**1. Branch Branch\_no - Set as PRIMARY KEY Manager\_Id Branch\_address Contact\_no**

-- Create Branch table

CREATE TABLE Branch (

Branch\_No INT PRIMARY KEY,

Manager\_ID INT,

Branch\_Address VARCHAR(300),

Contact\_No VARCHAR(15)

);

INSERT INTO Branch (Branch\_no, Manager\_Id, Branch\_address, Contact\_no)

VALUES

(1, 1001, '123 Riyadh, Saudi Arabia', '1234567891'),

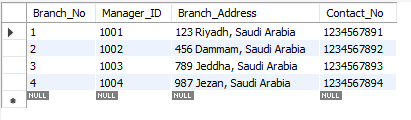
(2, 1002, '456 Dammam, Saudi Arabia', '1234567892'),

(3, 1003, '789 Jeddha, Saudi Arabia', '1234567893'),

(4, 1004, '987 Jezan, Saudi Arabia', '1234567894')

;

SELECT \* FROM Branch;



**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 Employee table

CREATE TABLE Employee (

Emp\_ID INT PRIMARY KEY,

Emp\_Name VARCHAR(150),

Position VARCHAR(100),

Salary DECIMAL(10,2),

Branch\_No INT,

FOREIGN KEY (Branch\_No) REFERENCES Branch(Branch\_No)

);

INSERT INTO Employee (Emp\_ID, Emp\_Name, Position, Salary, Branch\_No)

VALUES

(001, 'Naser Al Qahtani', 'Manager', 75000.00, 1),

(002, 'Salem Al Darbas', 'Sales Associate', 45000.00, 2),

(003, 'Ashraf Muhammed', 'Accountant', 55000.00, 3),

(004, 'David John', 'HR Specialist', 60000.00, 4),

(005, 'Ram Kumar', 'Manager', 75000.00, 2),

(006, 'Basith Soudath Manzil', 'Sales Associate', 45000.00, 3),

(007, 'Ramsey Sudheer', 'Accountant', 55000.00, 4),

(008, 'Yusuf Alam', 'HR Specialist', 60000.00, 1),

(009, 'Seema Kadhar', 'Manager', 75000.00, 1),

(010, 'Senthil Kumar', 'Sales Associate', 40000.00, 2),

(011, 'Samal Muhammad', 'Accountant', 56000.00, 3),

(012, 'Justin Jacob', 'HR Specialist', 60000.00, 4),

(013, 'Rose Rustin', 'Manager', 75000.00, 2),

(014, 'Roopesh Kumar', 'Sales Associate', 45000.00, 3),

(015, 'Rangannan Jr', 'Accountant', 55000.00, 4),

(016, 'Najir Ramesh', 'HR Specialist', 60000.00, 1),

(017, 'Naseem Sukoor', 'Accountant', 43000.00, 1),

(018, 'Saleem Raj', 'Sales Associate', 45000.00, 4),

(019, 'Alam Vinod', 'Sales Associate', 55000.00, 3),

(020, 'Reshma Raj', 'Accountant', 43000.00, 4),

(021, 'Ranjan Raj', 'Accountant', 45000.00, 1),

(022, 'Basil Ramesh', 'Sales Associate', 45000.00, 3),

(023, 'Yami Sharan', 'Sales Associate', 55000.00, 4),

(024, 'Yani Goutham', 'Sales Associate', 40000.00, 1),

(025, 'Christina Raj', 'Sales Associate', 55000.00, 3),

(026, 'Farncis Ramesh', 'Sales Associate', 60000.00, 4),

(027, 'Sunil Pradhan', 'Accountant', 75000.00, 1),

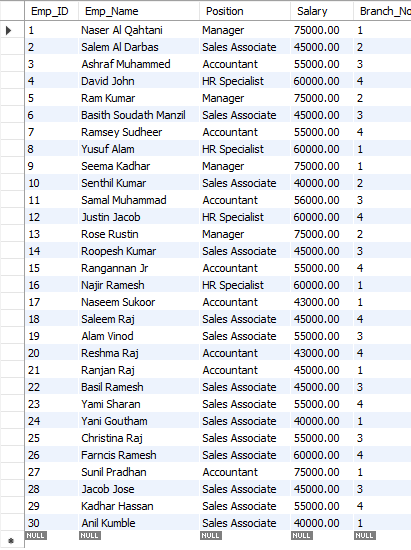
(028, 'Jacob Jose', 'Sales Associate', 45000.00, 3),

