

1. Create Table Query

Create a table named **Library** to store the following details:

- BookID (auto-incremented, primary key)
- Title (varchar)
- Author (varchar)
- Publisher (varchar)
- Genre (varchar)
- PublishedYear (integer)
- ISBN (varchar, unique)
- Pages (integer)
- CopiesAvailable (integer)
- Price (decimal)

2. Insert Data

Insert the following records into the **Library** table:

BookID	Title	Author	Publisher	Genre	PublishedYear	ISBN	Pages	CopiesAvailable	Price
1	To Kill a Mockingbird	Harper Lee	J.B. Lippincott	Fiction	1960	978-0061120084	324	5	15.99
2	1984	George Orwell	Harvill Secker	Dystopian	1949	978-0451524935	328	2	9.99
3	The Great Gatsby	F. Scott Fitzgerald	Scribner	Fiction	1925	978-0743273565	180	3	10.99
4	The Catcher in the Rye	J.D. Salinger	Little, Brown	Fiction	1951	978-0316769488	277	4	12.99
5	The Hobbit	J.R.R. Tolkien	HarperCollins	Fantasy	1937	978-0618968633	310	6	13.99

3. Update Queries with Multiple Conditions

- 3. Update the Price of the book with ISBN '978-0451524935' to 11.99 if the Genre is 'Dystopian' and the PublishedYear is before 1950.**
 - 4. Update the number of Copies Available to 10 for all books with 'Fiction' genre and a published year after 1950.**
 - 5. Set the Price of books to 5% less for all books in the 'Fiction' genre with more than 300 pages.**
 - 6. Update the Pages of books to 350 if the Copies Available are greater than 4 and the Price is below 14.**
 - 7. Increase the Price by 10% for all books in the 'Fantasy' genre published before 1950 and with less than 300 pages.**
 - 8. Set the Copies Available to 0 for books where the Price is greater than 12 and the Genre is either 'Fiction' or 'Dystopian'.**
 - 9. Update the PublishedYear to 2020 for all books with 'Tolkien' in the author's name, where the price is greater than 10 and less than 15.**
 - 10. Set the Price to 8.99 for books with 'George Orwell' in the author's name and having more than 300 pages.**
 - 11. Decrease the Price of all books in the 'Fiction' genre published before 1950 by 15%, if the Copies Available are less than 5.**
 - 12. Update the Price of 'To Kill a Mockingbird' to 17.99 If the PublishedYear is 1960 and CopiesAvailable is greater than 4.**
-

4. Delete Queries with Multiple Conditions

- 13. Delete books with the ISBN '978-0451524935' and '978-0618968633' If they belong to the 'Dystopian' genre and have more than 2 copies available.**
- 14. Delete all books published before 1950 that have a price lower than 10.**
- 15. Delete books in the 'Fiction' genre with less than 3 copies available, published before 1960.**
- 16. Delete all books with fewer than 200 pages and where the PublishedYear is greater than 1920 but less than 1960.**
- 17. Delete books where the author's name is 'Harper Lee' and the price is less than 12.**
- 18. Delete all books where Copies Available is 0 and the price is greater than 15.**
- 19. Delete all books with ISBN containing '978-074', where the Genre is 'Fiction' and PublishedYear is before 1950.**
- 20. Delete all books published after 2000 that have a price below 10 or greater than 15.**
- 21. Delete books in the 'Fantasy' genre where the number of Copies Available is greater than 3 but less than 10.**
- 22. Delete books with 'J.D. Salinger' as the author, and where the number of pages is less than 300 and the price is greater than 12.**

5. Select Queries with Multiple Conditions

23. Find books in the 'Fiction' genre that were published after 1950, have more than 200 pages, and the price is between 10 and 15.
24. List all books with more than 300 pages and a price greater than 12, excluding books published in the 'Fantasy' genre.
25. Get a list of books that were published between 1925 and 1950, are priced below 13, and have more than 3 copies available.
26. Find books by 'Harper Lee' or 'George Orwell', where the PublishedYear is greater than 1950 and the price is greater than 10.
27. List books by 'J.R.R. Tolkien' where Copies Available is greater than 5, and price is between 12 and 15.
28. Find the book with the highest price and more than 300 pages published in the 'Dystopian' or 'Fantasy' genre.
29. Show all books with 'Tolkien' in the author's name and PublishedYear before 1940, where Copies Available is between 4 and 6.
30. List books in the 'Fiction' genre that have more than 200 pages and a price between 10 and 20, where Copies Available is between 2 and 5.
31. Find all books published before 1950, with a price lower than 15, and having fewer than 3 copies available.
32. Show titles and authors of books that have a price greater than 12, Copies Available more than 4, and PublishedYear after 1930.

SET-3.

1.) Create table query.

```
CREATE TABLE Library (
    BookID AUTO_INCREMENT PRIMARY KEY,
    Title VARCHAR(255),
    Author VARCHAR(255),
    Publisher VARCHAR(255),
    Genre VARCHAR(100),
    PublishedYear INT,
    ISBN VARCHAR UNIQUE,
    Pages INT,
    CopiesAvailable INT,
    Price DECIMAL(10,2)
);
```

2) Insert Data.

