status <>0),

Author varchar(100),

Publisher varchar(100)

);

create table Customer(

Customer\_Id int PRIMARY KEY ,

Customer\_name varchar(100),

Customer\_address varchar(100),

Reg\_date date

);

create table IssueStatus(

Issue\_Id int PRIMARY KEY,

Issued\_cust int,

FOREIGN KEY (Issued\_cust)references CUSTOMER(customer\_id),

Issue\_date date ,

ISBN\_book int ,

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 int ,

FOREIGN KEY (Isbn\_book2)references BOOKS(ISBN)

);

Insert into branch (Branch\_no,Manager\_Id,Branch\_address,Contact\_no) values

(101,1001,'kumarapuram',9998512315),

(102,1002,'medical colage',9512365487),

(103,1003,'ullor',9874562135),

(104,1004,'sreekayram',9826956204),

(105,1005,'kayivattom',9556956205),

(106,1006,'techinopark',7654216212),

(107,1007,'ust',8586847541),

(108,1008,'lulu\_mall',8485848954),

(109,1009,'mot',8451623512),

(110,1010,'patta',9856321475);

Insert into Employee (Emp\_Id,Emp\_name,Position,Salary,Branch\_no) values

(1001,'arun','manager',51000,101),

(1002,'vishnu','manager',51000,102),

(1003,'manu','manager',25000,103),

(1004,'niyas','manager',25000,104),

(1005,'priya','manager',25000,105),

(1006,'akhil','manager',25000,106),

(1007,'gokul','manager',50500,107),

(1008,'anathu','manager',50500,108),

(1009,'reshma','manager',25000,109),

(1010,'jagan','manager',25000,110),

(10011,'raju','csa',16000,101),

(10012,'karthik','csa',18000,101),

(10021,'raju','csa',16000,102),

(10022,'karthika','csa',18000,102),

(10031,'remesh','csa',16000,103),

(10032,'saji','csa',18000,103),

(10041,'prasad','csa',16000,104),

(10042,'gopal','csa',18000,104),

(10051,'sunil','csa',16000,105),

(10052,'suni','csa',18000,105),

(10061,'anjana','csa',16000,106),

(10062,'parvathy','csa',18000,106),

(10071,'vineeth','csa',16000,101),

(10072,'midhun','csa',18000,107),

(10081,'anju','csa',16000,108),

(10082,'praveen','csa',18000,101),

(10091,'samson','csa',16000,109),

(10092,'thomas','csa',18000,109),

(10101,'rakesh','csa',16000,101),

(10102,'kamal','csa',18000,110);

Insert into Books (ISBN,Book\_title,Category,Rental\_Price,Status,Author,Publisher) values

(51,'To Kill a Mockingbird','Classics',25,1,'Harper Lee','Harper Perennial Modern Classics'),

(52,'The Great Gatsby','Fiction',30,1,'F. Scott Fitzgerald','Scribner'),

(53,'Harry Potter and the Sorcerer’s Stone','Fantasy',25,1,'J.K. Rowling','Pottermore Publishing'),

(54,'Animal Farm','Classics',25,1,'George Orwell','Signet Classics'),

(55,'1984','Classics',25,1,'George Orwell','Plume'),

(56,'The Hobbit','Fantasy',25,1,'J.R.R. Tolkien',' Houghton Mifflin'),

(57,'The Little Prince','Fantasy',25,1,'Antoine de Saint-Exupéry','Harcourt'),

(58,'Fahrenheit 451','Fiction',30,1,'Ray Bradbury','Simon & Schuster'),

(59,'The Catcher in the Rye','Classics',25,1,'J.D. Salinger','Back Bay Books'),

(60,'The Lion,the Witch and the Wardrobe','Fantasy',25,1,'C.S. Lewis',' HarperCollins Publishers');

Insert into Customer (Customer\_Id,Customer\_name,Customer\_address,Reg\_date) values