(029, 'Kadhar Hassan', 'Sales Associate', 55000.00, 4),

(030, 'Anil Kumble', 'Sales Associate', 40000.00, 1)

;

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 Books table

CREATE TABLE Books (

ISBN VARCHAR(13) PRIMARY KEY,

Book\_Title VARCHAR(255),

Category VARCHAR(100),

Rental\_Price DECIMAL(10,2),

Status VARCHAR(3) CHECK(Status IN ('Yes','No')),

Author VARCHAR(255),

Publisher VARCHAR(255)

);

INSERT INTO Books (ISBN, Book\_Title, Category, Rental\_Price, Status, Author, Publisher)

VALUES

('0987654321001', 'ZYX', 'Thriller', 10.00, 'Yes', 'John Honayi', 'LMN'),

('0987654321002', 'WVU', 'Anime', 5.00, 'No', 'James Cameroon ', 'IJK'),

('0987654321003', 'TSR', 'Comic', 6.00, 'Yes', 'Christopher Nolan', 'FGH'),

('0987654321004', 'QPO', 'Horror', 18.00, 'Yes', 'Shashank Aravind', 'CDE'),

('0987654321005', 'NML', 'History', 15.00, 'Yes', 'John Honayi', 'LMN'),

('0987654321006', 'KJI', 'Comic', 5.00, 'Yes', 'James Bond ', 'LMN'),

('0987654321007', 'HGF', 'History', 26.00, 'Yes', 'Christopher Nolan', 'FGH'),

('0987654321008', 'EDC', 'History', 30.00, 'Yes', 'Aravind Shankar', 'FGH'),

('0987654321009', 'History Of Football', 'History', 15.00, 'Yes', 'Aravind Shankar', 'LMN'),

('0987654321010', 'Poppeye', 'Comic', 5.00, 'Yes', 'James Bond ', 'CDE'),

('0987654321011', 'History Of The Great China Wall', 'History', 26.00, 'Yes', 'Christopher Nolan', 'IJK'),

('0987654321012', 'Russian History Of Culinary', 'History', 30.00, 'Yes', 'Aravind Shankar', 'CDE')

;

SELECT \* FROM Books;



**4. Customer Customer\_Id - Set as PRIMARY KEY Customer\_name Customer\_address Reg\_date**

-- Create Customer table

CREATE TABLE Customer (

Customer\_ID INT PRIMARY KEY,

Customer\_Name VARCHAR(255),

Customer\_Address VARCHAR(255),

Reg\_Date DATE

);

INSERT INTO Customer (Customer\_ID, Customer\_Name, Customer\_Address, Reg\_Date)

VALUES

(1, 'Rama Banu', '098 Dammam, Saudi Arabia', '2023-05-15'),

(2, 'Anwar Rajeev', '765 Riyadh, Saudi Arabin', '2024-01-22'),

(3, 'Lensin Francis', '432 Jeddah, Saudi Arabi', '2022-08-10'),

(4, 'Dhaliya Sudheer', '109 Jezan, Saudi Arabi', '2023-11-05'),

(5, 'Ramesh Raj', '890 Dammam, Saudi Arabia', '2021-05-15'),

(6, 'Raju Rama', '567 Riyadh, Saudi Arabin', '2020-01-22'),

(7, 'Vidya Unni', '234 Jeddah, Saudi Arabi', '2022-09-13'),

(8, 'Kamaraj CP', '901 Jezan, Saudi Arabi', '2019-11-15'),

(9, 'Sharukh Khan', '809 Dammam, Saudi Arabia', '2023-06-15'),

(10, 'Salman Khan', '576 Riyadh, Saudi Arabin', '2023-06-22'),

(11, 'Ameer Khan', '243 Jeddah, Saudi Arabi', '2022-09-13'),

(12, 'Santhosh Pndit', '910 Jezan, Saudi Arabi', '2023-06-15')

