DBMS LAB ASSIGNMENT-5

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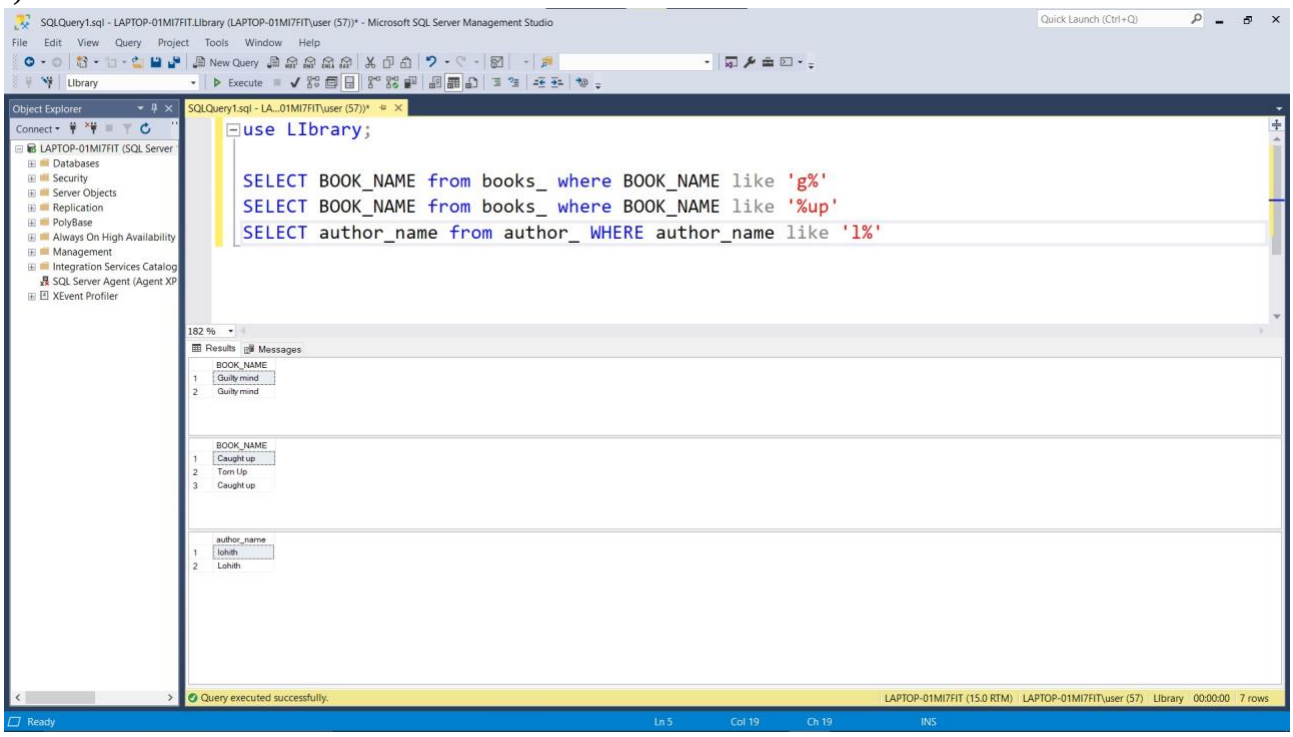
Roll no:-19BCS024

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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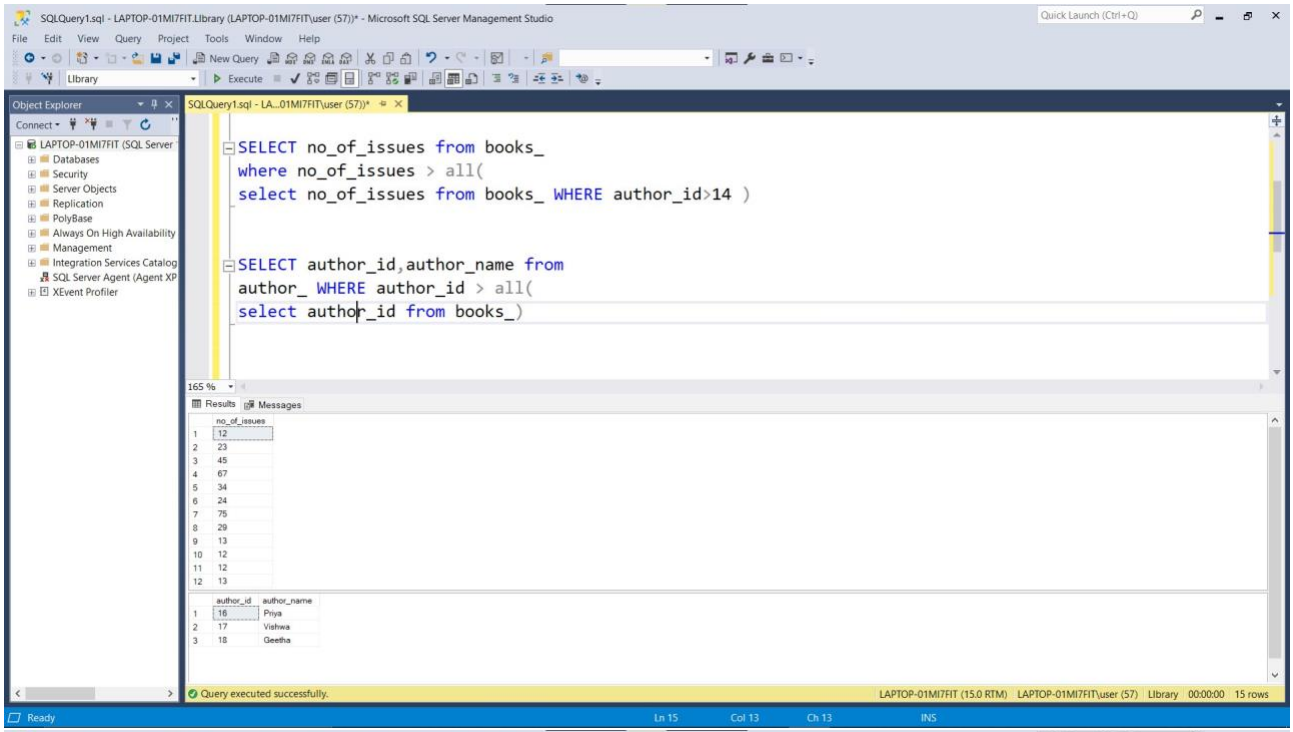
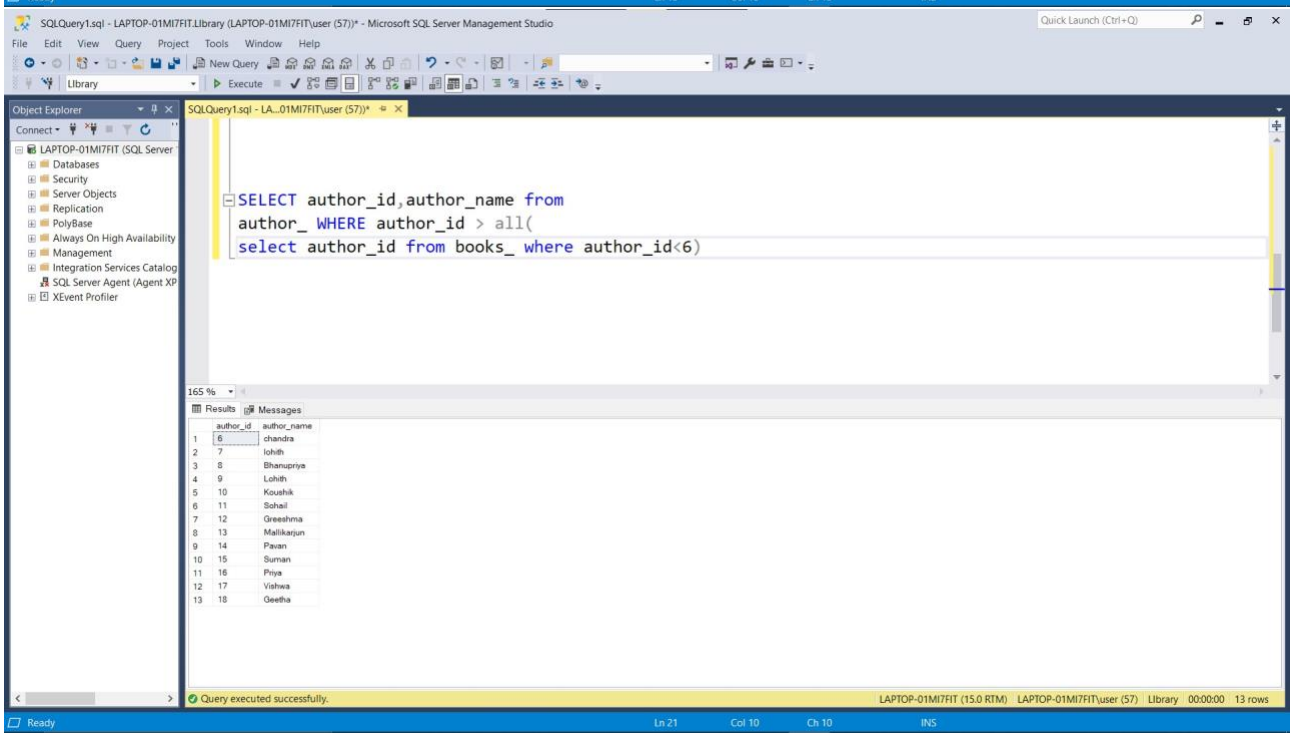
ii) ALL :-


SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
SELECT no_of_issues from books_
where no_of_issues > all(
select no_of_issues from books_ WHERE author_id>14)
SELECT author_id,author_name from
author_ WHERE author_id > all(
select author_id from books_)
no_of_issues
12
23
45
67
34
24
75
29
13
12
12
13
author_id author_name
16 Priya
17 Vishwa
18 Geetha
Query executed successfully.
Ready


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
6 chandra
7 lohith
8 Bhanupriya
9 Lohith
10 Koushik
11 Sohail
12 Greeshma
13 Mallikarjun
14 Pavan
15 Suman
16 Priya
17 Vishwa
18 Geetha
Query executed successfully.
Ready

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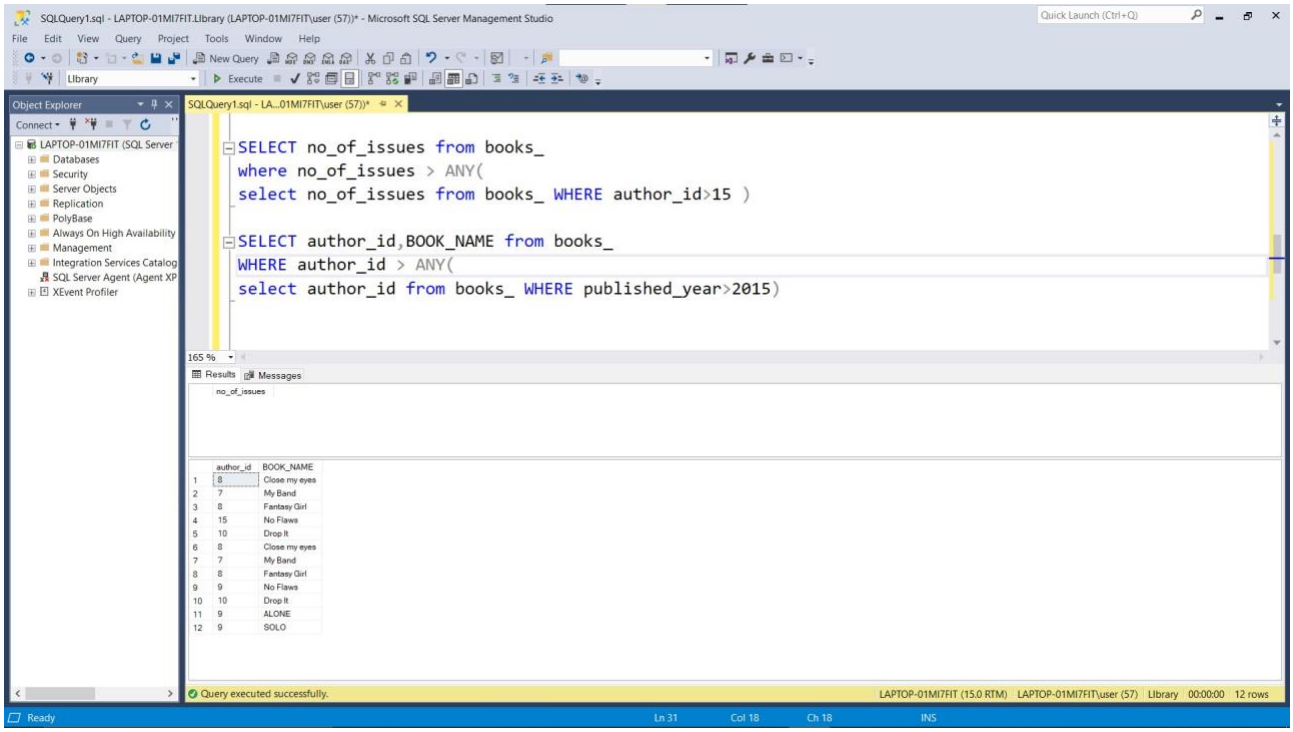
iii) ANY :-



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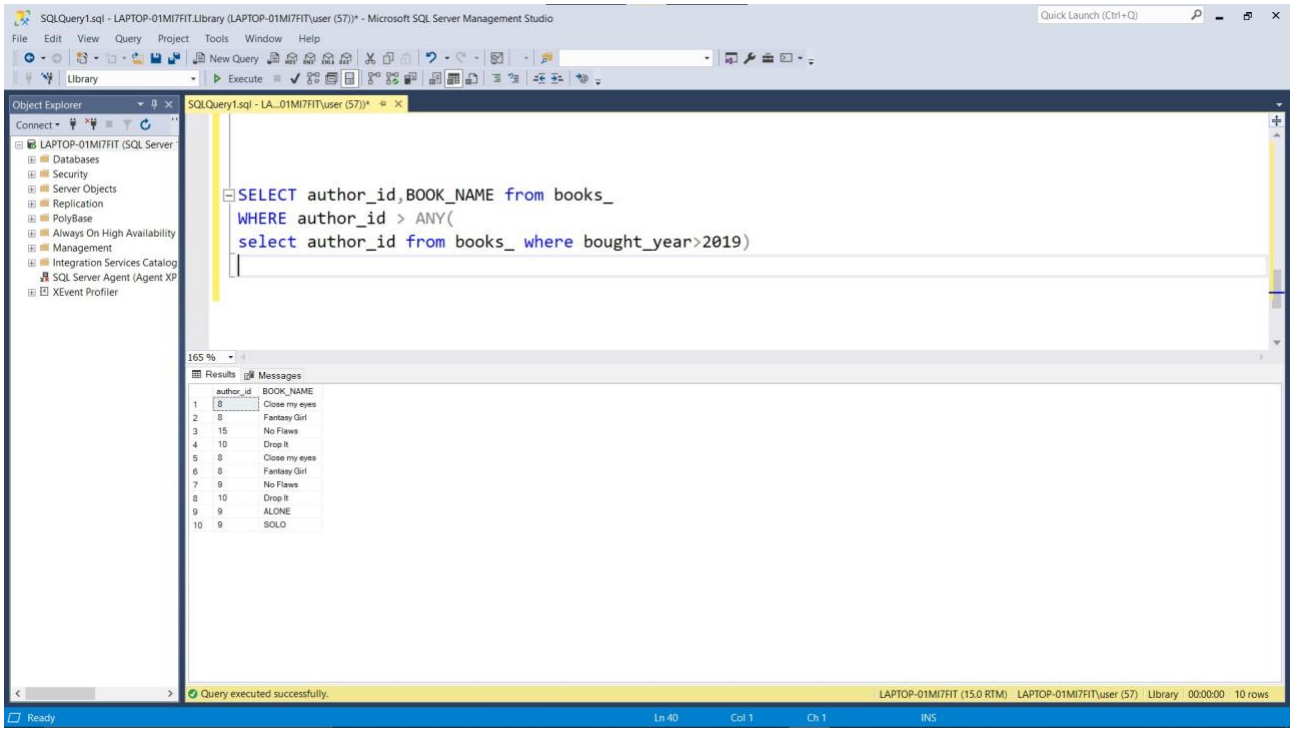
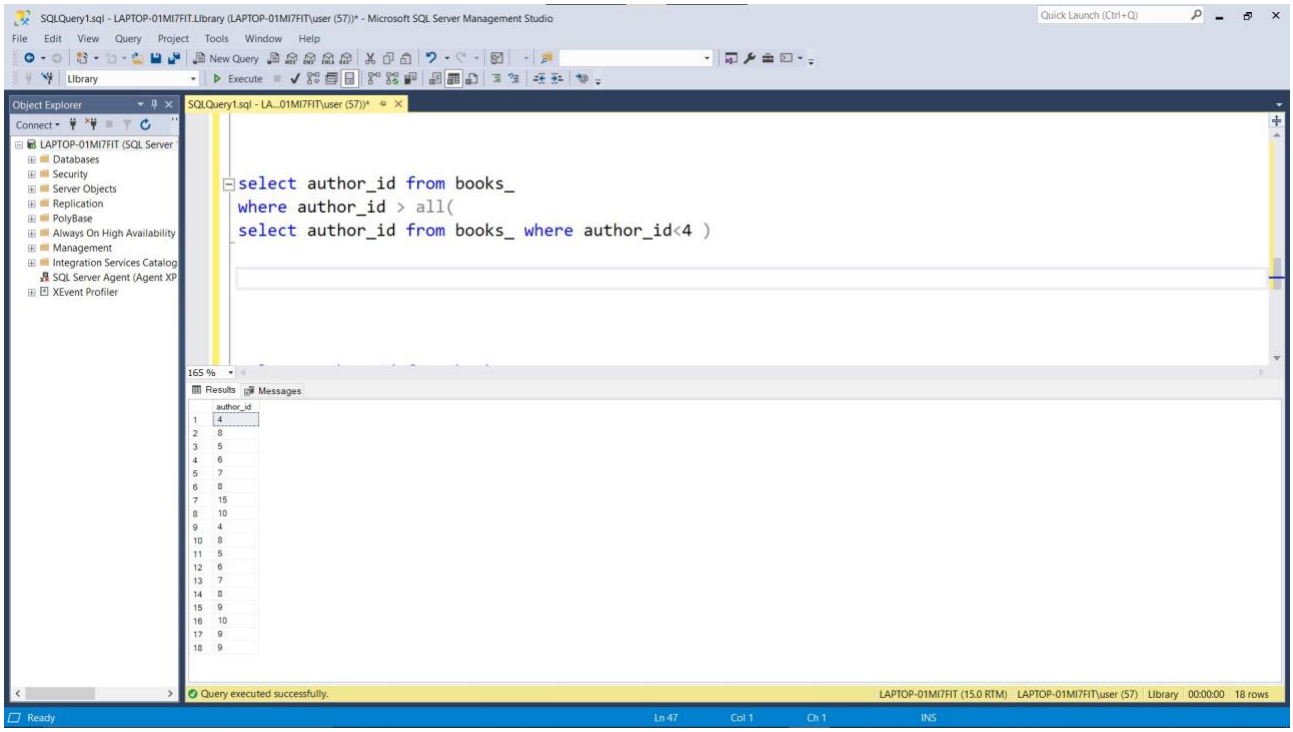