INSERT INTO Library (Title, Author, Publisher, Genre, Published Year, ISBN, Pages, Copies Available, Price)

VALUES

('To Kill a Mockingbird', 'Harper Lee', 'J.B. Lippincott', 'Fiction', 1960, '978-0061120084', 324, 5, 15.99),

('1984', 'George Orwell', 'Harvill Secker', 'Dystopian', 1949, '978-0451524935', 328, 2, 9.99),

('The Great Gatsby', 'F.Scott Fitzgerald', 'Scribner', 1925, '978-0743273565', 180, 3, 10.99),

('The Catcher in the Rye', 'J.D. Salinger', 'Little, Brown', 'Fiction', 1951, '978-0316769488', 277, 4, 12.99),

('The Hobbit', 'J.R.R. Tolkien', 'HarperCollins', 'Fantasy', 1937, '978-061898633', 310, 6, 13.99);

3.) Update Queries with Multiple Conditions

Q.1.)

UPDATE Library

SET Price = 11.99

WHERE ISBN = '978-0451524935'

AND Genre = 'Dystopian'

AND Published Year < 1950;

Qno.2)

UPDATE Library

SET CopiesAvailable = 10

WHERE Genre = 'Fiction'

AND Published Year > 1950;

Qno.3)

UPDATE Library

SET Price = Price * 0.95

WHERE Genre = 'Fiction'

AND Pages > 300;

Q.4)

```
UPDATE Library  
SET Pages = 350  
WHERE CopiesAvailable > 4  
AND Price < 14;
```

Q.5

```
UPDATE Library  
SET Price = Price * 1.10  
WHERE Genre = 'Fantasy'  
AND PublishedYear < 1950  
AND Pages < 300;
```

Q.6

```
UPDATE Library  
SET CopiesAvailable = 0  
WHERE Price > 12  
AND Genre IN ('Fiction', 'Dystopian');
```

Q.7.

UPDATE Library

SET Published Year = 2020

WHERE Author LIKE '%Tolkien%'

AND Price BETWEEN 10 AND 15;

Q.8.

UPDATE Library

SET Price = 8.99

WHERE Author LIKE 'George Orwell'

AND Pages > 300;

Q.9

UPDATE Library

SET Price = Price * 0.85

WHERE Genre = 'Fiction'

AND PublishYear < 1950

AND Copies Available < 5;

Q.10

UPDATE Library

SET Price = 17.99

WHERE Title = 'To Kill a Mockingbird'

AND PublishedYear = 1960

AND CopiesAvailable > 4;

4.) Delete Queries with Multiple Conditions

Q.1)

DELETE FROM Library

WHERE ISBN IN ('978-0451524935', '978-061896833')

AND Genre = 'Dystopian'

AND CopiesAvailable ≥ 2;

Q.2

DELETE FROM Library

WHERE PublishedYear < 1950

AND Price < 10;

S.3

DELETE FROM Library
WHERE Genre = 'Fiction'
AND CopiesAvailable < 3
AND PublishedYear < 1960;

S.4

DELETE FROM Library
WHERE Pages < 200
AND PublishedYear > 1920
AND PublishedYear < 1960;

S.5

DELETE FROM Library
WHERE Author = 'Harper Lee'
AND Price < 12;

S.6

DELETE FROM Library
WHERE CopiesAvailable = 0
AND Price > 15;

Q.7)

DELETE FROM Library
WHERE ISBN = '978-0743273565'
AND Genre = 'Fiction'
AND PublishedYear < 1950;

Q.8)

DELETE FROM Library
WHERE PublishedYear > 2000
AND (Price BETWEEN 10 AND 15 OR Price > 15);

Q.9)

DELETE FROM Library
WHERE Genre = 'Fantasy'
AND CopiesAvailable > 3
AND CopiesAvailable < 10;

Q.10)

DELETE FROM Library
WHERE Author = 'J.K. Rowling'
AND Pages < 300
AND Price > 12;

5.) Select Multiple Queries with Condition.

(Sno.1)

```
SELECT * FROM Library  
WHERE Genre = 'Fiction' AND PublishedYear > 1950  
AND Pages > 200 AND (Price Between 10 AND 15);
```

(Sno.2)

```
SELECT * FROM Library  
WHERE Pages > 300 AND Price > 12  
AND Genre != 'Fantasy';
```

(Sno.3)

```
SELECT * FROM Library  
WHERE PublishedYear BETWEEN 1925 AND 1950  
AND Price > 13  
AND CopiesAvailable > 3;
```

Q.4.)

```
SELECT * FROM Library  
WHERE (Author = 'Harper Lee' OR Author = 'George Orwell')  
AND PublishedYear > 1950  
AND Price > 10;
```

Q.5)

```
SELECT * FROM Library  
WHERE Author = 'J.R.R Tolcien'  
AND CopiesAvailable > 5 AND (Price BETWEEN 12 AND 15);
```

Q.6)

```
SELECT * FROM Library  
WHERE (Genre = 'Dystopian' OR Genre = 'Fantasy')  
AND Pages > 300  
ORDER BY Price DESC  
LIMIT 1;
```

Q.7)

```
SELECT * FROM Library  
WHERE Author LIKE '%Tolkien%'  
AND PublishedYear < 1940  
AND (CopiesAvailable BETWEEN 4 AND 6);
```

Q.8

```
SELECT * FROM Library  
WHERE Genre = 'Fiction'  
AND Pages > 200  
AND (Price BETWEEN 10 AND 20)  
AND CopiesAvailable BETWEEN 2 AND 5;
```

Q.9

```
SELECT * FROM Library  
WHERE PublishedYear < 1950  
AND Price < 15 AND CopiesAvailable < 3;
```

Q.10

```
SELECT Title, Author FROM Library  
WHERE Price > 12 AND CopiesAvailable > 4  
AND PublishedYear > 1930;
```