;

SELECT \* FROM Customer;



**5. IssueStatus Issue\_Id - Set as PRIMARY KEY 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 IssueStatus table

CREATE TABLE IssueStatus (

Issue\_ID INT PRIMARY KEY,

Issued\_Cust INT,

Issued\_Book\_Name VARCHAR(255),

Issue\_Date DATE,

ISBN\_Book VARCHAR(13),

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\_Book)

VALUES

(1, 1, 'ZYX', '2024-09-01', '0987654321001'),

(2, 3, 'WVU', '2024-10-25', '0987654321002'),

(3, 2, 'TSR', '2024-11-02', '0987654321003'),

(4, 4, 'QPO', '2024-12-03', '0987654321004'),

(5, 10, 'ZYX', '2023-06-23', '0987654321001'),

(6, 9, 'WVU', '2023-06-25', '0987654321002'),

(7, 12, 'TSR', '2023-06-16', '0987654321003'),

(8, 11, 'QPO', '2024-12-03', '0987654321004'),

(9, 10, 'NML', '2023-06-23', '0987654321005'),

(10, 9, 'KJI', '2023-06-25', '0987654321006'),

(11, 12, 'HGF', '2023-06-16', '0987654321007'),

(12, 11, 'EDC', '2024-12-03', '0987654321008'),

(13, 10, 'History Of Football', '2023-06-23', '0987654321009'),

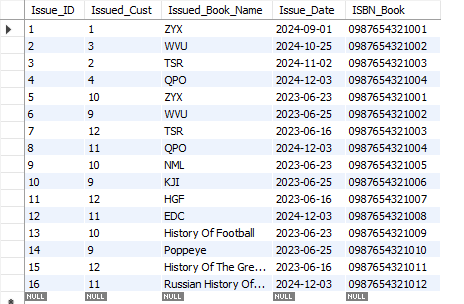
(14, 9, 'Poppeye', '2023-06-25', '0987654321010'),

(15, 12, 'History Of The Great China Wall', '2023-06-16', '0987654321011'),

(16, 11, 'Russian History Of Culinary', '2024-12-03', '0987654321012')

;

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 ReturnStatus table

CREATE TABLE ReturnStatus (

Return\_ID INT PRIMARY KEY,

Return\_Cust INT,

Return\_Book\_Name VARCHAR(255),

Return\_Date DATE,

ISBN\_Book2 VARCHAR(13),

FOREIGN KEY (Return\_Cust) REFERENCES Customer(Customer\_ID),

FOREIGN KEY (ISBN\_Book2) REFERENCES Books(ISBN)

);

INSERT INTO ReturnStatus (Return\_ID, Return\_Cust, Return\_Book\_Name, Return\_Date, ISBN\_Book2)

VALUES

(1, 1, 'ZYX', '2024-09-05', '0987654321001'),

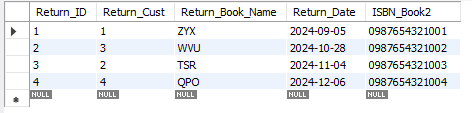
(2, 3, 'WVU', '2024-10-28', '0987654321002'),

(3, 2, 'TSR', '2024-11-04', '0987654321003'),

(4, 4, 'QPO', '2024-12-06', '0987654321004')

;

SELECT \* FROM ReturnStatus;



**Display all the tables and Write the queries for the following :**

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

SELECT Book\_Title, Category, Rental\_Price

FROM Books

WHERE Status = 'yes';

