SQL QUERIES (13 Queries)

- ```sql
  SELECT b.Title, m.Name AS BorrowedBy
  FROM Books b
  JOIN Borrowing br ON b.BookID = br.BookID
  JOIN Members m ON br.MemberID = m.MemberID;
  ```

Title	BorrowedBy
The Alchemist	David Roy
1984	Alice Sharma
The Great Gatsby	Bob Verma
To Kill a Mockingbird	Grace Kaur
The Hobbit	Cathy Gill
Pride and Prejudice	Frank Thomas
The Catcher in the Rye	Eva Singh
Moby Dick	Harry Dutt

- ```sql
  SELECT Genre, COUNT(*) AS TotalBooks
  FROM Books
  GROUP BY Genre;
  ```

Genre	TotalBooks
Fiction	1
Dystopian	1
Classic	2
Drama	1
Fantasy	1
Romance	1
Adventure	1

```sql
SELECT s.Name AS SupplierName, COUNT(b.BookID) AS TotalSupplied
FROM Suppliers s
JOIN Books b ON s.SupplierID = b.BookID
GROUP BY s.Name;
```

SupplierName	TotalSupplied
Book World	1
ReadMore Ltd.	1
Pages & Co.	1
Global Publishers	1
LitSupply	1
Wordsmiths	1
BookBarn	1
Educators Hub	1

```sql
SELECT m.Name, AVG(f.Amount) AS AverageFine
FROM Members m
JOIN Borrowing br ON m.MemberID = br.MemberID
JOIN Fines f ON br.BorrowID = f.BorrowID
GROUP BY m.Name;
```

Name	AverageFine
Alice Sharma	0.000000
Bob Verma	10.000000
Cathy Gill	0.000000
David Roy	5.000000
Eva Singh	0.000000
Frank Thomas	0.000000
Grace Kaur	15.000000
Harry Dutt	0.000000

```sql
SELECT *
FROM Staff
ORDER BY Position ASC;
```

StaffID	Name	Position	Email	Phone
3	Pooja Yadav	Admin	pooja@example.com	9123456782
2	Sahil Bansal	Assistant	sahil@example.com	9123456781
4	Amit Rana	Clerk	amit@example.com	9123456783
8	Rakesh Rao	Inventory Manager	rakesh@example.com	9123456787
1	Rita Mehra	Librarian	rita@example.com	9123456780
7	Sunita Paul	Receptionist	sunita@example.com	9123456786
6	Manoj Das	Security	manoj@example.com	9123456785
5	Neha Roy	Technician	neha@example.com	9123456784
NULL	NULL	NULL	NULL	NULL

```sql
SELECT m.Name, f.Amount, f.PaidStatus
FROM Fines f
JOIN Borrowing br ON f.BorrowID = br.BorrowID
JOIN Members m ON br.MemberID = m.MemberID
WHERE f.PaidStatus = 'Unpaid';
```

Name	Amount	PaidStatus
Bob Verma	10.00	Unpaid
David Roy	5.00	Unpaid
Grace Kaur	15.00	Unpaid

-
```sql
SELECT b.Title, COUNT(br.MemberID) AS TotalBorrowed
FROM Books b
JOIN Borrowing br ON b.BookID = br.BookID
GROUP BY b.Title;
```

Title	TotalBorrowed
The Alchemist	1
1984	1
The Great Gatsby	1
To Kill a Mockingbird	1
The Hobbit	1
Pride and Prejudice	1
The Catcher in the Rye	1
Moby Dick	1

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```sql
SELECT m.Name, b.Title, br.DueDate
FROM Borrowing br
JOIN Books b ON br.BookID = b.BookID
JOIN Members m ON br.MemberID = m.MemberID
WHERE br.ReturnDate IS NULL AND br.DueDate < CURDATE();
```

Name	Title	DueDate
Bob Verma	The Great Gatsby	2024-03-12
David Roy	The Alchemist	2024-03-20
Grace Kaur	To Kill a Mockingbird	2024-03-25

```sql
SELECT m.Name, SUM(f.Amount) AS TotalPaid
FROM Members m
JOIN Borrowing br ON m.MemberID = br.MemberID
JOIN Fines f ON br.BorrowID = f.BorrowID
WHERE f.PaidStatus = 'Paid'
GROUP BY m.Name;
```

Name	TotalPaid
Alice Sharma	0.00
Cathy Gill	0.00
Eva Singh	0.00
Frank Thomas	0.00
Harry Dutt	0.00

```sql
SELECT b.Title, COUNT(br.BookID) AS TimesBorrowed
FROM Borrowing br
JOIN Books b ON br.BookID = b.BookID
GROUP BY b.Title
ORDER BY TimesBorrowed DESC
LIMIT 1;
```

Title	TimesBorrowed
The Alchemist	1

- ```sql
  SELECT Name
  FROM Members
  WHERE MemberID NOT IN (SELECT DISTINCT MemberID FROM Borrowing);
  ```

Name

- ```sql
  SELECT Title
  FROM Books
  WHERE BookID IN (SELECT DISTINCT BookID FROM Borrowing);
  ```

Title
The Alchemist
1984
The Great Gatsby
To Kill a Mockingbird
The Hobbit
Pride and Prejudice
The Catcher in the Rye
Moby Dick

```sql
SELECT m.Name, b.Title, br.BorrowDate
FROM Borrowing br
JOIN Books b ON br.BookID = b.BookID
JOIN Members m ON br.MemberID = m.MemberID
WHERE (br.BorrowDate, m.MemberID) IN (
    SELECT MAX(BorrowDate), MemberID
    FROM Borrowing
    GROUP BY MemberID
);
```

Name	Title	BorrowDate
Alice Sharma	1984	2024-03-01
Bob Verma	The Great Gatsby	2024-03-02
Cathy Gill	The Hobbit	2024-03-05
David Roy	The Alchemist	2024-03-10
Eva Singh	The Catcher in the Rye	2024-03-11
Frank Thomas	Pride and Prejudice	2024-03-13
Grace Kaur	To Kill a Mockingbird	2024-03-15
Harry Dutt	Moby Dick	2024-03-18