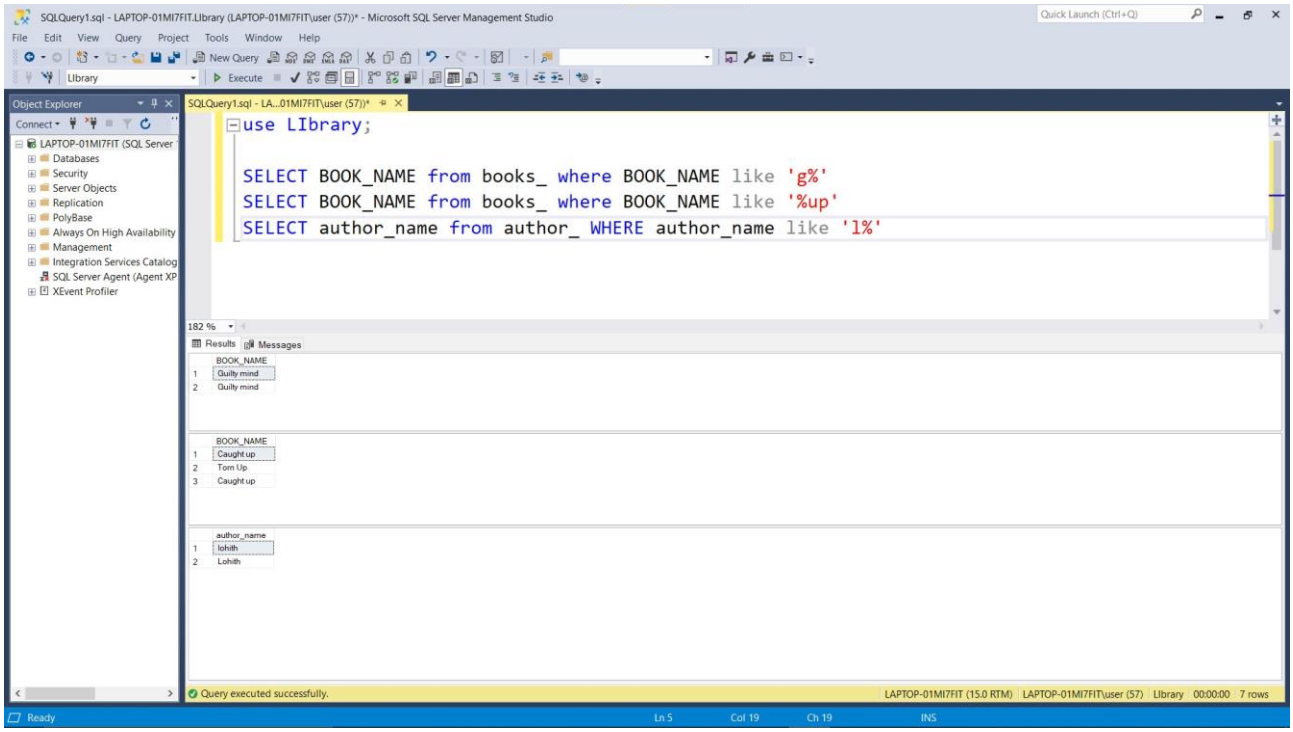
Name: Burra Manikanta Reg No: 19BCS026

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) LIKE :-



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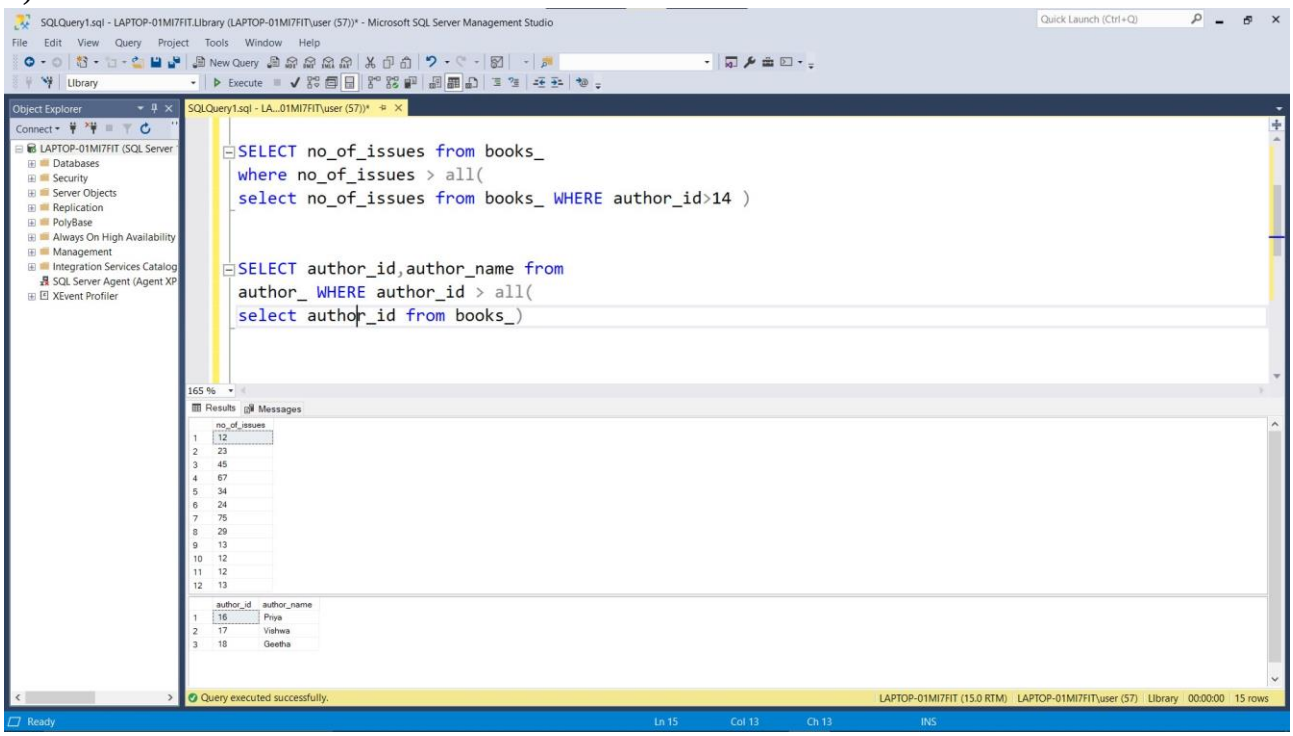
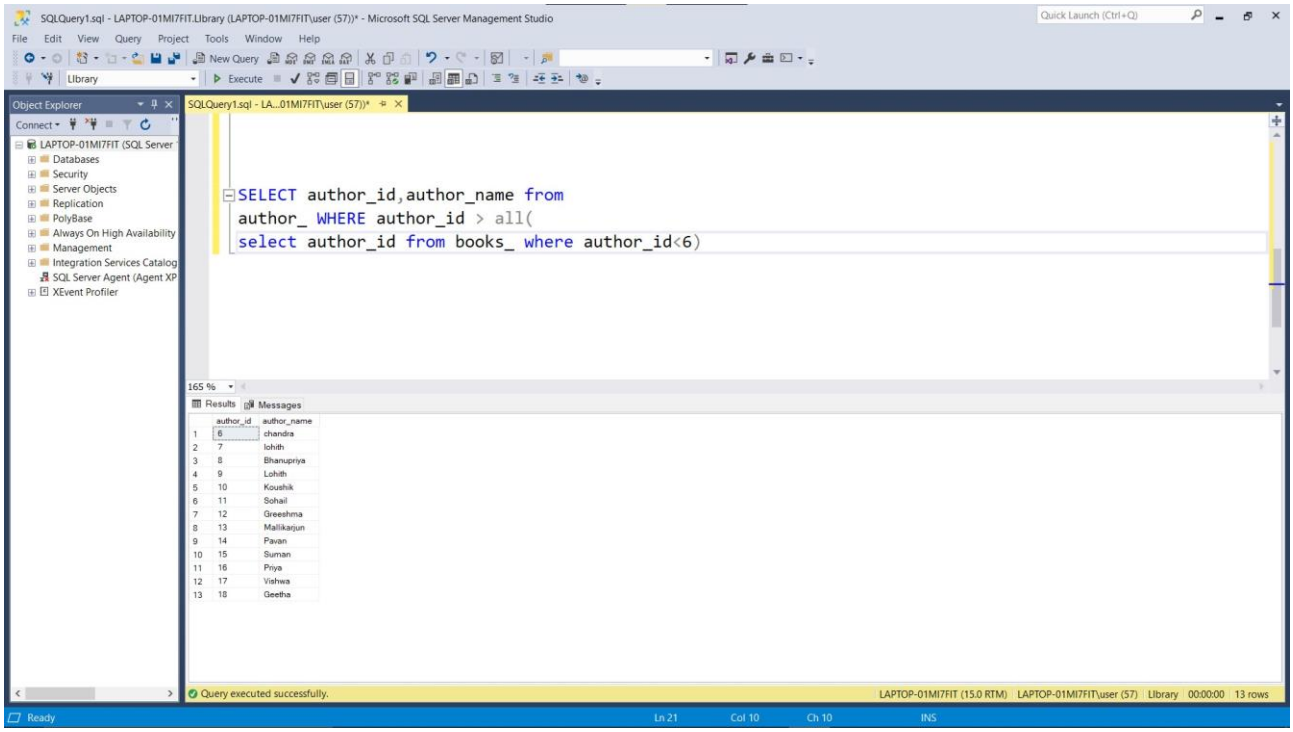
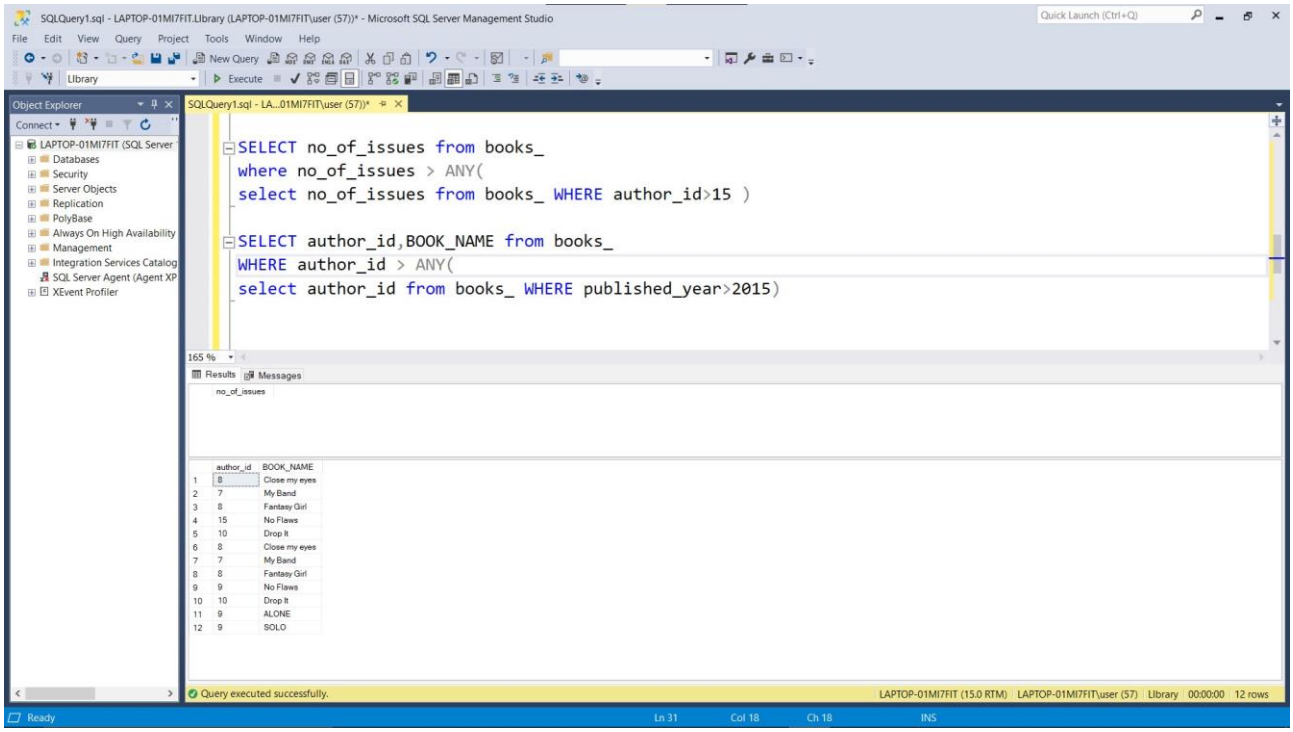
ii) ALL :-