~ iv) ANY and ALL comparison

:-



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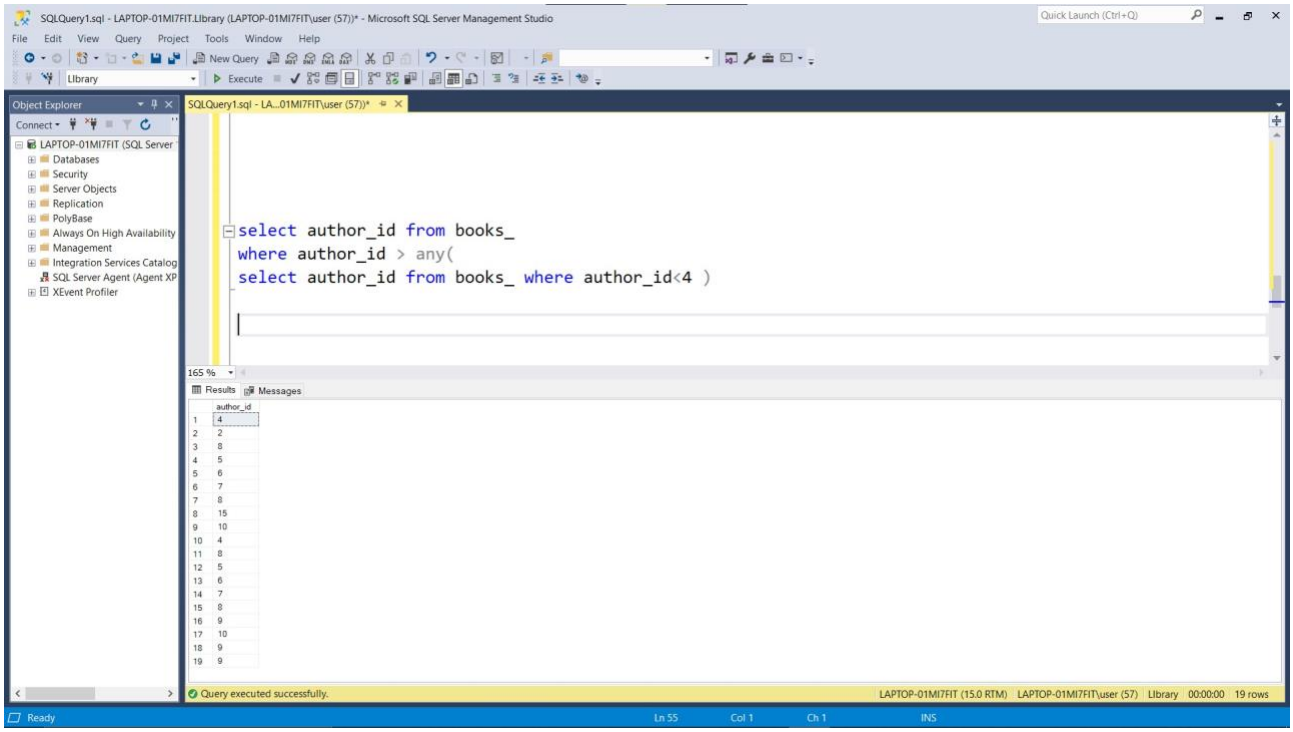

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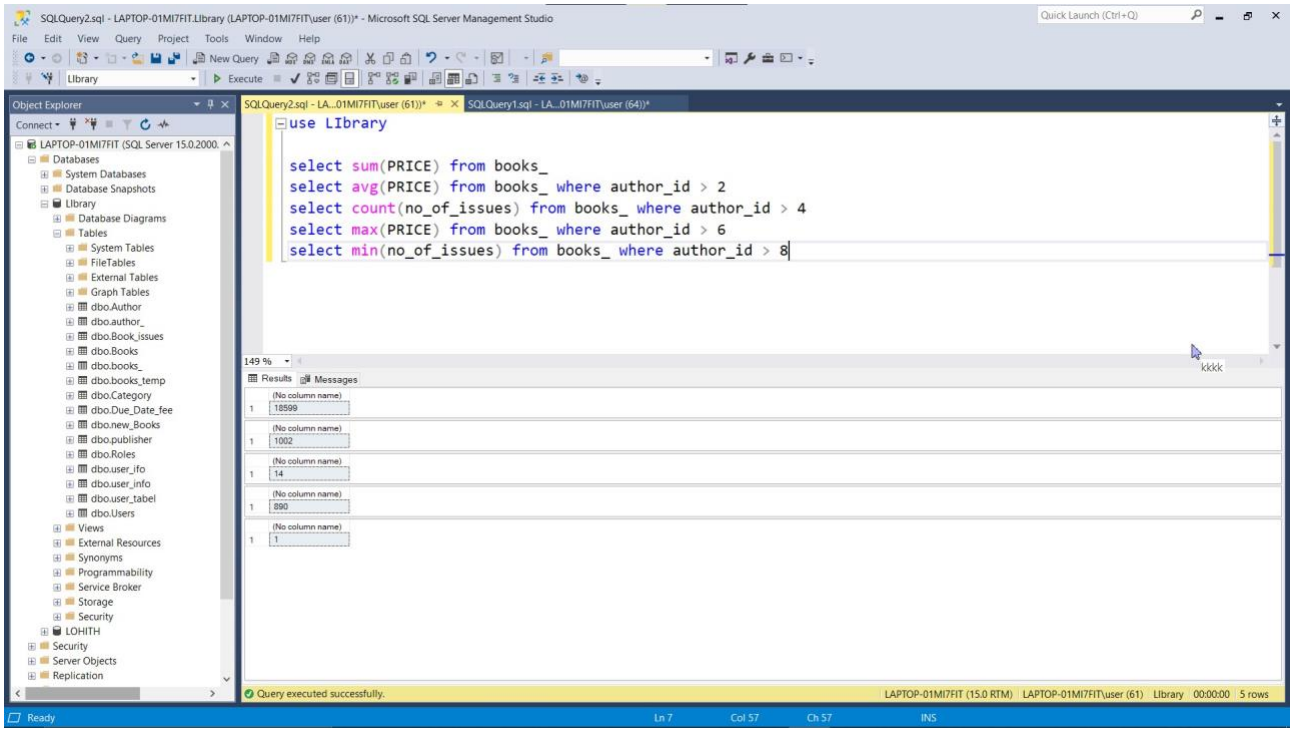
2). One query for each Aggregate function.



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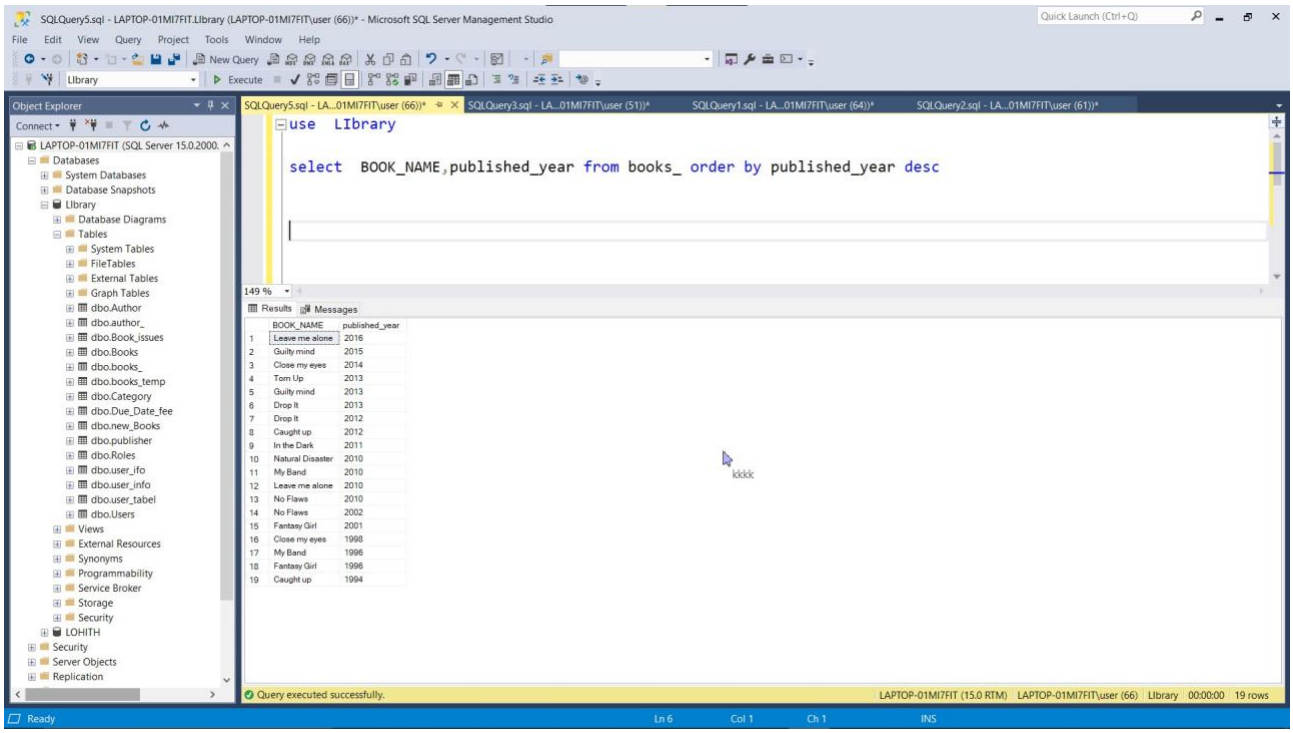
3)

