Lab Assignment-6

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1) Illustrate logical ANY, ALL and LIKE operator- the queries should be relevant to your respective databases 3 queries for each operator. One query explaining the difference between ANY and ALL

i) Queries on LIKE operator:-

```
SELECT BOOK_NAME from books_ where BOOK_NAME like 'g%'

SELECT BOOK_NAME from books_ where BOOK_NAME like '%up'

SELECT author_name from author_ WHERE author_name like '1%'

### Results of Messages

### BOOK_NAME
1 | Conglicies
2 | Conglicies
3 | Conglicies
3 | Conglicies
4 | Conglicies
5 | Conglicies
5 | Conglicies
6 | Conglicies
7 | Conglicies
7 | Conglicies
8 | Conglicies
9 | Conglicies
1 | Conglicies
9 | Conglicies
1 | Conglicies
2 | Conglicies
1 | Conglicies
2 | Conglicies
3 | Conglicies
4 | Conglicies
6 | Conglicies
6 | Conglicies
7 | Conglicies
8 | Conglicies
9 | Conglicies
9 | Conglicies
1 | Conglicies
1 | Conglicies
1 | Conglicies
2 | Conglicies
1 | Conglicies
2 | Conglicies
2 | Conglicies
3 | Conglicies
4 | Conglicies
6 | Conglicies
6 | Conglicies
7 | Conglicies
7 | Conglicies
8 | Conglicies
9 |
```

ii) Queries on ALL operator:-

```
DSELECT author_id, author_name from author_ WHERE author_id > all( select author_id from books_ where author_id<6)

155 % **

The results of Messages*

The results of Message
```

iii) Queries on ANY operator:-

```
SELECT no_of_issues from books_
where no_of_issues > ANY(
select no_of_issues from books_ WHERE author_id>15 )

SELECT author_id,BOOK_NAME from books_
WHERE author_id > ANY(
select author_id from books_ WHERE published_year>2015)

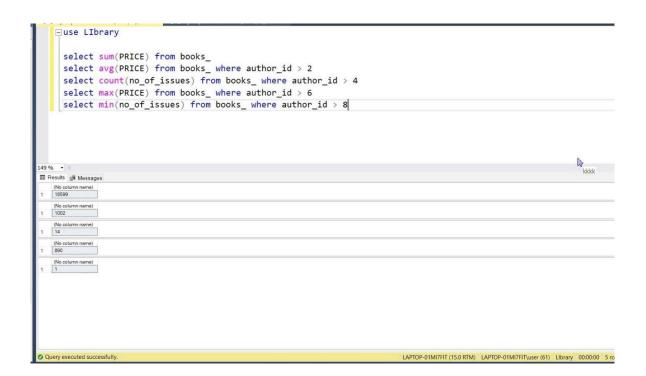
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```



iv) Queries on ANY and ALL comparison:-

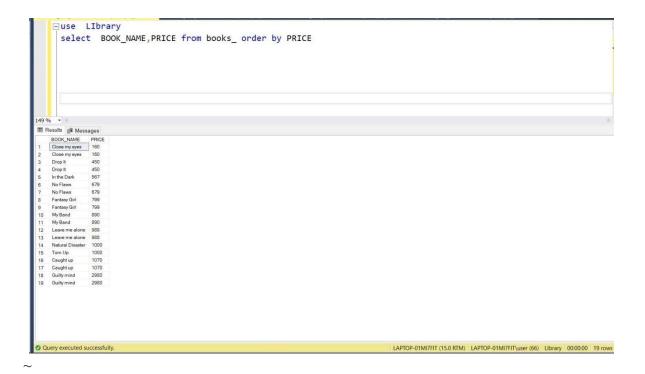


2). One query for each Aggregate function.



3) Illustrate the usage of order by, group by and having clause (2 queries for each case) i) ORDER BY :-





ii) GROUP BY:-

iii) HAVING:-

4) Use Aggregate function with group by and having

		elect bought_year,count(author_id) as no_of_books_bought from books_ group by bought_year elect published_year,count(PRICE) as no_of_books_published from books_ group by published_ye			
	v 4	fessages			
		no_of_books_bought			
	2000	1			
	2004	1			
	2012	8			
	2013	1			
5	2014	2			
	2015	2			
	2016	2			
8	2020	2			
	published_ye	sar no_of_books_published			
	1994	1			
	1996	2			
	1998	1			
	2001	1			
	2002	1			
	2010	4			
	2011	1			
	2012	2			
	2013	3			
	2014	1			
	2015	1			
12	2016	1			
Que	ery execute	ed successfully.	LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (70)	Library 00:00:00	20 r

5) Write at least 3 nested queries using order by, group by and having clause.

- 6) Illustrate the Usage of Except, Exists, Not Exists, Union, Intersection
 - i) EXISTS and NOT EXISTS:-

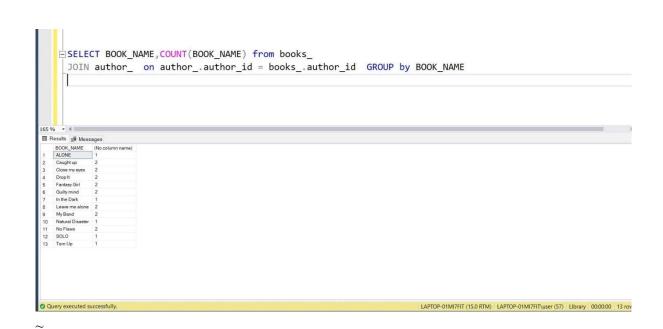
```
| SELECT * | FROM books | WHERE EXISTS (SELECT author_id FROM books_ WHERE author_id = 3); | SELECT * | FROM books_ WHERE not EXISTS (SELECT author_id FROM books_ WHERE author_id = 3); | SELECT * | FROM books_ WHERE not EXISTS (SELECT author_id FROM books_ WHERE author_id = 3); | SELECT * | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT * | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT * | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE author_id = 3); | SELECT author_id FROM books_ WHERE a
```

ii) EXCEPT:-

iii) UNION and INTERSECT:-

7) INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN- 3 queries for each instance

i) JOIN:-



ii) RIGHT JOIN:-

```
SELECT PRICE, avg(PRICE) from books_
right JOIN author_ on author_id = books_.author_id GROUP by PRICE

| Internal | State | S
```

iii) LEFT JOIN:-