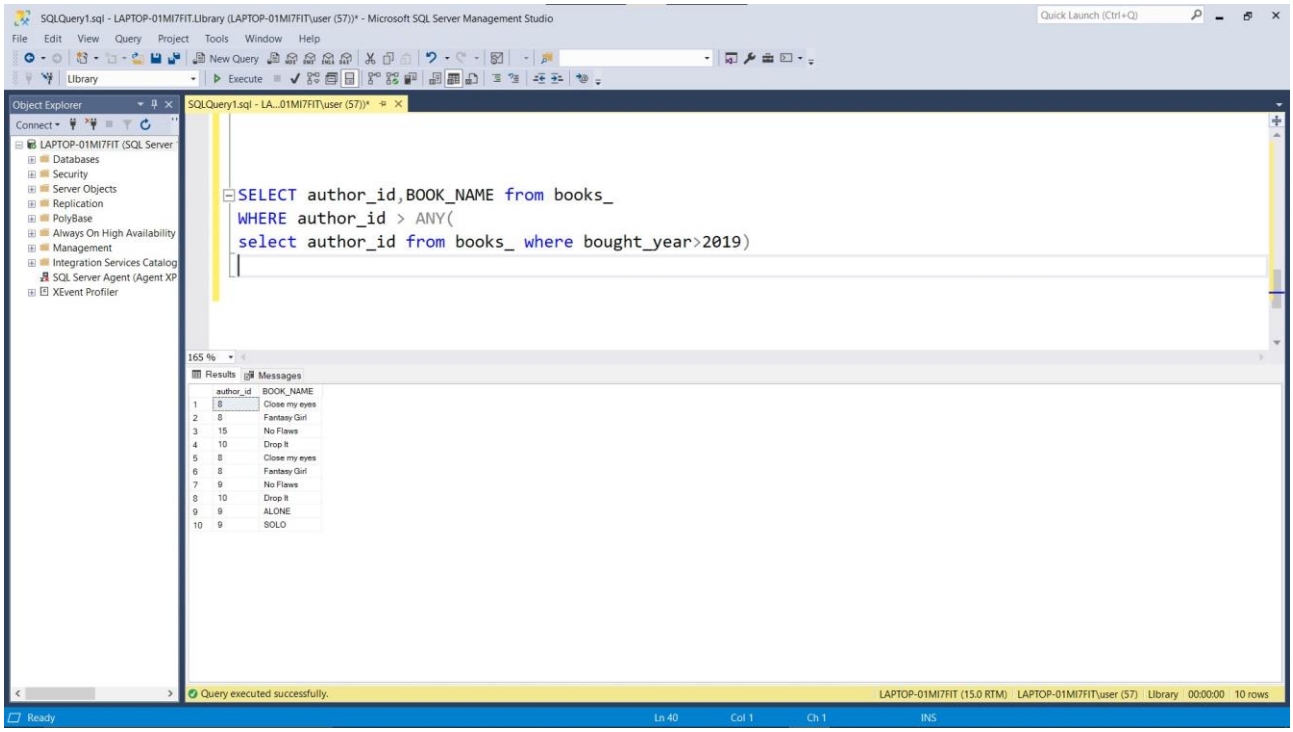

SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
SELECT author_id,author_name from
author_ WHERE author_id > all(
select author_id from books_ where author_id<6)
author_id author_name
1 6 chandra
2 7 lohith
3 8 Bhanupriya
4 9 Lohith
5 10 Koushik
6 11 Sohail
7 12 Greeshma
8 13 Mallikarjun
9 14 Pavan
10 15 Suman
11 16 Priya
12 17 Vishwa
13 18 Geetha
Query executed successfully.
Ready

~

iii) ANY :-

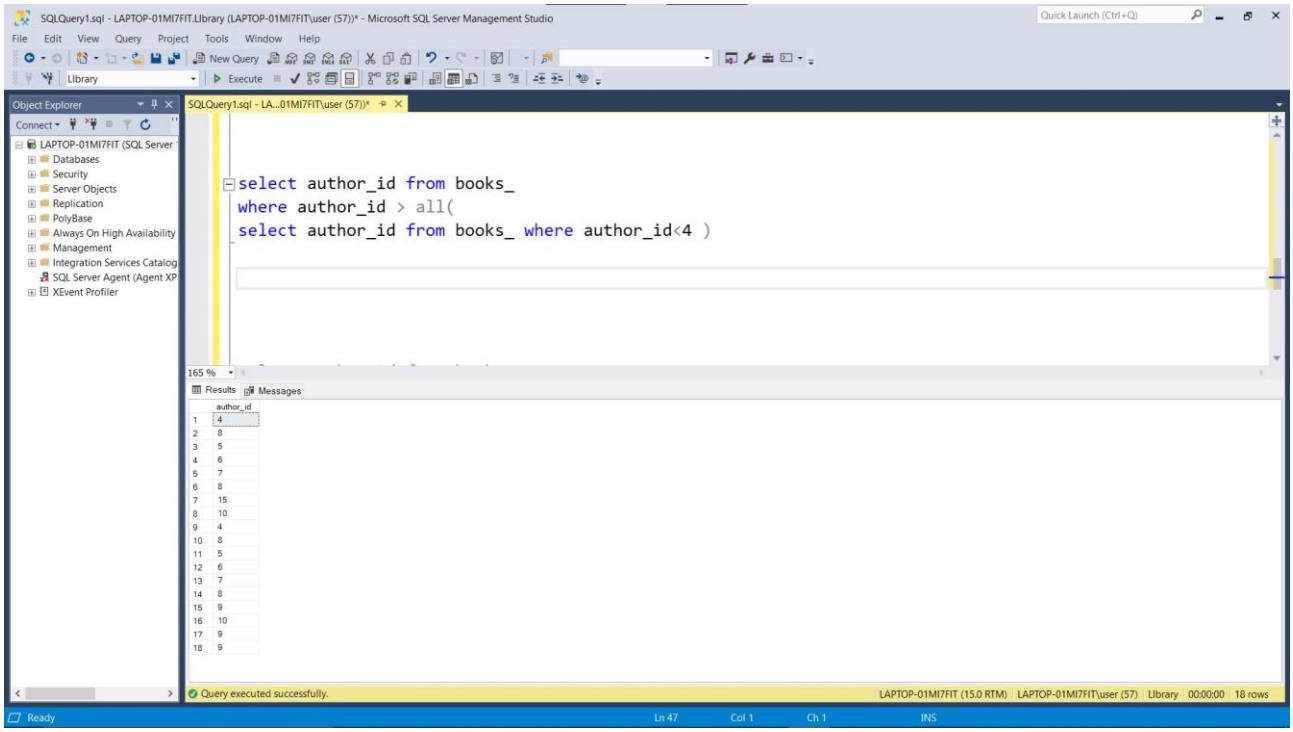

SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
SELECT no_of_issues from books_
where no_of_issues > ANY(
select no_of_issues from books_ WHERE author_id>15)
SELECT author_id,BOOK_NAME from books_
WHERE author_id > ANY(
select author_id from books_ WHERE published_year>2015)
no_of_issues
author_id BOOK_NAME
1 8 Close my eyes
2 7 My Band
3 8 Fantasy Girl
4 15 No Flaws
5 10 Drop It
6 8 Close my eyes
7 7 My Band
8 8 Fantasy Girl
9 9 No Flaws
10 10 Drop It
11 9 ALONE
12 9 SOLO
Query executed successfully.
Ready

~



~ iv) ANY and ALL comparison

:-



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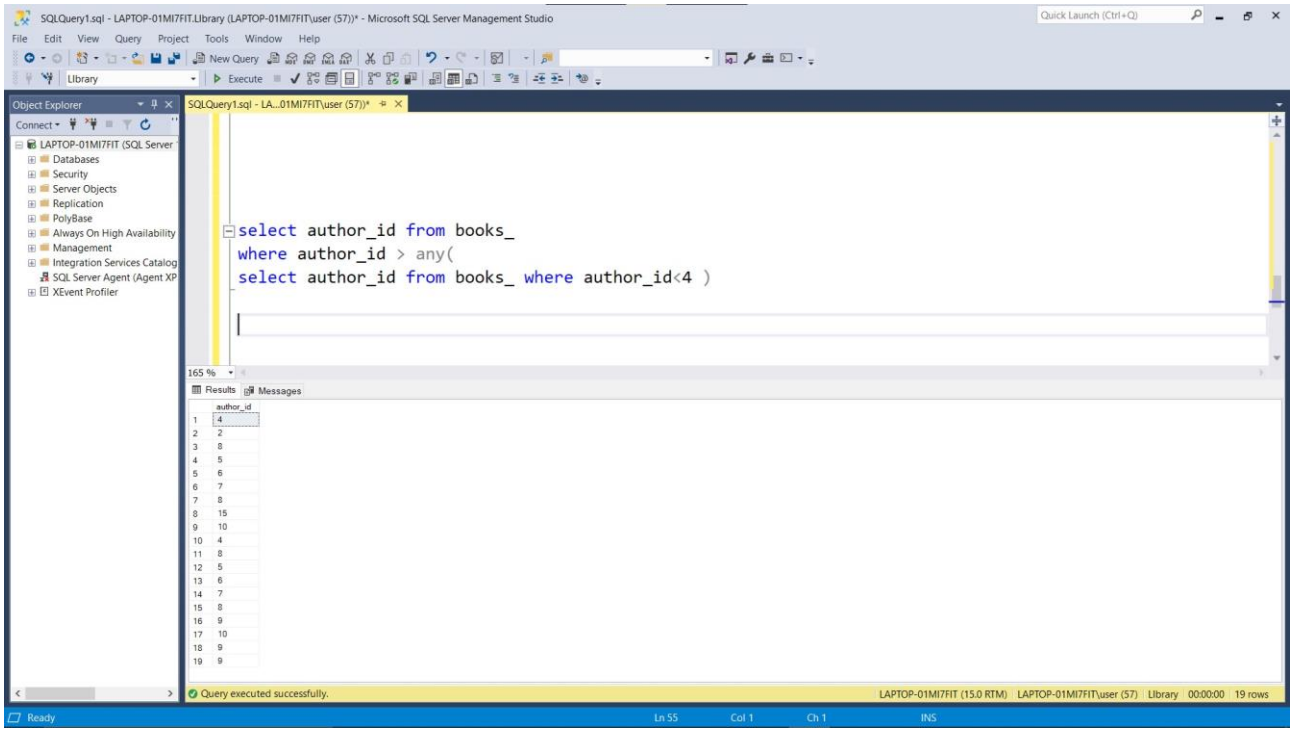