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

i)ORDER BY :-



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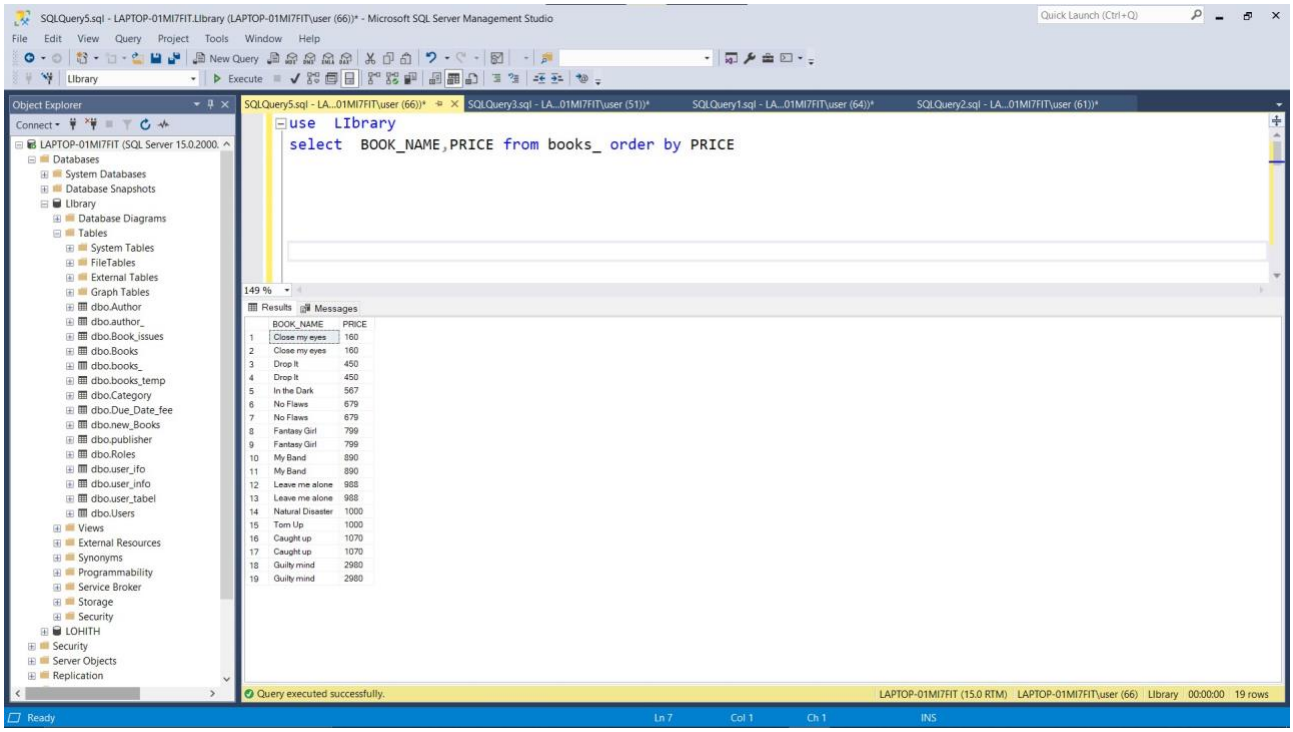

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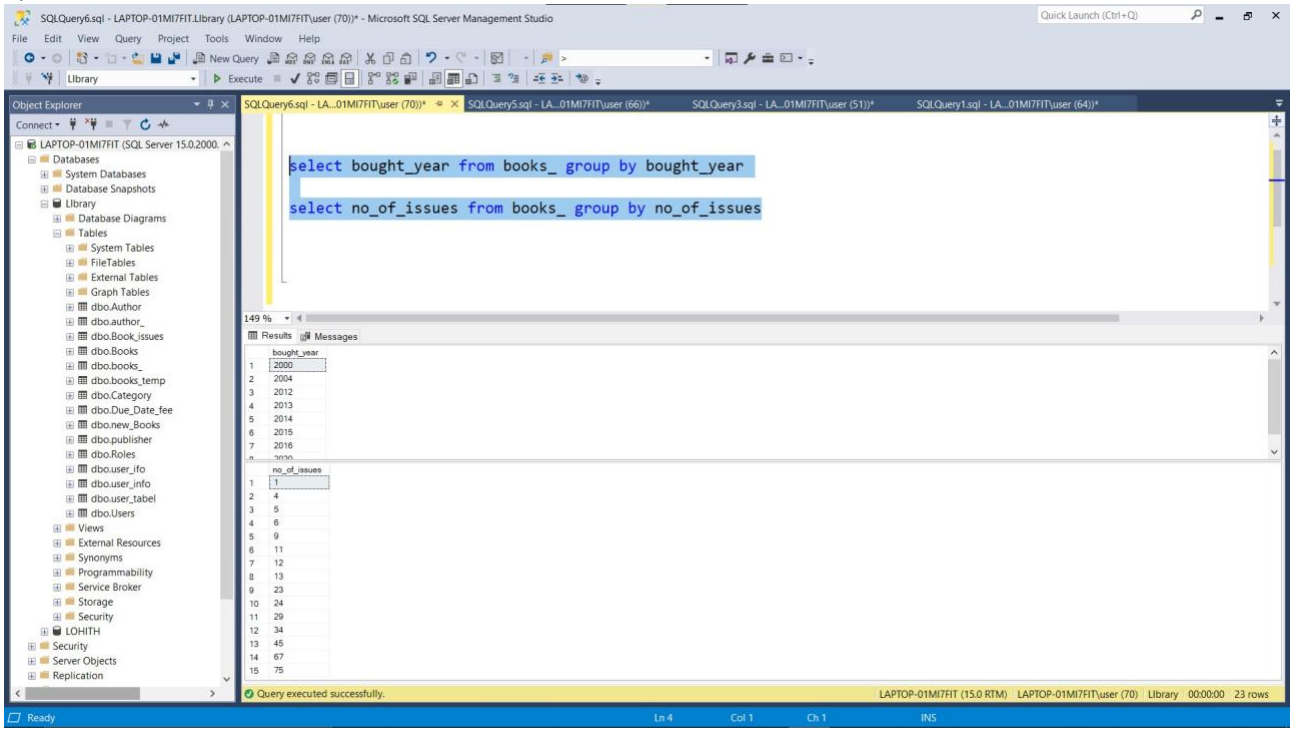
ii)GROUP BY :-



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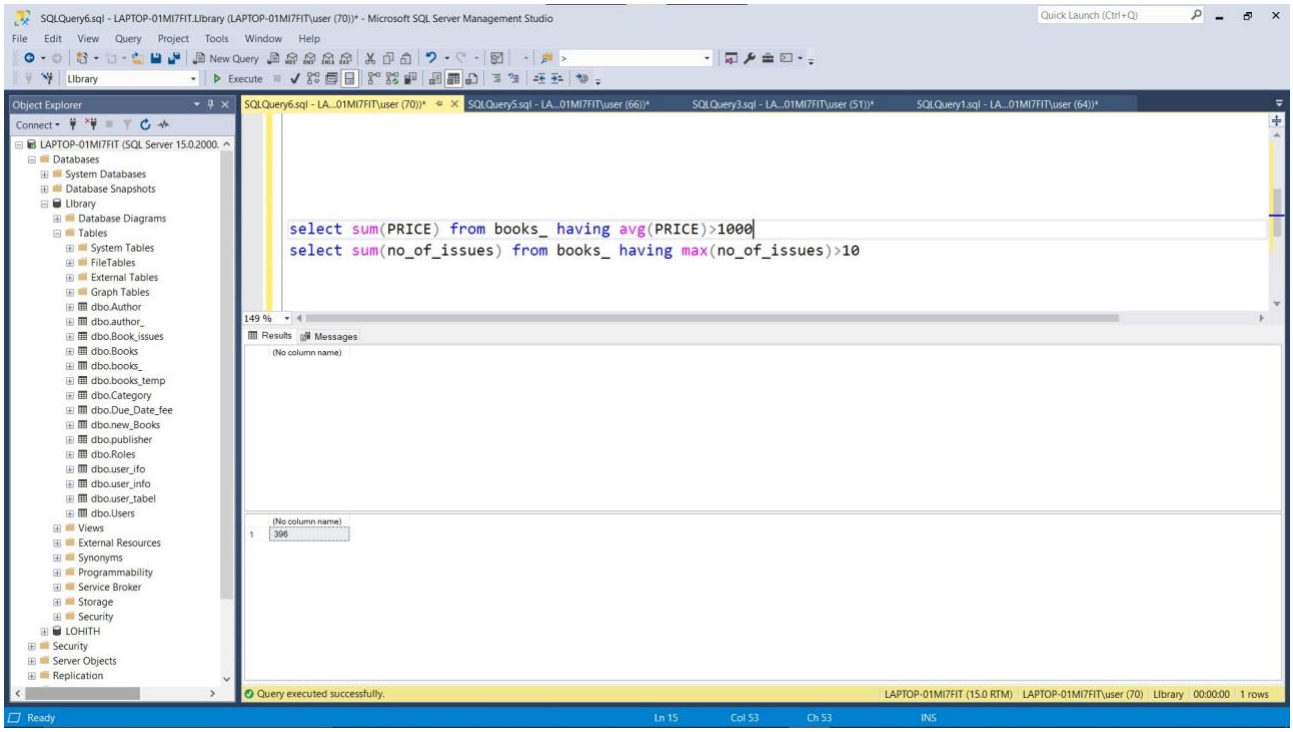
iii) HAVING :-



