Task 7 : Views

1. Create VIEW vw\_BookPublisherCategory AS

Select b.Title, p.Name AS Publisher, c.CategoryName

from Book b

Join Publisher p ON b.PublisherID = p.PublisherID

Join Category c ON b.CategoryID = c.CategoryID;

1. Create VIEW vw\_BookCountByCategory AS

Select c.CategoryName, COUNT(\*) AS TotalBooks

from Book b

Join Category c ON b.CategoryID = c.CategoryID

Group By c.CategoryName;

1. Create VIEW vw\_AuthorWithBookCount AS

Select a.FullName, COUNT(ba.BookISBN) AS BooksWritten

from Author a

Join BookAuthor ba ON a.AuthorID = ba.AuthorID

Group By a.FullName;

1. Create VIEW vw\_AvailableCopiesByBranch AS

Select lb.BranchName, COUNT(\*) AS AvailableBooks

from BookCopy bc

Join LibraryBranch lb ON bc.BranchID = lb.BranchID

where bc.Status = 'Available'

Group By lb.BranchName;

1. Create VIEW vw\_BooksByYear AS

Select PublicationYear, COUNT(\*) AS BookCount

from Book

Group By PublicationYear;

1. Create VIEW vw\_MembersByType AS

Select MemberType, COUNT(\*) AS Total

from Member

Group By MemberType;

1. Create VIEW vw\_BookStatusSummary AS

Select Status, COUNT(\*) AS Total

from BookCopy

Group By Status;

1. Create VIEW vw\_PublisherBookCount AS

Select p.Name AS PublisherName, COUNT(b.ISBN) AS TotalBooks

from Publisher p

Join Book b ON b.PublisherID = p.PublisherID

Group By p.Name;

1. Create VIEW vw\_BookCopyStatus AS

Select lb.BranchName, b.Title, bc.Status

from BookCopy bc

Join Book b ON bc.ISBN = b.ISBN

Join LibraryBranch lb ON bc.BranchID = lb.BranchID;

1. Create VIEW vw\_RecentMembers AS

Select FullName, Email, CreatedAt

from Member

where CreatedAt >= DATEADD(DAY, -30, GETDATE());

1. Create VIEW vw\_GmailMembers AS

Select FullName, Email

from Member

where Email LIKE '%@gmail.com';

1. Create VIEW vw\_MembersWithBorrowedBooks AS

Select DISTINCT m.FullName, m.Email

from Member m

Join BookCopy bc ON bc.Status = 'Borrowed';

1. Create view vw\_unborrowedBooks as

Select b.title

from book b

where b.isbn not in (

Select isbn from bookCopy where status = 'Borrowed'

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