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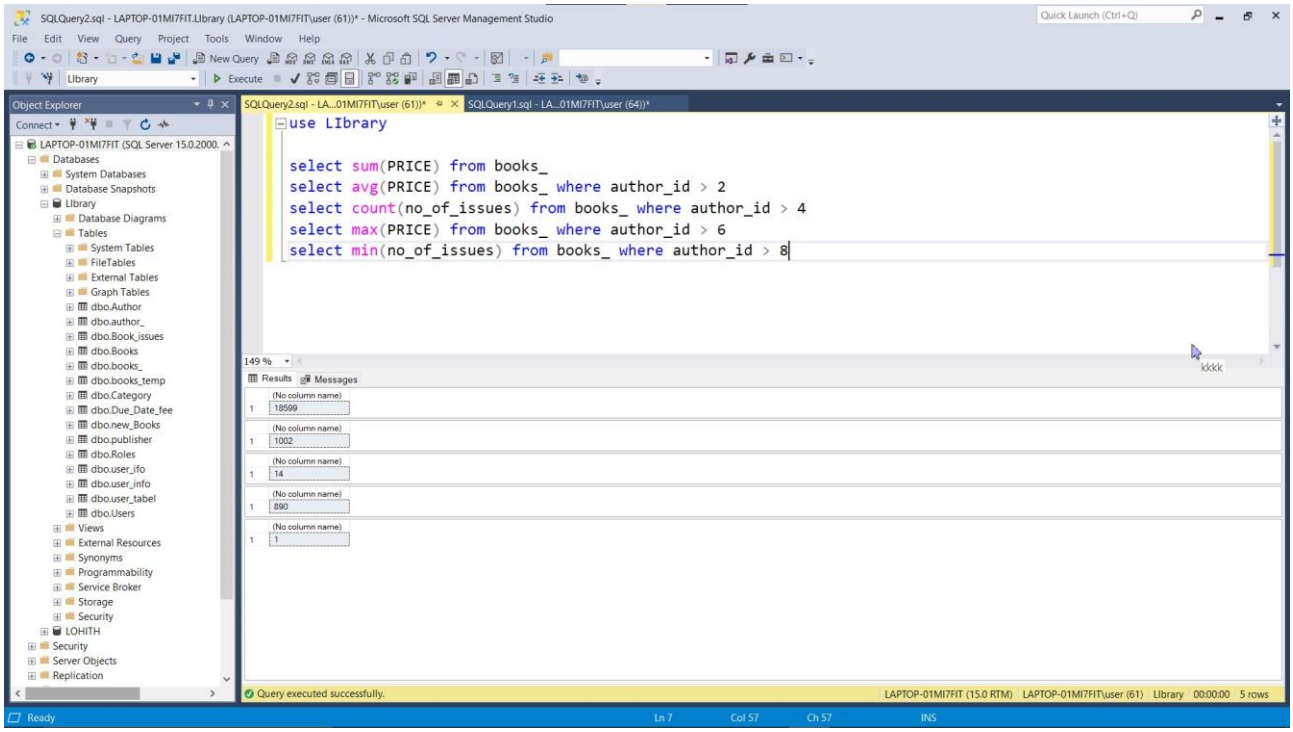
2). One query for each Aggregate function.



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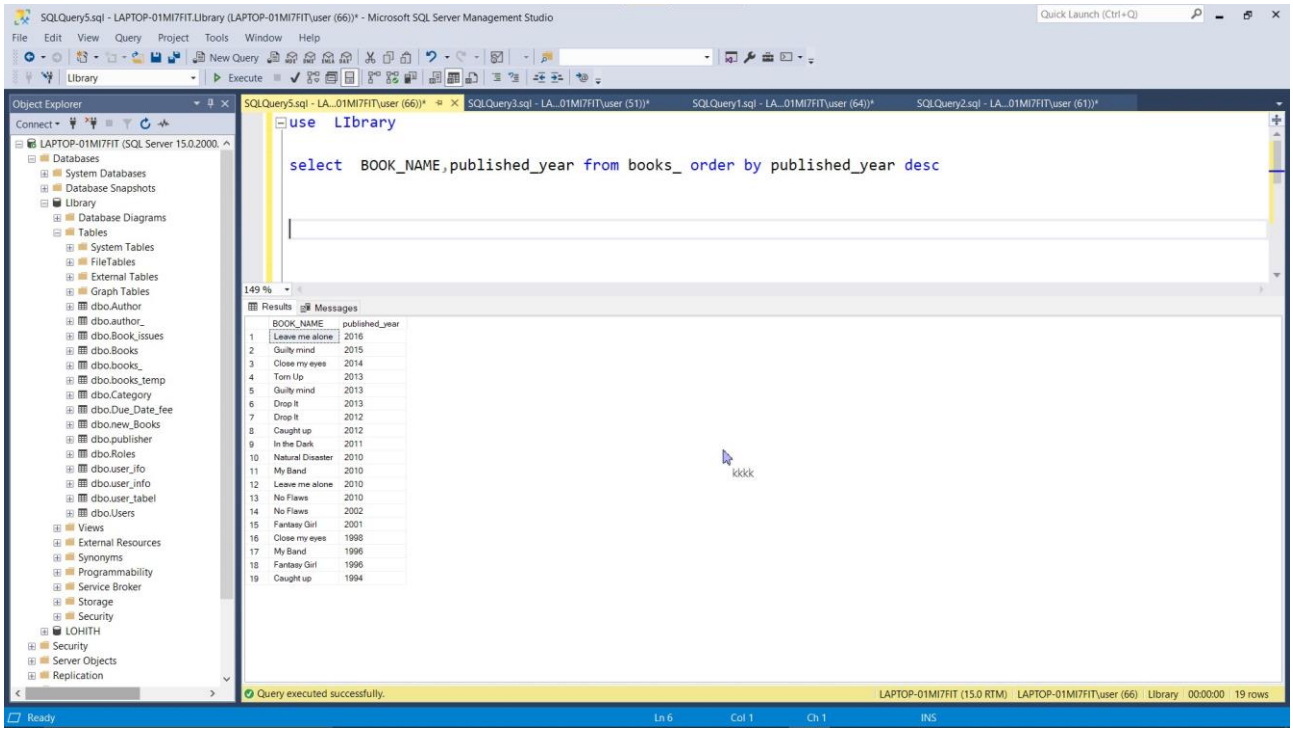
3)

Illustrate the usage of order by, group by and having clause (2 queries for each case)

i)ORDER BY :-



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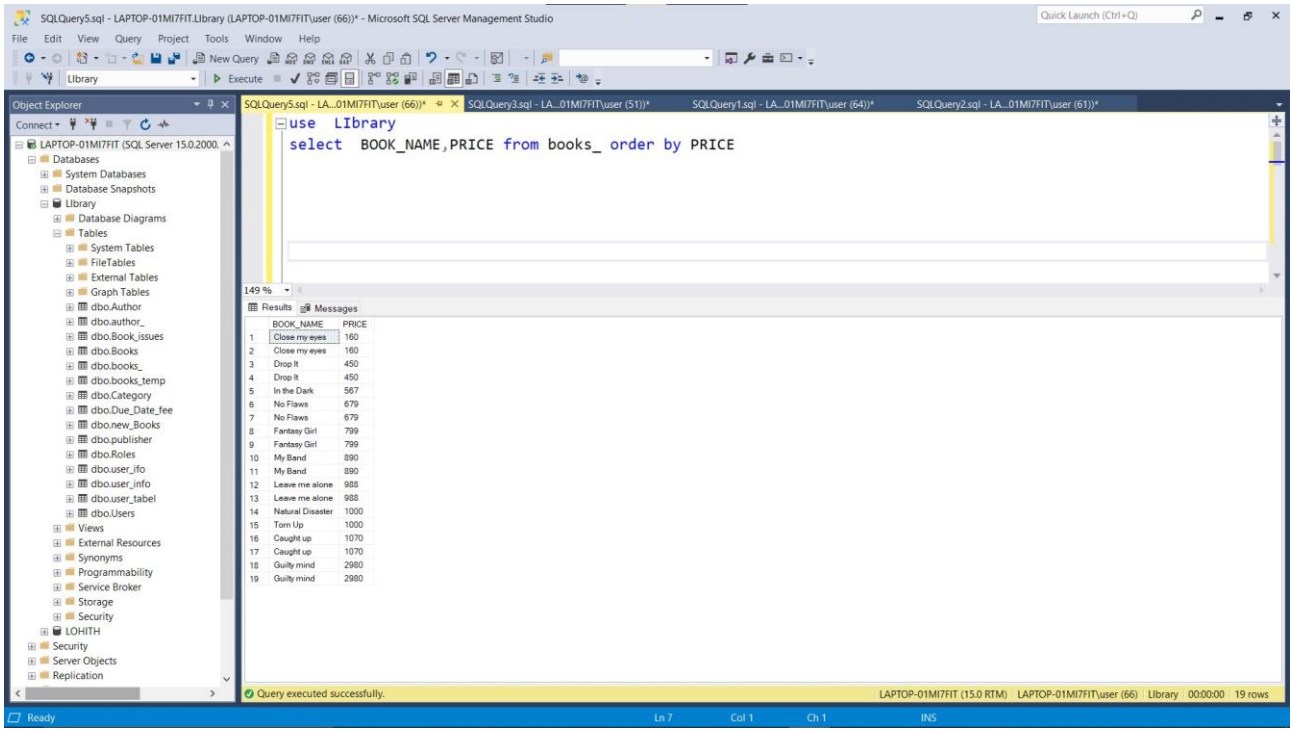