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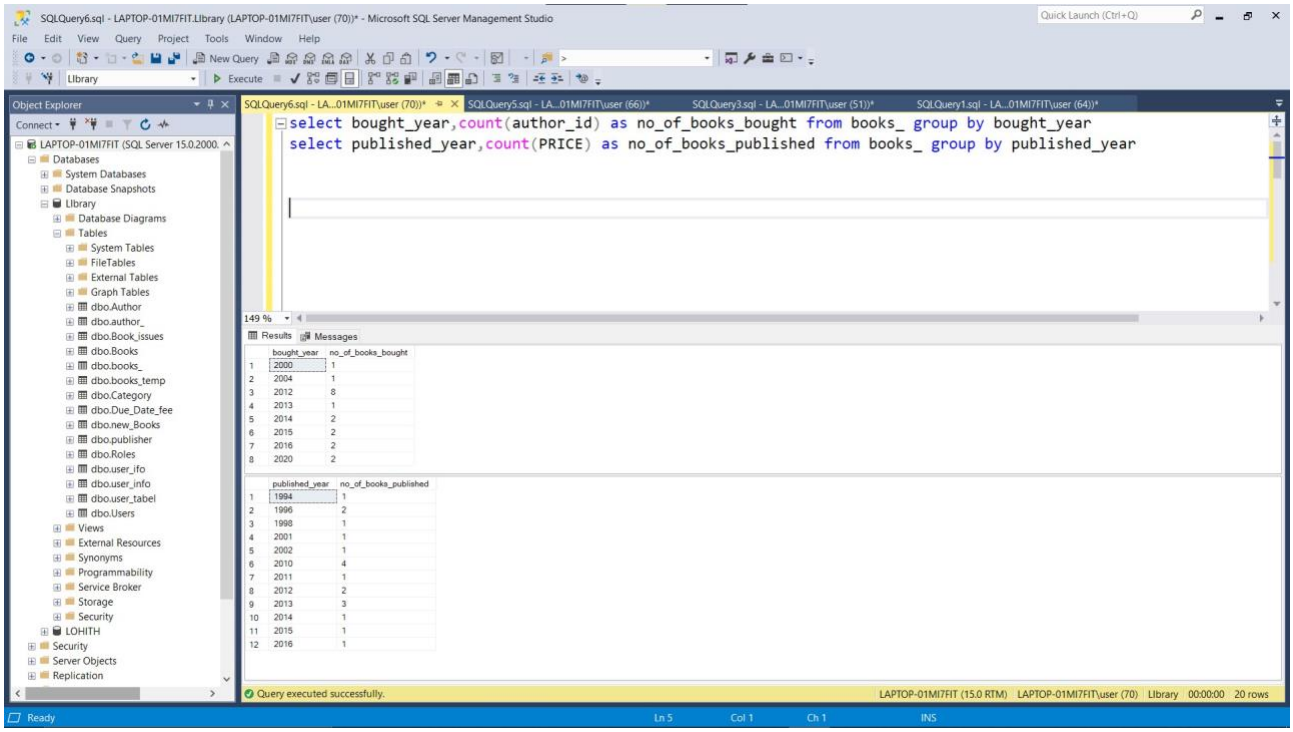
4)Use Aggregate function with group by and having



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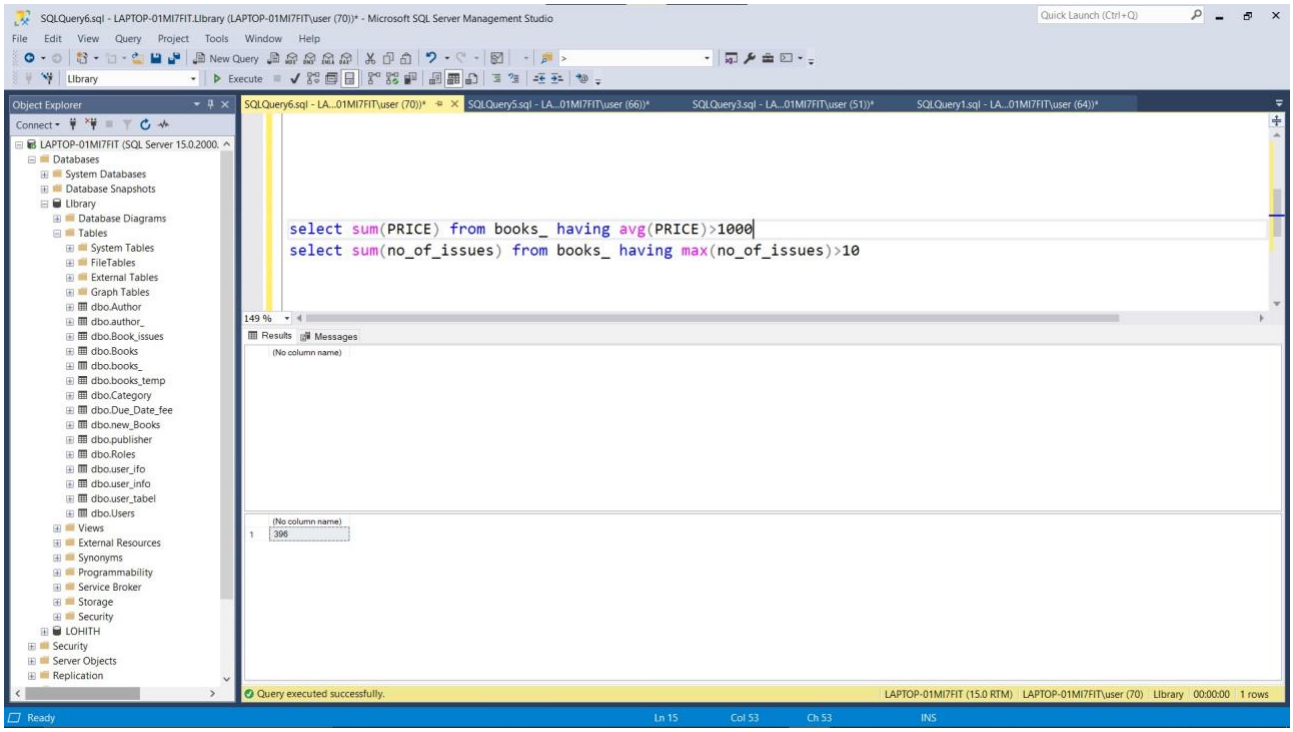

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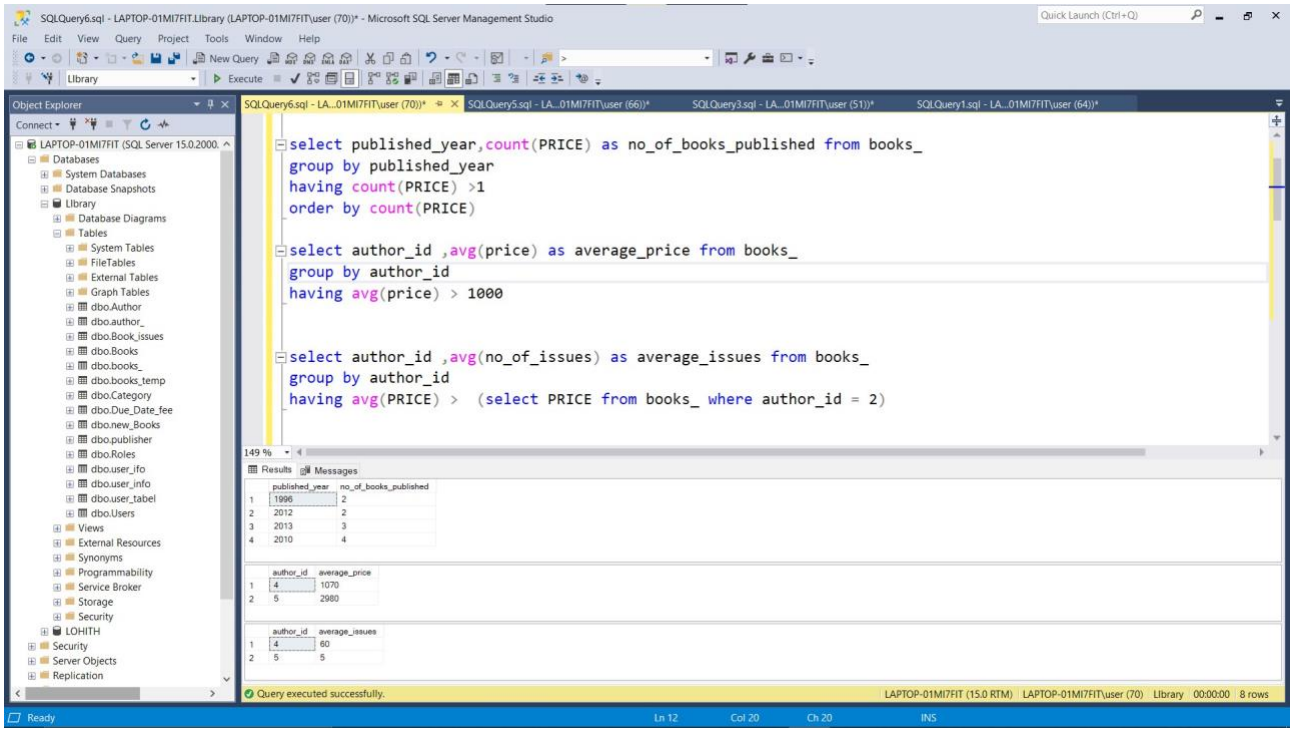
5) Write at least 3 nested queries using order by, group by and having clause.



