Task 6 : Scalar & Correlated Subqueries

1. Select Title,

(Select MAX(PublicationYear) from Book) AS latestYear

from Book;

1. Select Title from Book

where PublicationYear = (Select MAX(PublicationYear) from Book);

1. Select b.Title, b.CategoryID from Book b

where PublicationYear = (

Select MAX(PublicationYear) from Book b2

where b2.CategoryID = b.CategoryID

);

1. Select Title from Book

where CategoryID IN (

Select CategoryID from Book

Group By CategoryID

HAVING COUNT(\*) > 1

);

1. Select FullName from Member

where CreatedAt =

(Select MAX(CreatedAt) from Member);

1. Select BranchID from BookCopy

GROUP BY BranchID

HAVING COUNT(\*) > (

Select AVG(copyCount) from (

Select COUNT(\*) AS copyCount

from BookCopy

Group By BranchID

) AS avgTable

);

1. Select BranchID from BookCopy

where Status = 'Borrowed'

and EXISTS (

Select TOP 1 from BookCopy bc2

where bc2.Status = 'Borrowed'

and bc2.BranchID = BookCopy.BranchID );

1. Select FullName from Member

where EXISTS (

Select \* from Publisher

where Publisher.City IS NOT NULL

);

1. Select FullName from Author

where AuthorID IN (

Select ba.AuthorID from BookAuthor ba

JOIN Book b ON ba.BookISBN = b.ISBN

where b.CategoryID = (

Select CategoryID from Category where CategoryName = 'Fantasy'

));

1. Select Title from Book

where PublicationYear <> (

Select MAX(PublicationYear) from Book

);

1. Select b.Title from Book b

where PublicationYear = (

Select MAX(PublicationYear) from Book b2

where b2.CategoryID = b.CategoryID

);

1. Select CategoryName from Category

where CategoryID IN (

Select CategoryID from Book

where PublicationYear < 2000

);

1. Select Name from Publisher

where PublisherID NOT IN (

Select DISTINCT PublisherID from Book

);