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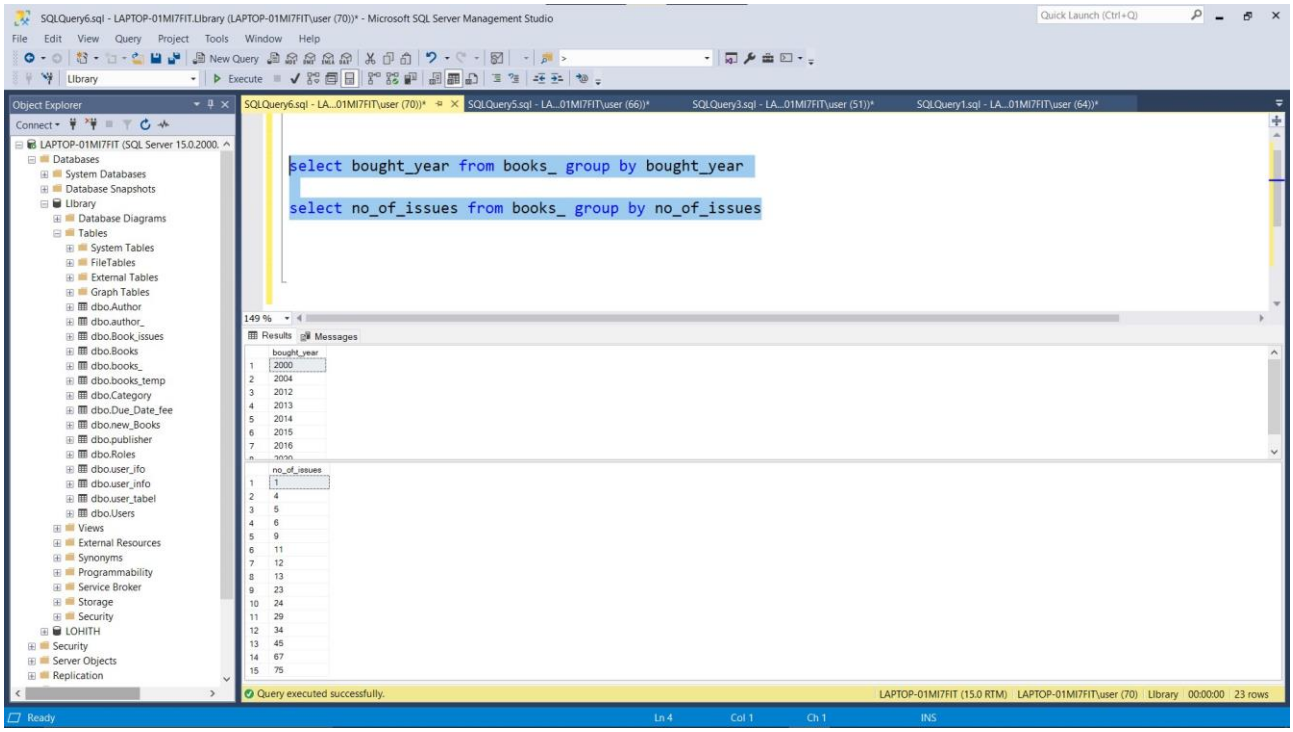
ii)GROUP BY :-



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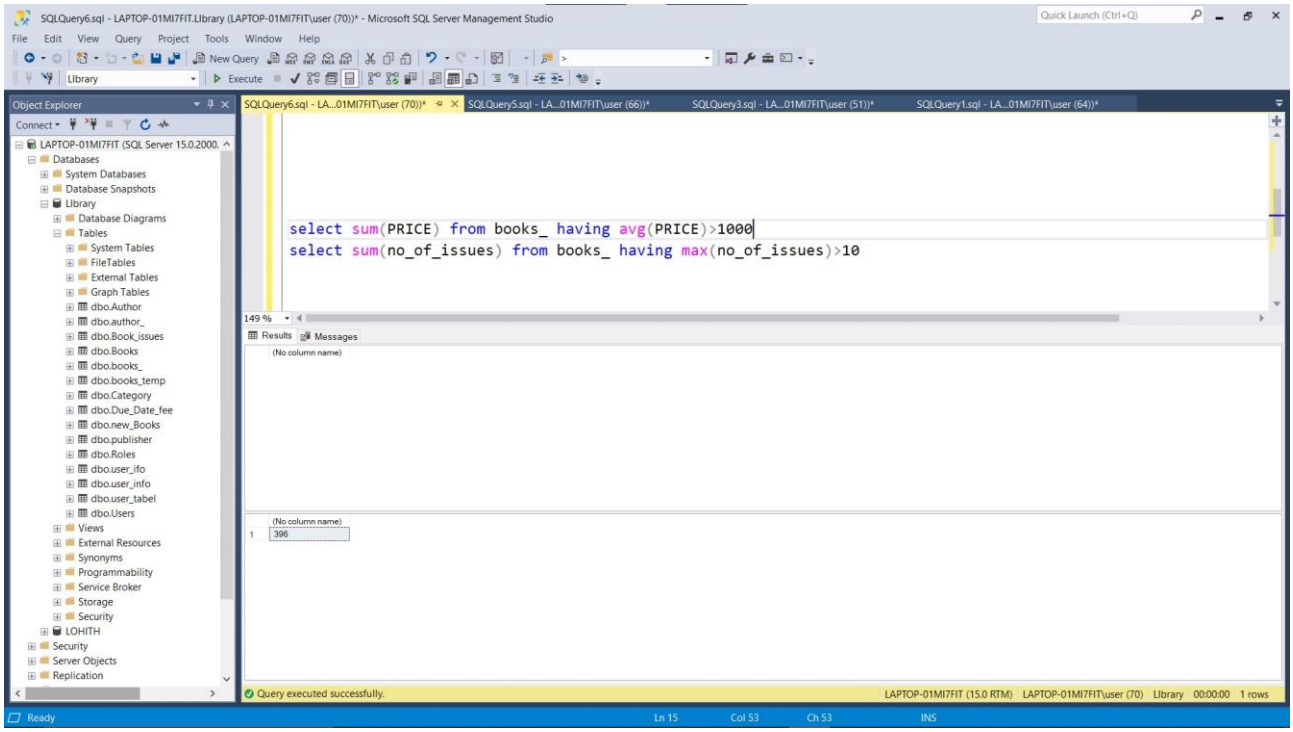
iii) HAVING :-



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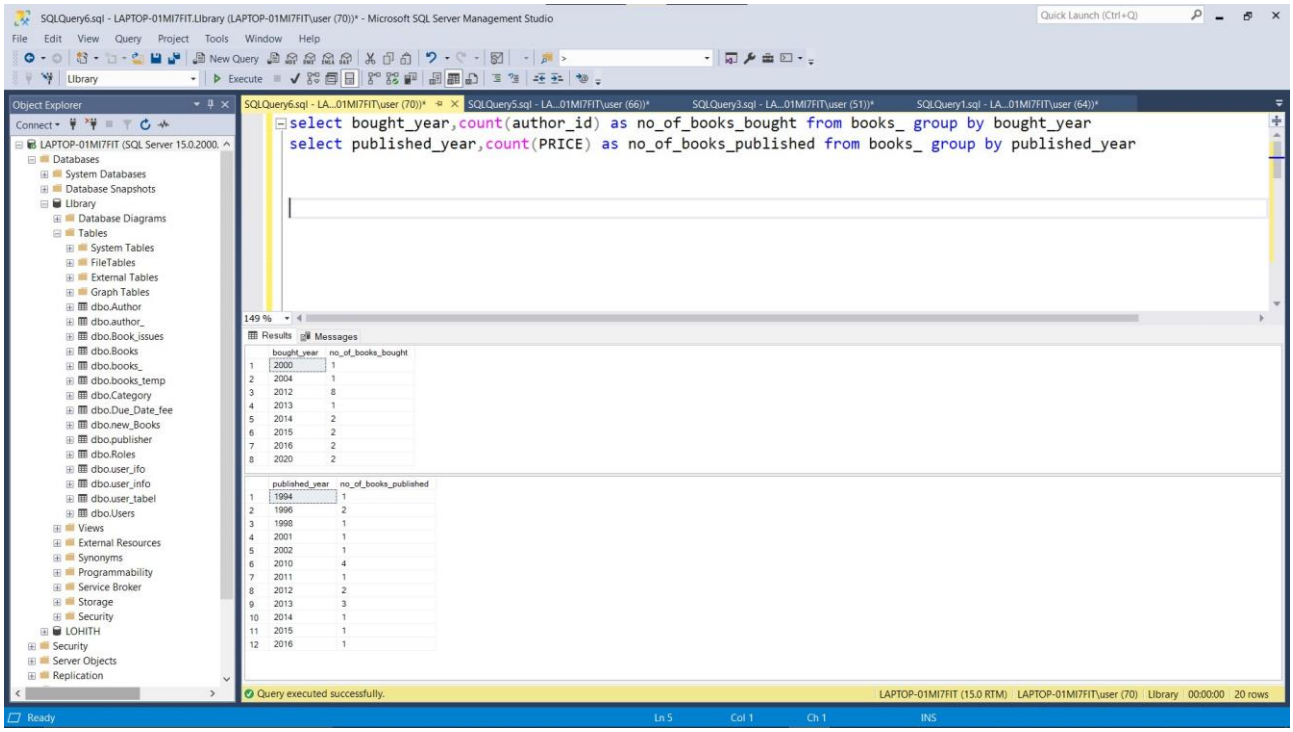
4)Use Aggregate function with group by and having



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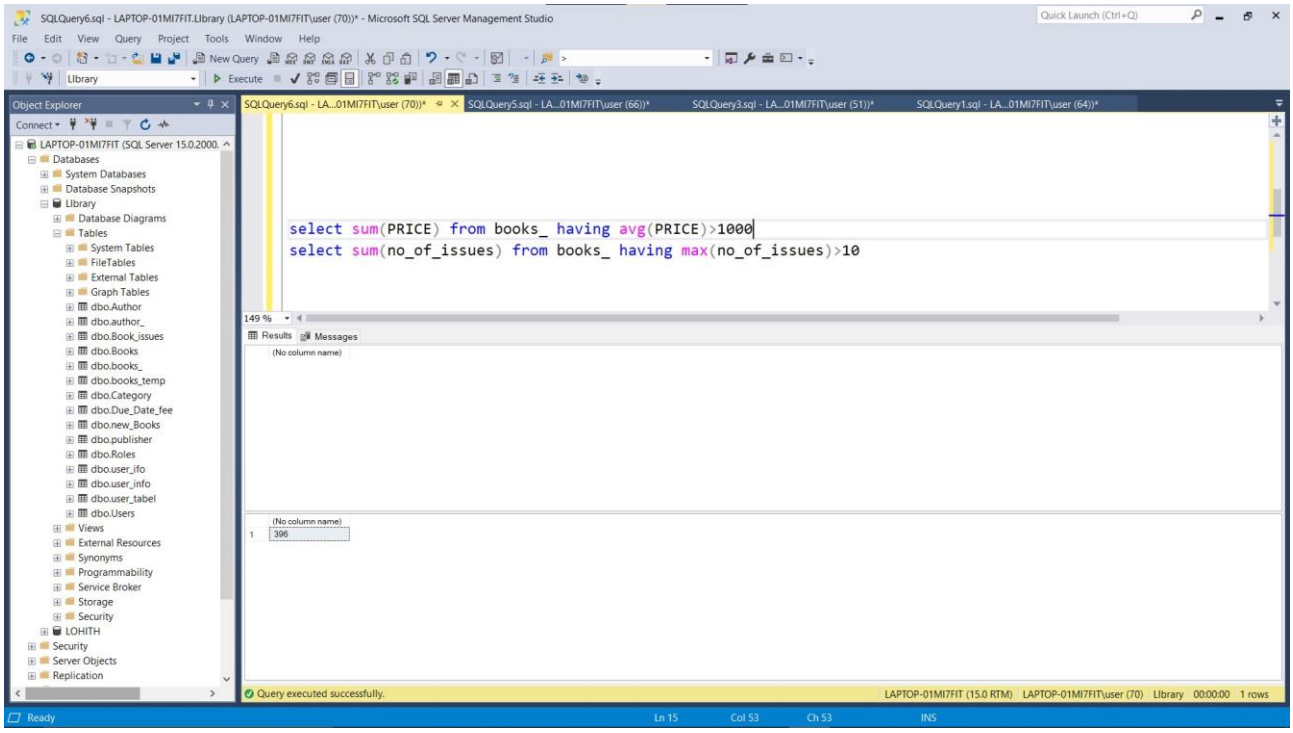