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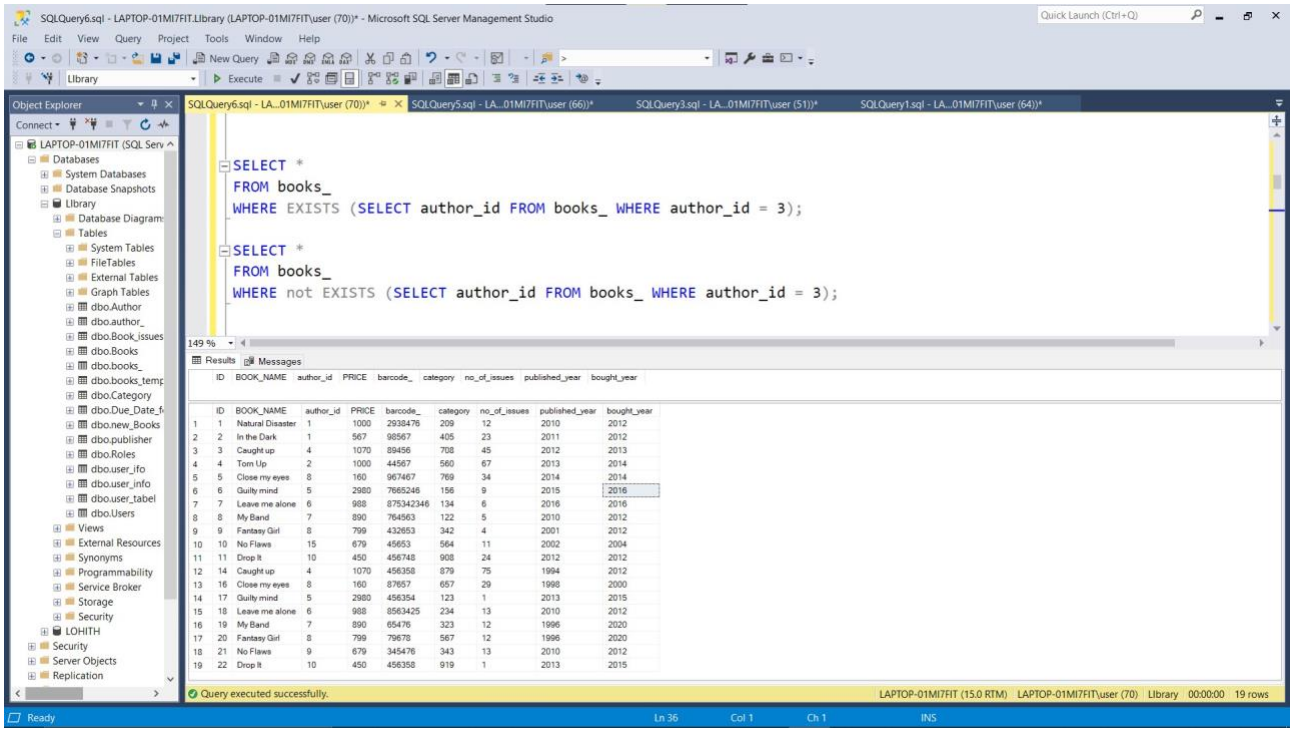
6)Illustrate the Usage of Except, Exists, Not Exists, Union, Intersection

i) EXISTS and NOT EXISTS :-



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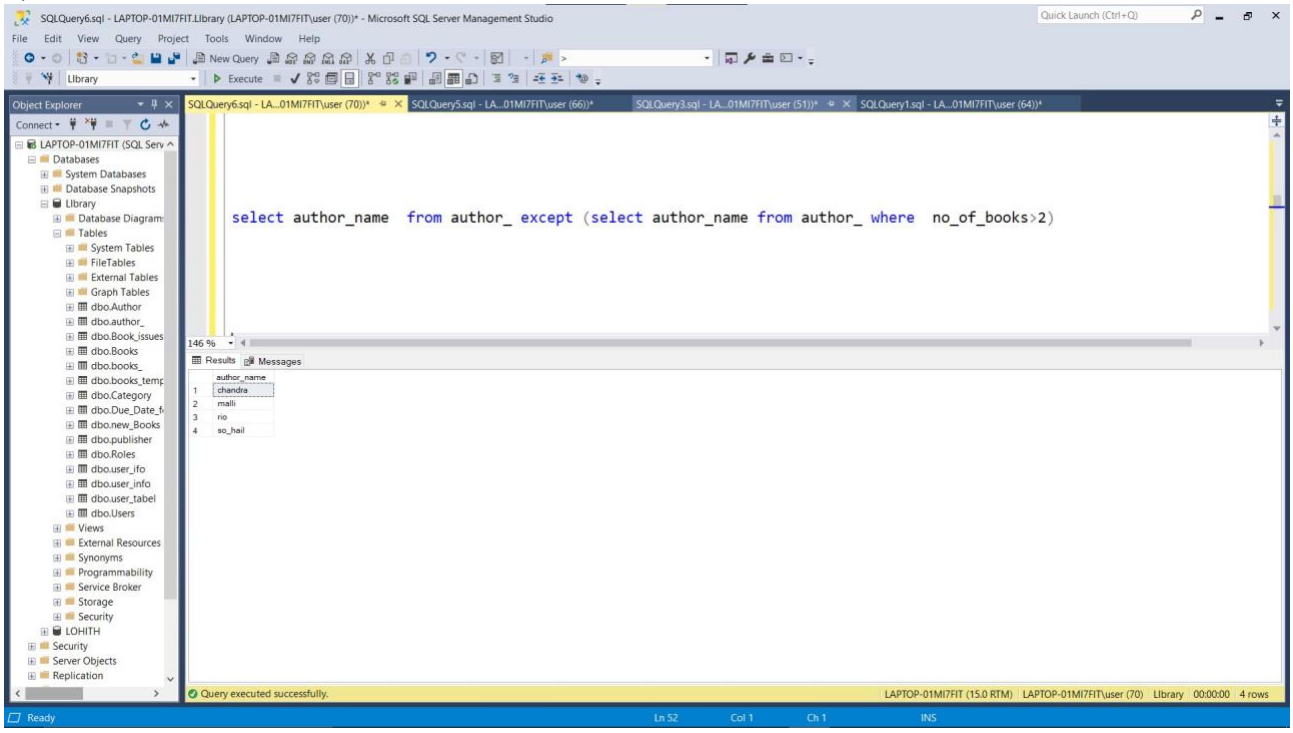
ii) EXCEPT :-



~ iii) UNION and INTERSECT

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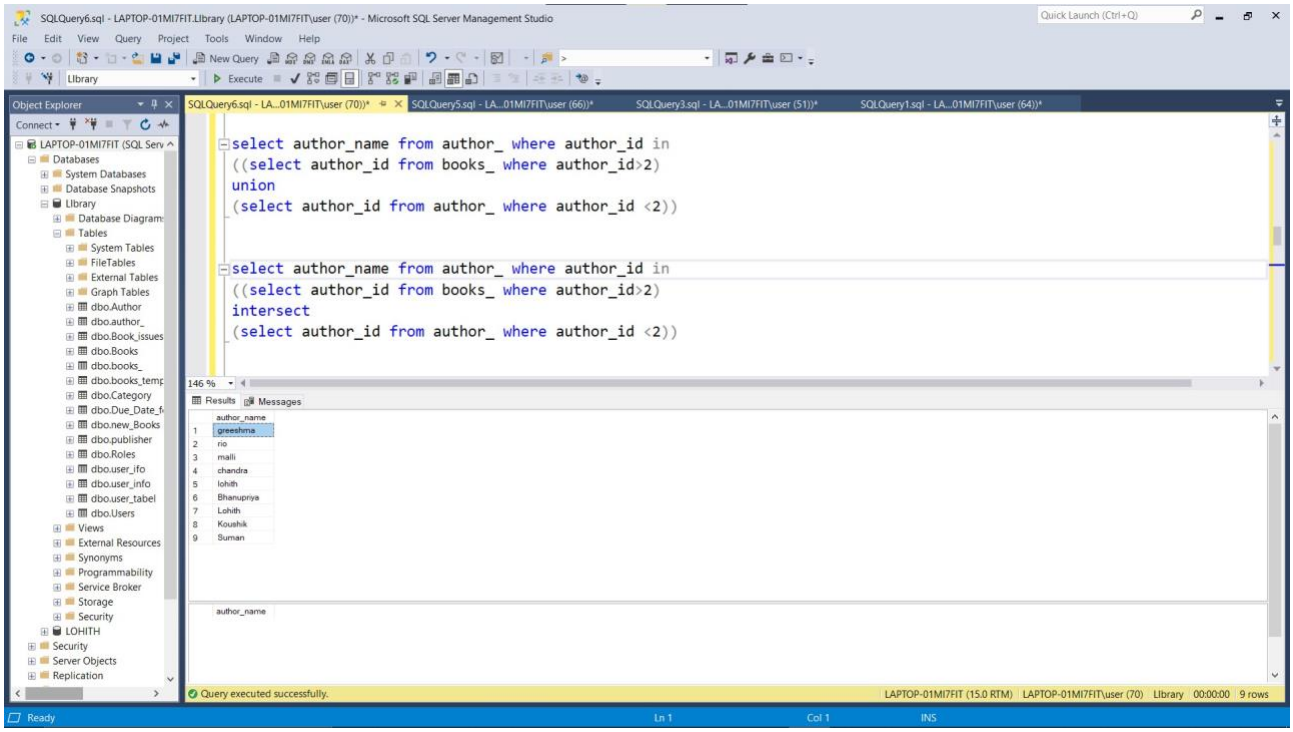