(0001,'madhulal','kumarapuram','2020-12-02'),

(0002,'viji','medical colage','2020-12-07'),

(0003,'bivina','ullor','2020-12-12'),

(0004,'arun\_das','sreekayram','2020-12-22'),

(0005,'vishnu\_l','kayivattom','2020-12-26'),

(0006,'bivinlal','techinopark','2020-12-05'),

(0007,'babin\_santhosh','ust','2020-12-09'),

(0008,'krishna\_priya','lulu\_mall','2020-12-03'),

(0009,'anathu\_shaji','mot','2020-12-06'),

(00010,'athul','patta','2020-12-12');

Insert into IssueStatus (Issue\_Id,Issued\_cust,Issue\_date,ISBN\_book) values

(1,0001,'2020-12-02',51),

(2,0002,'2021-01-07',52),

(3,0003,'2021-06-12',53),

(4,0004,'2021-06-22',55),

(5,0005,'2021-08-26',58),

(6,0006,'2021-09-05',60),

(7,0007,'2021-12-09',54),

(8,0008,'2022-01-03',59),

(9,0009,'2022-02-06',57),

(10,00010,'2022-03-12',56),

(11,0007,'2022-06-19',52),

(12,0002,'2022-06-17',55),

(13,0004,'2022-12-31',54);

Insert into ReturnStatus (Return\_Id,Return\_cust,Return\_book\_name,Return\_date,Isbn\_book2) values

(1,0007,'Animal Farm','2022-06-19',54),

(2,0002,'The Great Gatsby','2022-06-17',52),

(3,0004,'1984','2022-12-31',55),

(4,0008,'The Catcher in the Rye','2023-01-05',59),

(5,0001,'To Kill a Mockingbird','2023-01-08',51);

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

select Book\_title,Category,Rental\_Price from Books;

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

select Emp\_name,Salary from Employee order by Salary desc;

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

select Book\_title,Customer\_name from Books,IssueStatus,Customer where Books.ISBN=IssueStatus.ISBN\_book and Customer.Customer\_Id=IssueStatus.Issued\_cust;

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

select Category,count(\*)as 'no of books' from Books group by Category;

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

select Emp\_name,Position from Employee where Salary>50000;

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

select Customer\_name from Customer where Reg\_date<'2022-01-01';

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

select Branch\_no,count(\*)as 'no of employees' from Employee group by Branch\_no;

-- Display the names of customers who have issued books in the month of June 2022.

SELECT C.CUSTOMER\_NAME,I.ISSUE\_DATE FROM CUSTOMER C JOIN ISSUESTATUS I ON I.ISSUED\_CUST=C.CUSTOMER\_ID WHERE I.ISSUE\_DATE BETWEEN '2022-06-01' AND '2022-06-30';

-- Retrieve book\_title from book table containing Fantasy.

select Book\_title from Books where Category = 'Fantasy';

-- Retrieve the branch numbers along with the count of employees for branches having more than 5 employees

select Branch\_no,count(\*)as 'no of employees' from Employee group by Branch\_no having count(\*)>5;

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

select Employee.Emp\_name,branch.Branch\_address from Employee inner join branch on Employee.Emp\_Id = branch.Manager\_Id;

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

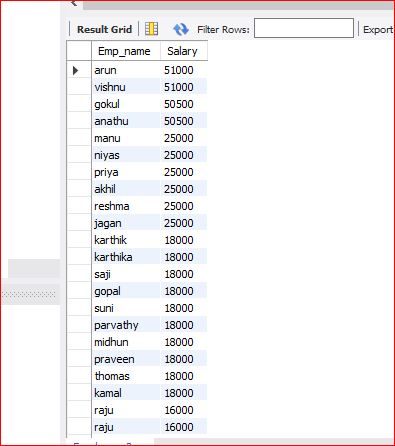
SELECT C.CUSTOMER\_NAME, B.BOOK\_TITLE, B.RENTAL\_PRICE FROM ISSUESTATUS I JOIN BOOKS B ON I.ISBN\_BOOK = B.ISBN JOIN CUSTOMER C ON I.ISSUED\_CUST = C.CUSTOMER\_ID WHERE B.RENTAL\_PRICE > 25;