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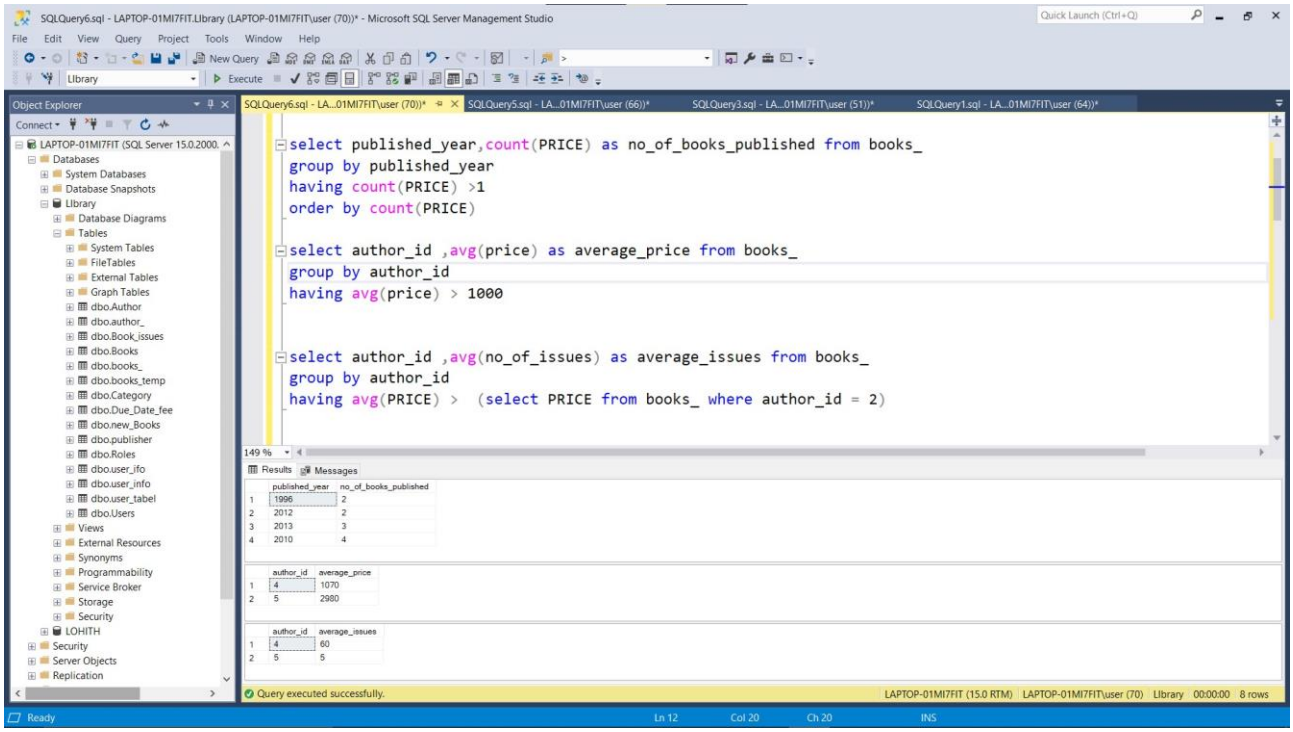
5) Write at least 3 nested queries using order by, group by and having clause.



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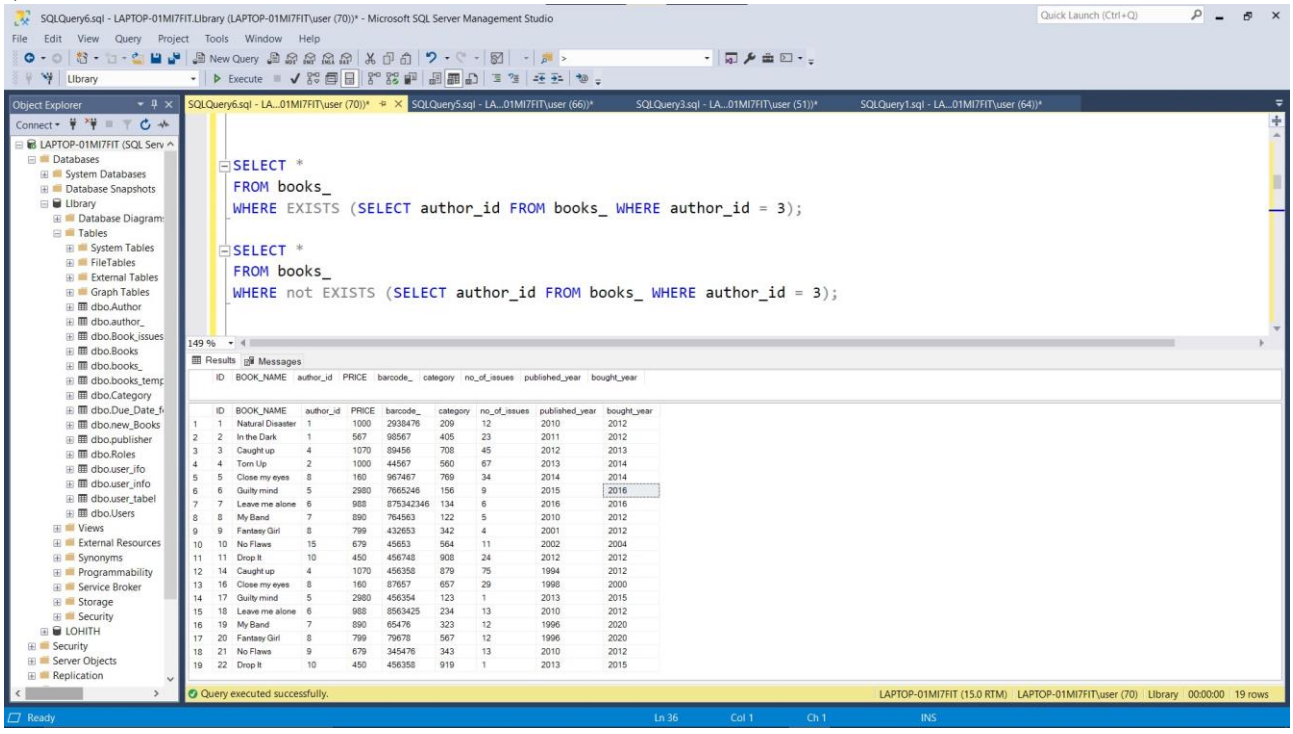
6)Illustrate the Usage of Except, Exists, Not Exists, Union, Intersection

i) EXISTS and NOT EXISTS :-



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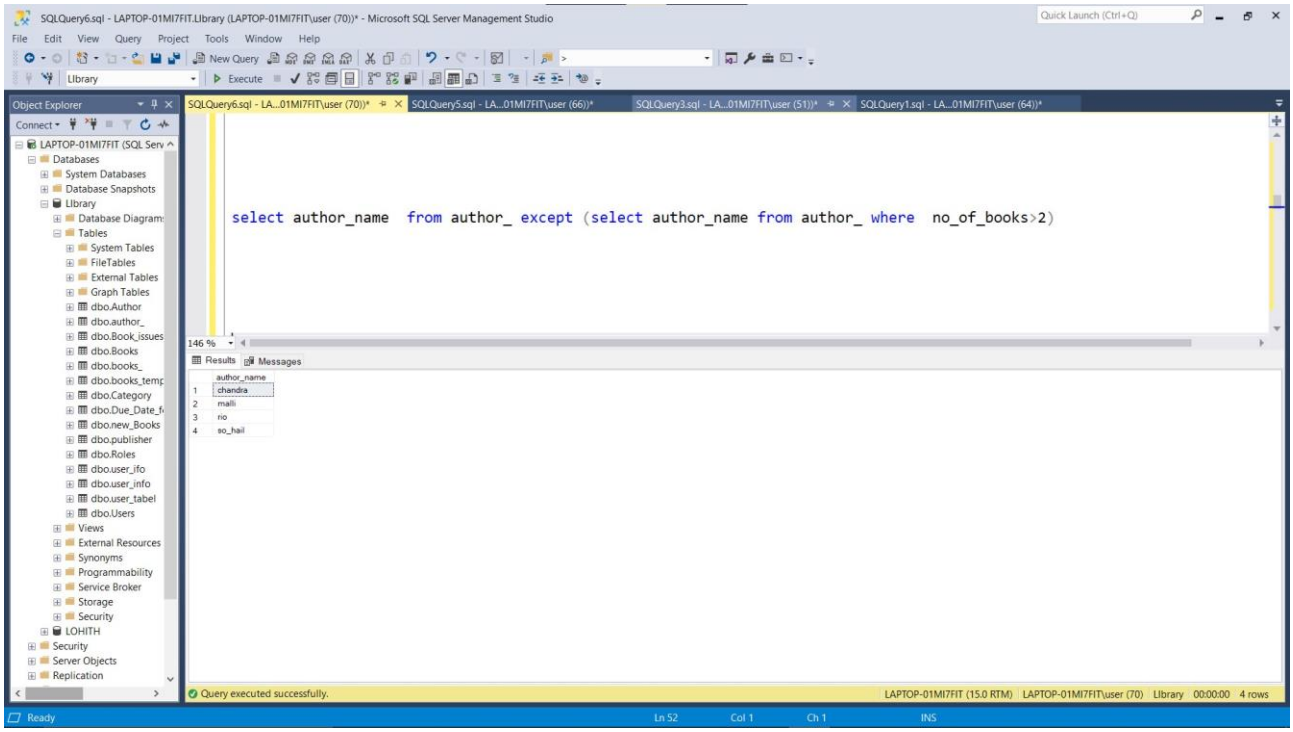
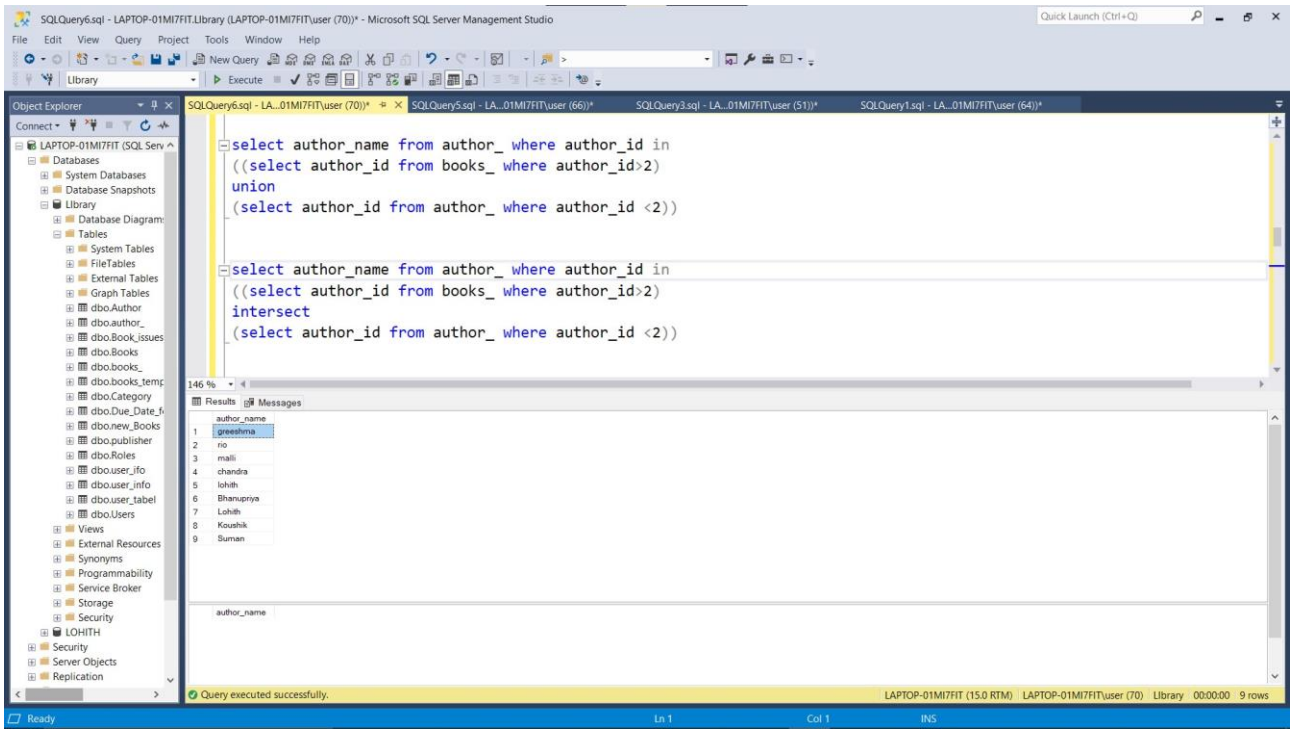
ii) EXCEPT :-