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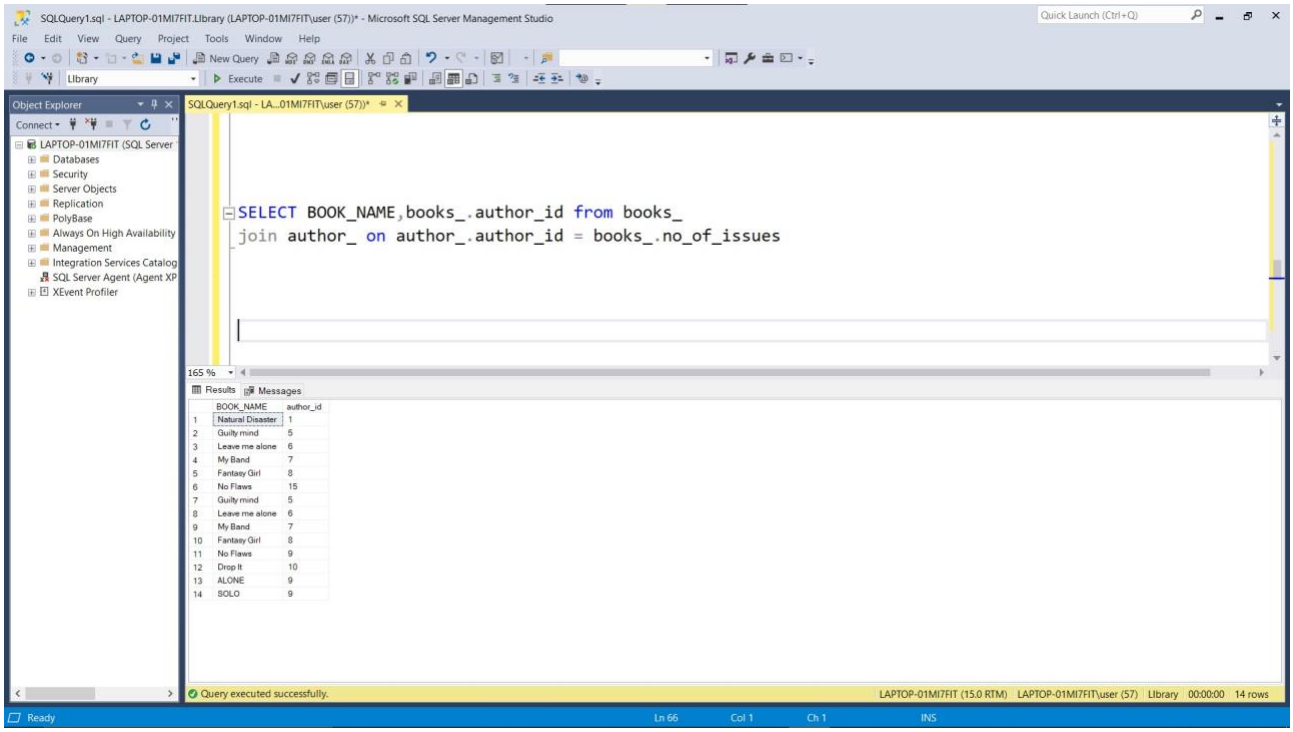
7) INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN- 3 queries for each instance

I) JOIN :-



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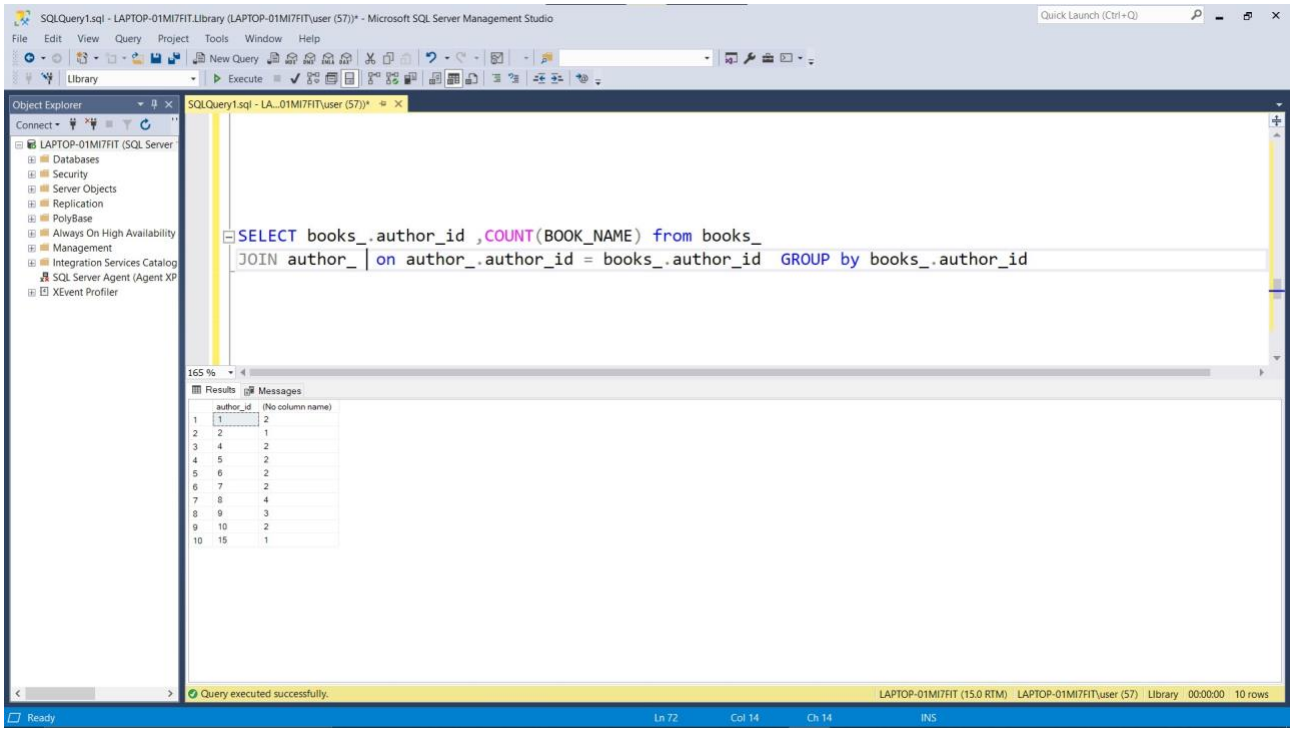

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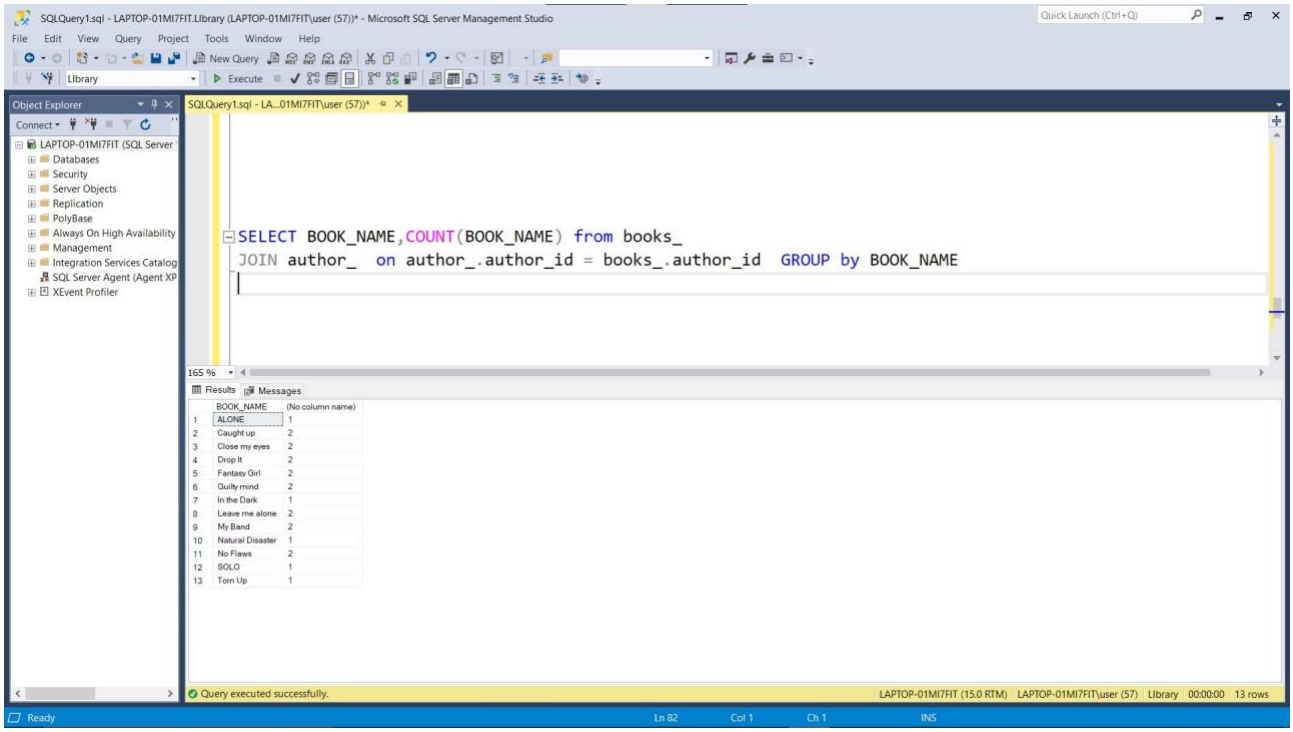