**RESULT**

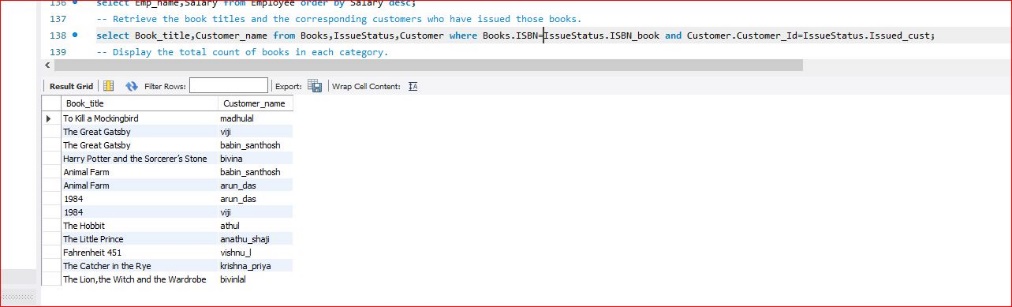
1. Retrieve the book title, category, and rental price of all available books.



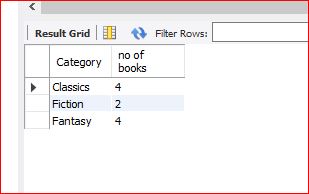
1. List the employee names and their respective salaries in descending order of salary.



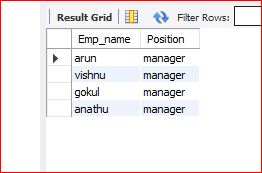
1. Retrieve the book titles and the corresponding customers who have issued those books.



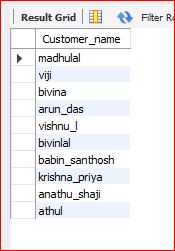
1. Display the total count of books in each category.



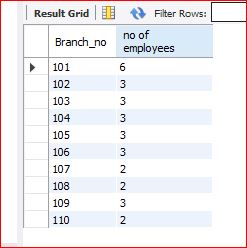
1. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



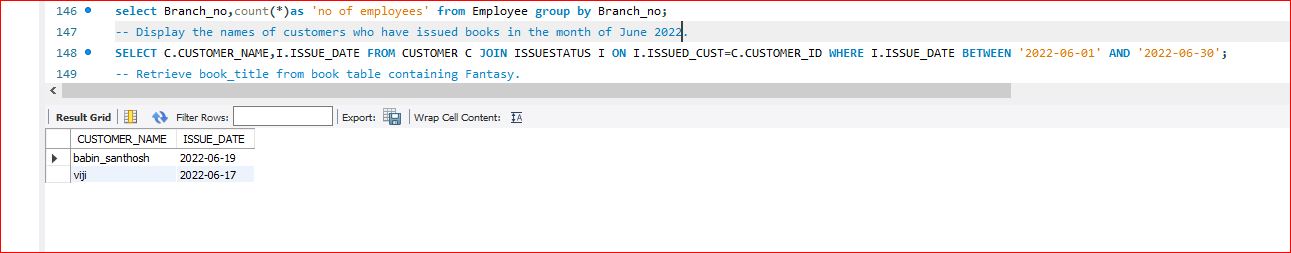
1. List the customer names who registered before 2022-01-01 and have not issued any books yet.



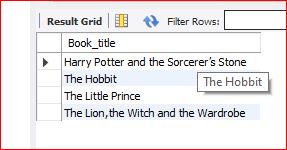
1. Display the branch numbers and the total count of employees in each branch.



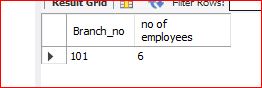
1. Display the names of customers who have issued books in the month of June 2023.



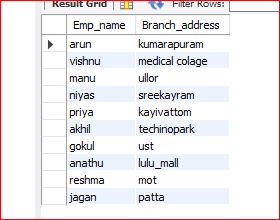
1. Retrieve book\_title from book table containing Fantasy.



1. Retrieve the branch numbers along with the count of employees for branches having more than 5 employees



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



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