~ iii) UNION and INTERSECT

:-



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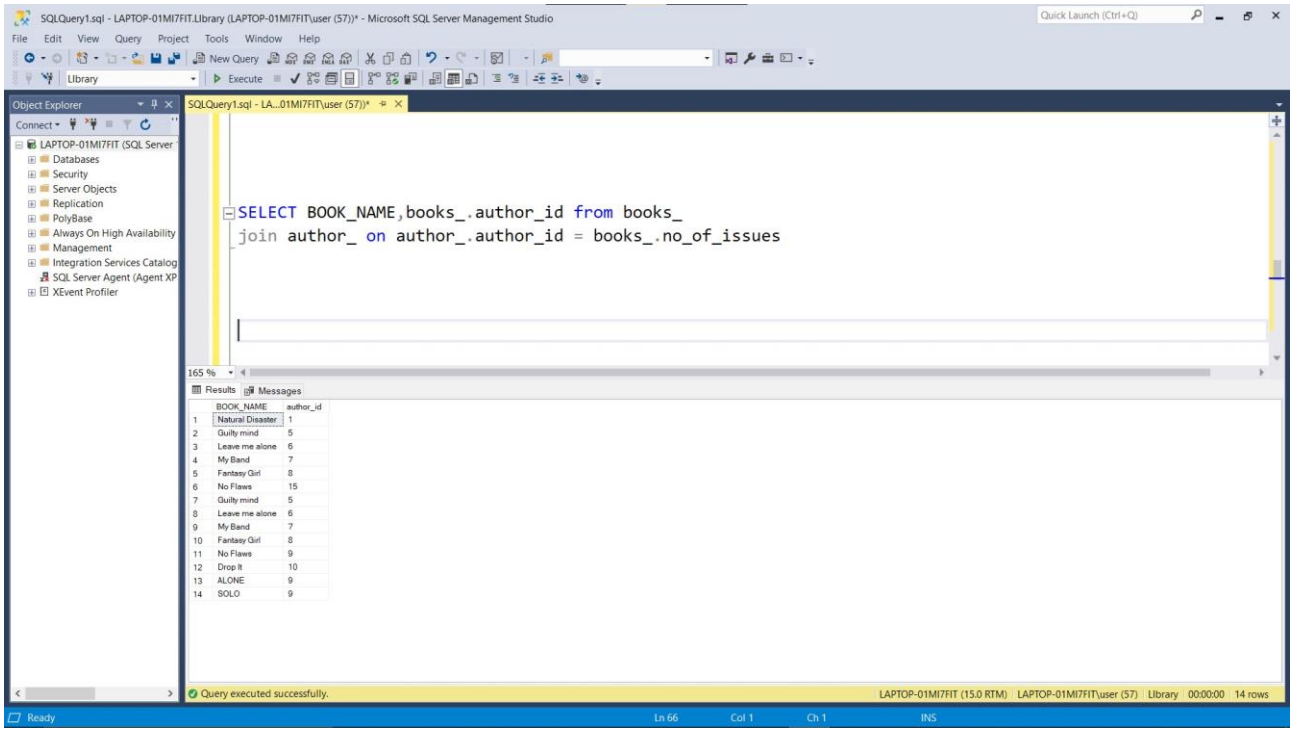
7) INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN- 3 queries for each instance

I) JOIN :-


SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
Execute
LIbrary
Object Explorer
Connect
LAPTOP-01MI7FIT (SQL Server
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalog
SQL Server Agent (Agent XP
XEvent Profiler
SQLQuery1.sql - LA...01MI7FIT\user (57))*
SELECT BOOK_NAME,books_.author_id from books_
join author_ on author_.author_id = books_.no_of_issues
165 %
Results
Messages
BOOK_NAME author_id
1 Natural Disaster 1
2 Guilty mind 5
3 Leave me alone 6
4 My Band 7
5 Fantasy Girl 8
6 No Flaws 15
7 Guilty mind 5
8 Leave me alone 6
9 My Band 7
10 Fantasy Girl 8
11 No Flaws 9
12 Drop It 10
13 ALONE 9
14 SOLO 9
Query executed successfully.
LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (57) LIbrary 00:00:00 14 rows
Ready
Ln 66 Col 1 Ch 1 INS

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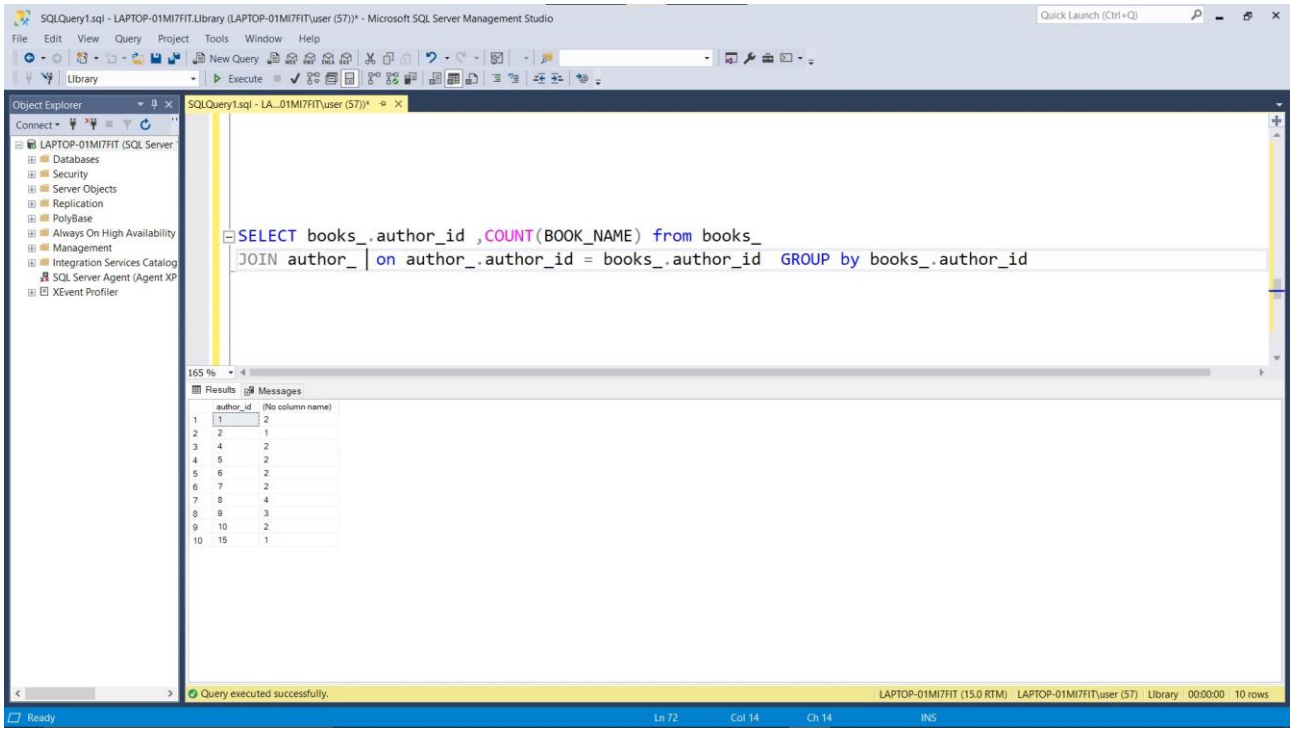
SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
Execute
LIbrary
Object Explorer
Connect
LAPTOP-01MI7FIT (SQL Server
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalog
SQL Server Agent (Agent XP
XEvent Profiler
SQLQuery1.sql - LA...01MI7FIT\user (57))*
SELECT books_.author_id ,COUNT(BOOK_NAME) from books_
JOIN author_ on author_.author_id = books_.author_id GROUP by books_.author_id
165 %
Results
Messages
author_id (No column name)
1 1 2
2 2 1
3 4 2
4 5 2
5 6 2
6 7 2
7 8 4
8 9 3
9 10 2
10 15 1
Query executed successfully.
LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (57) LIbrary 00:00:00 10 rows
Ready
Ln 72 Col 14 Ch 14 INS