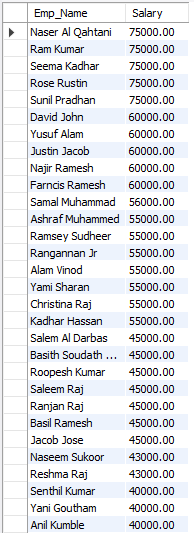
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**2. List the employee names and their respective salaries in descending order of salary.**

SELECT Emp\_Name, Salary

FROM Employee

ORDER BY Salary DESC;



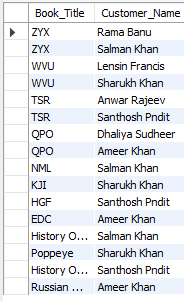
**3. Retrieve the book titles and the corresponding customers who have issued those books.**

SELECT B.Book\_Title, C.Customer\_Name

FROM IssueStatus I

JOIN Books B ON I.ISBN\_Book = B.ISBN

JOIN Customer C ON I.Issued\_Cust = C.Customer\_Id;

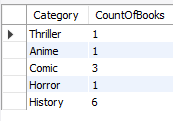


**4. Display the total count of books in each category.**

SELECT Category, COUNT(\*) AS CountOfBooks

FROM Books

GROUP BY Category;

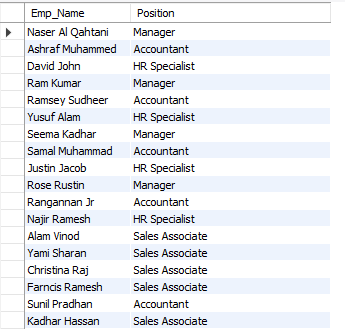


**5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.**

SELECT Emp\_Name, Position

FROM Employee

WHERE Salary > 50000;



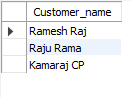
**6. List the customer names who registered before 2022-01-01 and have not issued any books yet.**

SELECT C.Customer\_name

FROM Customer C

LEFT JOIN IssueStatus I ON C.Customer\_ID = I.Issued\_Cust

WHERE C.Reg\_Date < '2022-01-01' AND I.Issue\_ID IS NULL;

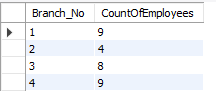


**7. Display the branch numbers and the total count of employees in each branch.**

SELECT Branch\_No, COUNT(\*) AS CountOfEmployees

FROM Employee

GROUP BY Branch\_No;



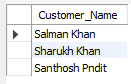
**8. Display the names of customers who have issued books in the month of June 2023.**

SELECT DISTINCT C.Customer\_Name

FROM IssueStatus I

JOIN Customer C ON I.Issued\_Cust = C.Customer\_ID

WHERE I.Issue\_Date BETWEEN '2023-06-01' AND '2023-06-30';

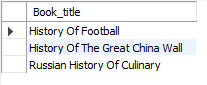


**9. Retrieve book\_title from book table containing history.**

SELECT Book\_title

FROM Books

WHERE Book\_title LIKE '%History%';



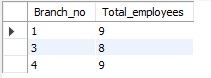
**10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees**

SELECT Branch\_no, COUNT(\*) AS Total\_employees

FROM Employee

GROUP BY Branch\_no

HAVING COUNT(\*) > 5;



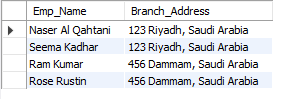
**11. Retrieve the names of employees who manage branches and their respective branch addresses.**

SELECT E.Emp\_Name, B.Branch\_Address

FROM Employee E

JOIN Branch B ON E.Branch\_No = B.Branch\_No

WHERE E.Position = 'Manager';



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

SELECT DISTINCT C.Customer\_name

FROM IssueStatus I

JOIN Customer C ON I.Issued\_Cust = C.Customer\_ID

JOIN Books B ON I.ISBN\_Book = B.ISBN

WHERE B.Rental\_Price > 25;

