

-- Task :Creating Views

-- database

USE library_management_system;

-- 1. Create a view to show issued books with reader and staff details

CREATE VIEW IssuedBooksView AS

SELECT

i.issue_id,

r.first_name,

r.last_name,

b.title AS book_title,

s.name AS staff_name,

i.issue_date

FROM Issue i

JOIN Readers r ON i.reader_id = r.reader_id

JOIN Books b ON i.isbn = b.isbn

JOIN Staff s ON i.staff_id = s.staff_id;

169	20:14:45	USE library_management_system	0 row(s) affected	0.016 sec
170	20:14:45	CREATE VIEW IssuedBooksView AS SELECT i.issue_id, r.first_name, r.last_name, b.title AS book_title, s.name AS staff_name, i.issue_date FROM Issue i JOIN Readers r ON i.reader_id = r.reader_id JOIN Books b ON i.isbn = b.isbn JOIN Staff s ON i.staff_id = s.staff_id;	0 row(s) affected	0.047 sec

-- View usage example

SELECT * FROM IssuedBooksView;

Output:-

Result Grid						
Filter Rows: <input type="text"/>						
Export: <input type="button" value=""/>						
Wrap Cell Content: <input type="button" value=""/>						
	issue_id	first_name	last_name	book_title	staff_name	issue_date
▶	1	Sahil	Verma	Let Us C	Anita Deshmukh	2025-08-01
	3	Priyanka	Nikam	Python Made Easy	Ashwini Borole	2025-08-03
	2	Meena	Patel	java	sahil patil	2025-08-02

-- 2. Create a view for readers who never issued a book

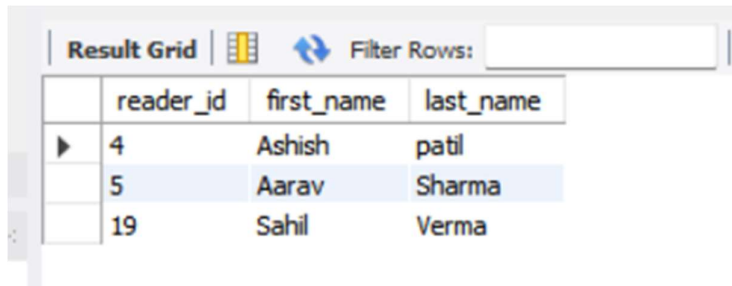
```
CREATE VIEW ReadersWithoutIssues AS  
  
SELECT r.reader_id, r.first_name, r.last_name  
  
FROM Readers r  
  
LEFT JOIN Issue i ON r.reader_id = i.reader_id  
  
WHERE i.issue_id IS NULL;
```

✓ 172 20:14:45 CREATE VIEW ReadersWithoutIssues AS SELECT r.reader_id, r.first_name, r.last_name FROM Readers r LE... 0 row(s) affected

-- View usage example

```
SELECT * FROM ReadersWithoutIssues;
```

Output:-



	reader_id	first_name	last_name
▶	4	Ashish	patil
	5	Aarav	Sharma
	19	Sahil	Verma

-- 3. Create a view to show Fiction books only

```
CREATE VIEW FictionBooks AS  
  
SELECT isbn, title, author, publisher, price  
  
FROM Books  
  
WHERE category = 'Fiction';
```

✓ 182 20:22:29 CREATE VIEW FictionBooks AS SELECT isbn, title, author, publisher, price FROM Books WHERE category =... 0 row(s) affected

-- View usage example

```
SELECT * FROM FictionBooks;
```

Output:-

Result Grid

Filter Rows:

Export:

Wrap

	isbn	title	author	publisher	price
	FIC123	Sample Fiction Book	NULL	NULL	350.00

-- 4. Update through a view (only if view is updatable)

-- Example: Update price for a Fiction book

UPDATE FictionBooks

SET price = 350.00

WHERE isbn = 'FIC123';

186 20:25:15 UPDATE FictionBooks SET price = 300.00 WHERE isbn = 'FIC123' 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output:-

Result Grid



Filter Rows:

Export:


Wrap Cell Content:


	isbn	title	author	publisher	price
▶	FIC123	Sample Fiction Book	NULL	NULL	300.00

-- 5. Drop a view

DROP VIEW IF EXISTS FictionBooks;

188 20:26:12 DROP VIEW IF EXISTS FictionBooks 0 row(s) affected