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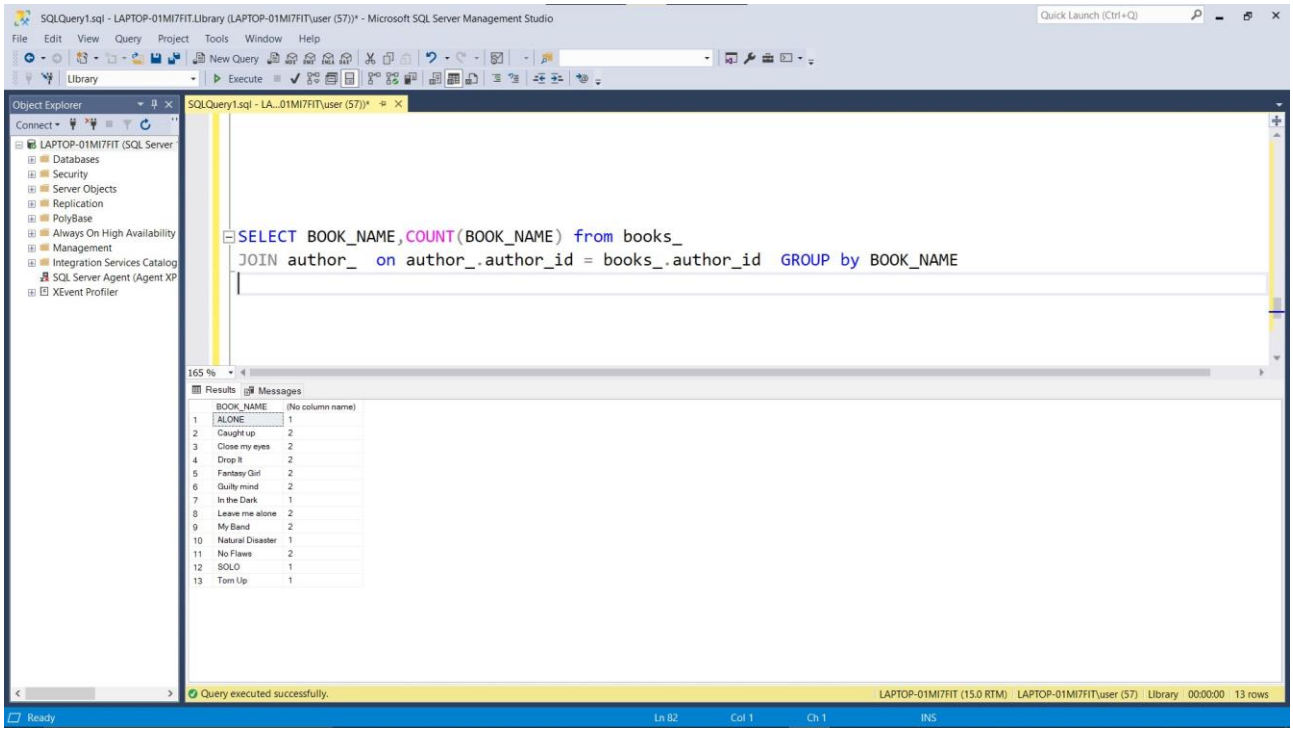
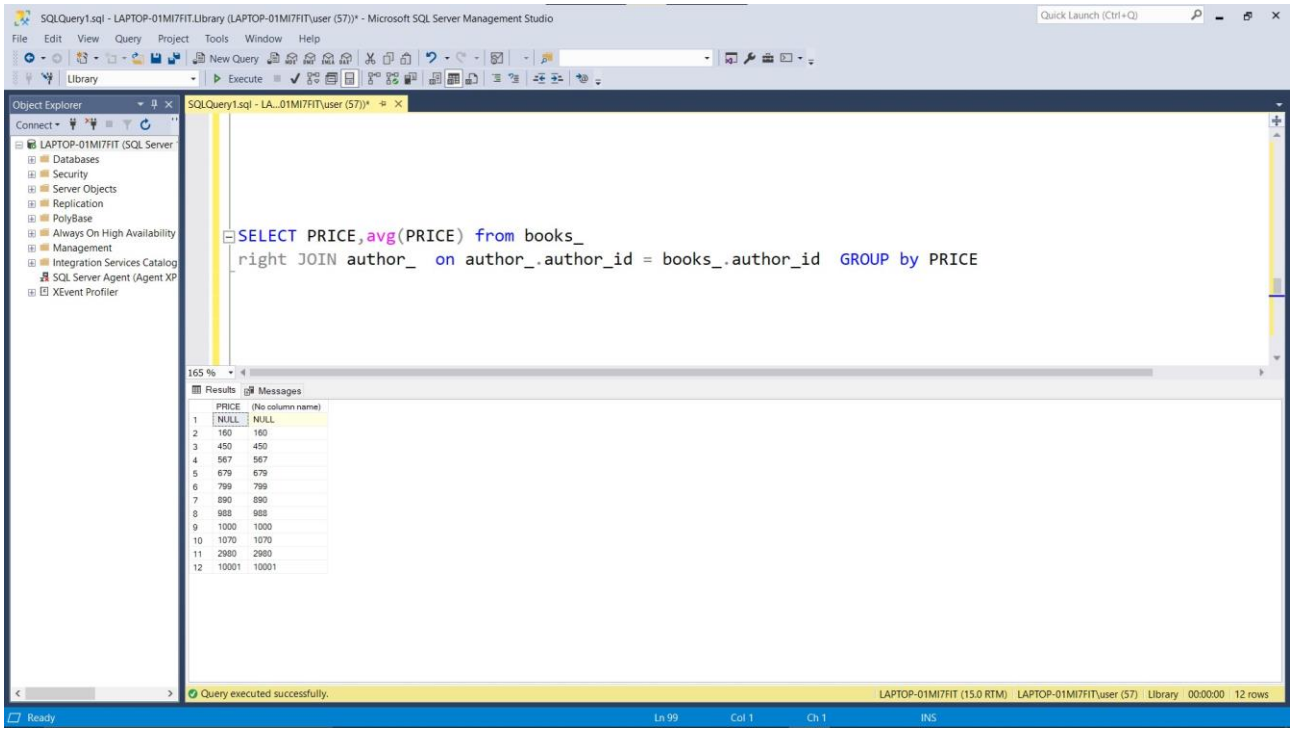


~

ii) RIGHT JOIN :-



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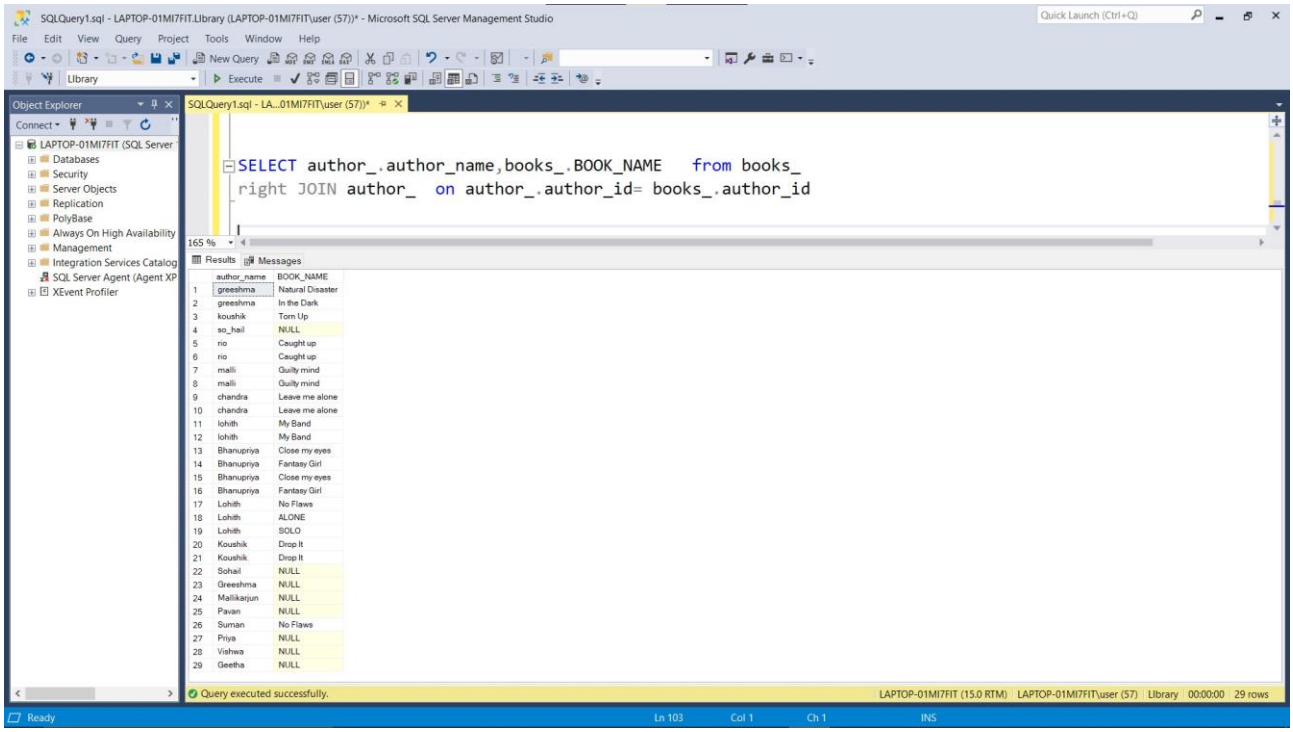

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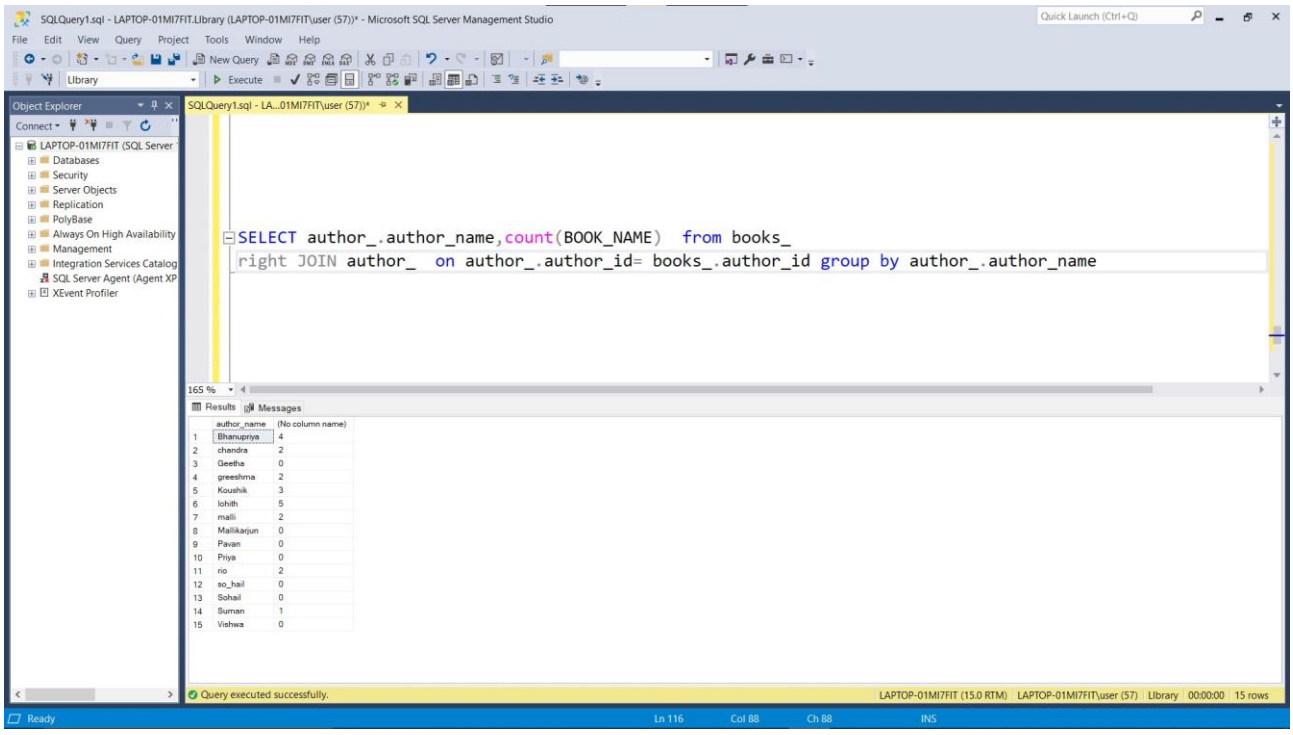
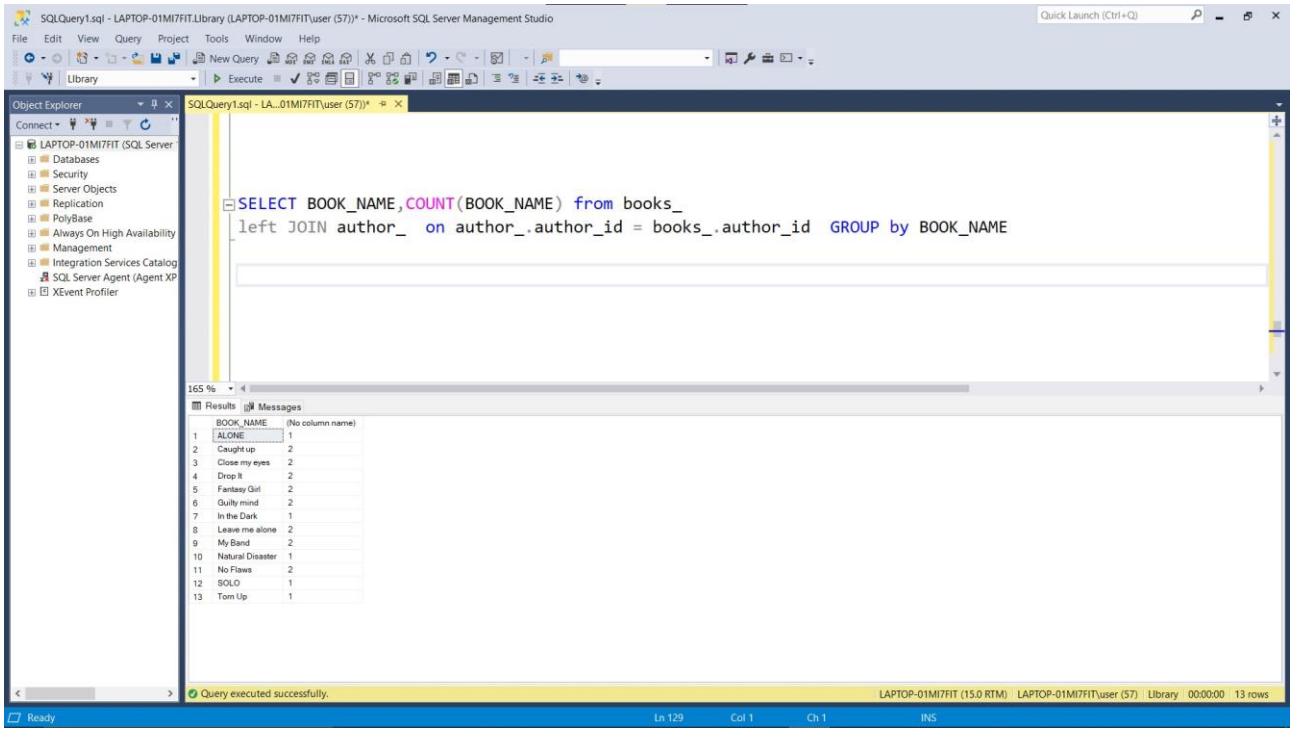
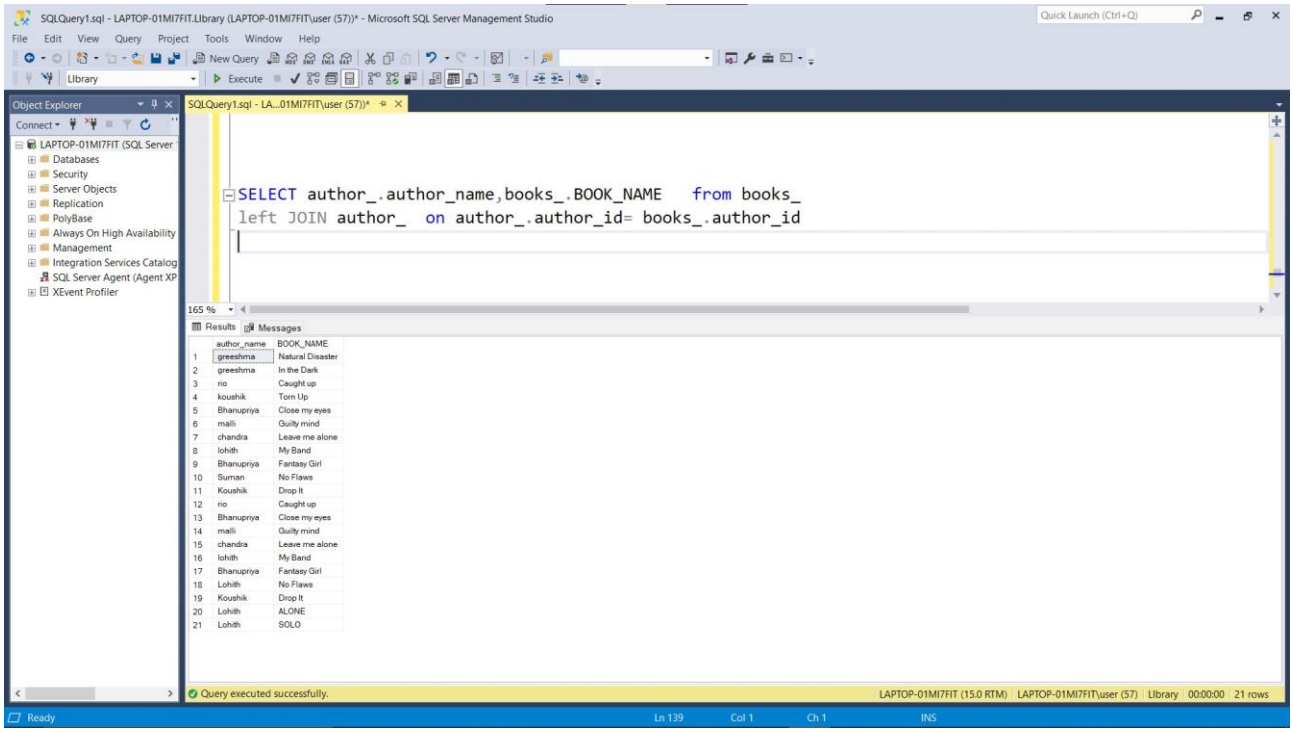


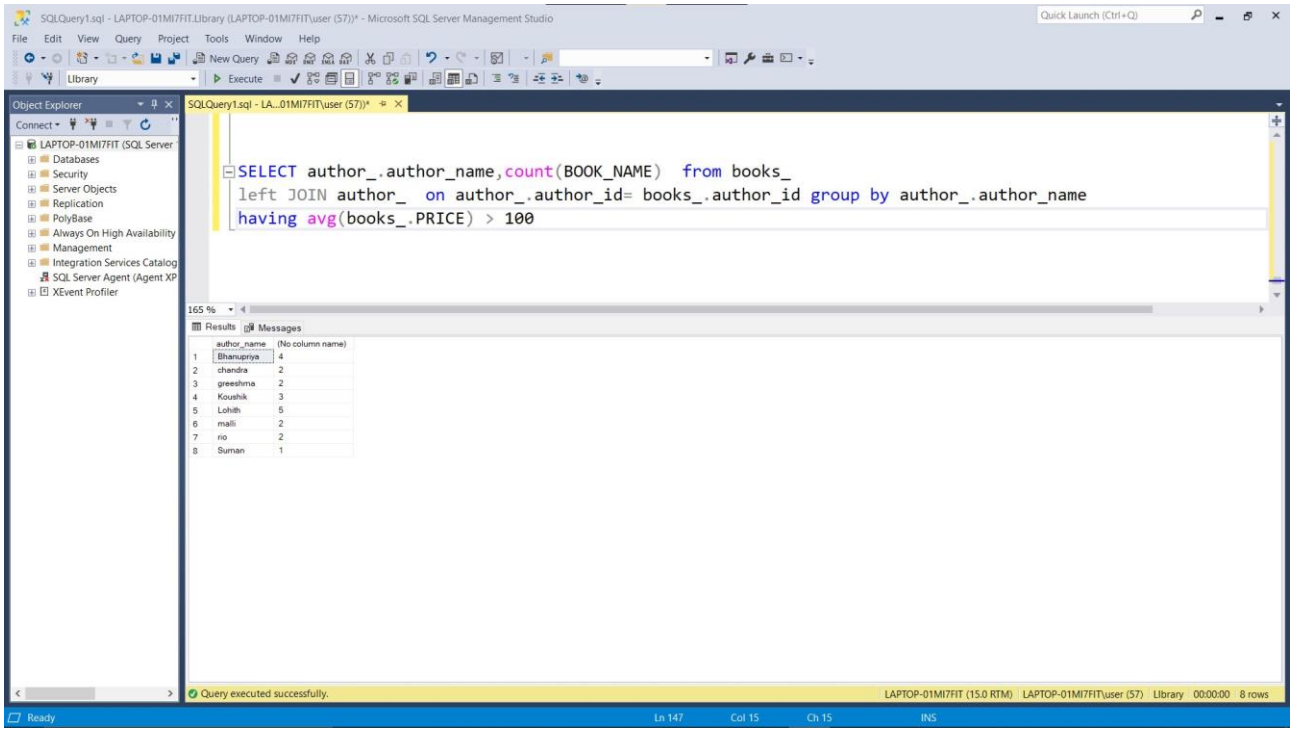
~ iii) LEFT JOIN :-


SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
SELECT BOOK_NAME,COUNT(BOOK_NAME) from books_
left JOIN author_ on author_.author_id = books_.author_id GROUP by BOOK_NAME
BOOK_NAME (No column name)
ALONE 1
Caught up 2
Close my eyes 2
Drop It 2
Fantasy Girl 2
Guilty mind 2
In the Dark 1
Leave me alone 2
My Band 2
Natural Disaster 1
No Flaws 2
SOLO 1
Torn Up 1
Query executed successfully.

~


SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
SELECT author_.author_name,books_.BOOK_NAME from books_
left JOIN author_ on author_.author_id= books_.author_id
author_name BOOK_NAME
greeshma Natural Disaster
greeshma In the Dark
rio Caught up
koushik Torn Up
Bhanupriya Close my eyes
malli Guilty mind
chandra Leave me alone
lohith My Band
Bhanupriya Fantasy Girl
Suman No Flaws
Koushik Drop It
rio Caught up
Bhanupriya Close my eyes
malli Guilty mind
chandra Leave me alone
lohith My Band
Bhanupriya Fantasy Girl
Lohith No Flaws
Koushik Drop It
Lohith ALONE
Lohith SOLO
Query executed successfully.

~


SQLQuery1.sql - LAPTOP-01MI7FIT.Library (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
Library
Execute
Object Explorer
Connect
LAPTOP-01MI7FIT (SQL Server
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalog
SQL Server Agent (Agent XP
XEvent Profiler
SQLQuery1.sql - LA...01MI7FIT\user (57))*
SELECT author_.author_name,count(BOOK_NAME) from books_
left JOIN author_ on author_.author_id= books_.author_id group by author_.author_name
having avg(books_.PRICE) > 100
165 %
Results
Messages
author_name (No column name)
1 Bhanupriya 4
2 chandra 2
3 greeshma 2
4 Koushik 3
5 Lohith 5
6 malli 2
7 rio 2
8 Suman 1
Query executed successfully.
LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (57) Library 00:00:00 8 rows
Ready
Ln 147 Col 15 Ch 15 INS