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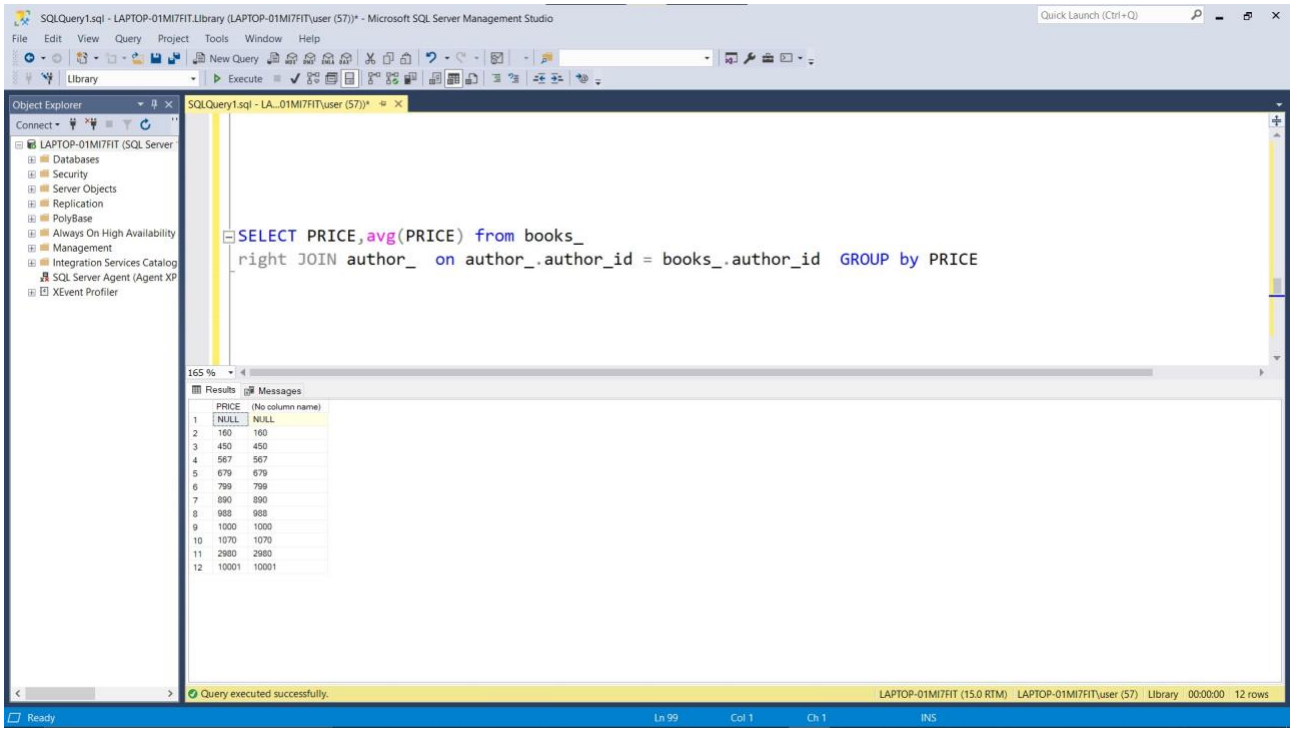
ii) RIGHT JOIN :-


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 PRICE,avg(PRICE) from books_
right JOIN author_ on author_.author_id = books_.author_id GROUP by PRICE
165 %
Results
Messages
PRICE (No column name)
1 NULL NULL
2 160 160
3 450 450
4 567 567
5 679 679
6 799 799
7 890 890
8 988 988
9 1000 1000
10 1070 1070
11 2980 2980
12 10001 10001
Query executed successfully.
LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (57) LIbrary 00:00:00 12 rows
Ready
Ln 99 Col 1 Ch 1 INS

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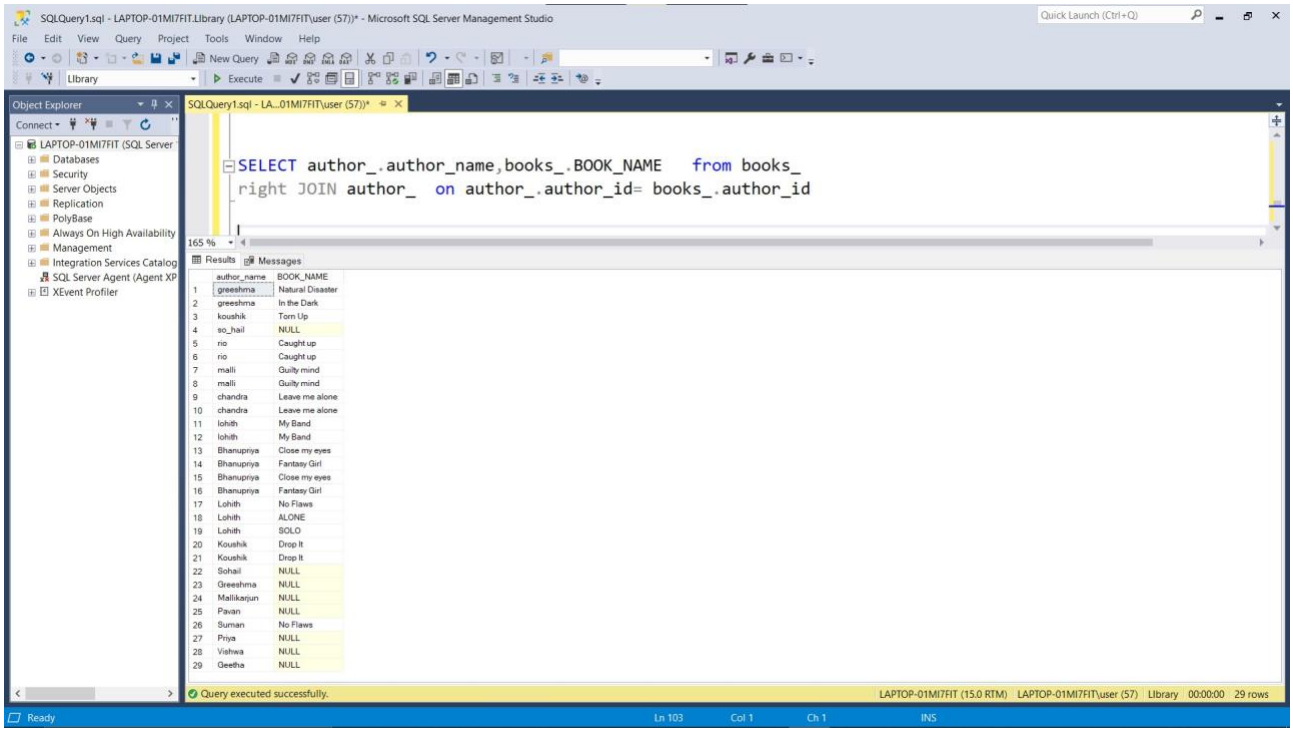
SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
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Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalog
SQL Server Agent (Agent XP
XEvent Profiler
SQLQuery1.sql - LA...01MI7FIT\user (57))*
SELECT author_.author_name,books_.BOOK_NAME from books_
right JOIN author_ on author_.author_id= books_.author_id
165 %
Results
Messages
author_name BOOK_NAME
1 greeshma Natural Disaster
2 greeshma In the Dark
3 koushik Torn Up
4 so_hail NULL
5 rio Caught up
6 rio Caught up
7 malli Guilty mind
8 malli Guilty mind
9 chandra Leave me alone
10 chandra Leave me alone
11 lohith My Band
12 lohith My Band
13 Bhanupriya Close my eyes
14 Bhanupriya Fantasy Girl
15 Bhanupriya Close my eyes
16 Bhanupriya Fantasy Girl
17 Lohith No Flaws
18 Lohith ALONE
19 Lohith SOLO
20 Koushik Drop It
21 Koushik Drop It
22 Sohail NULL
23 Greeshma NULL
24 Mallikarjun NULL
25 Pavan NULL
26 Suman No Flaws
27 Priya NULL
28 Vishwa NULL
29 Geetha NULL
Query executed successfully.
LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (57) LIbrary 00:00:00 29 rows
Ready
Ln 103 Col 1 Ch 1 INS

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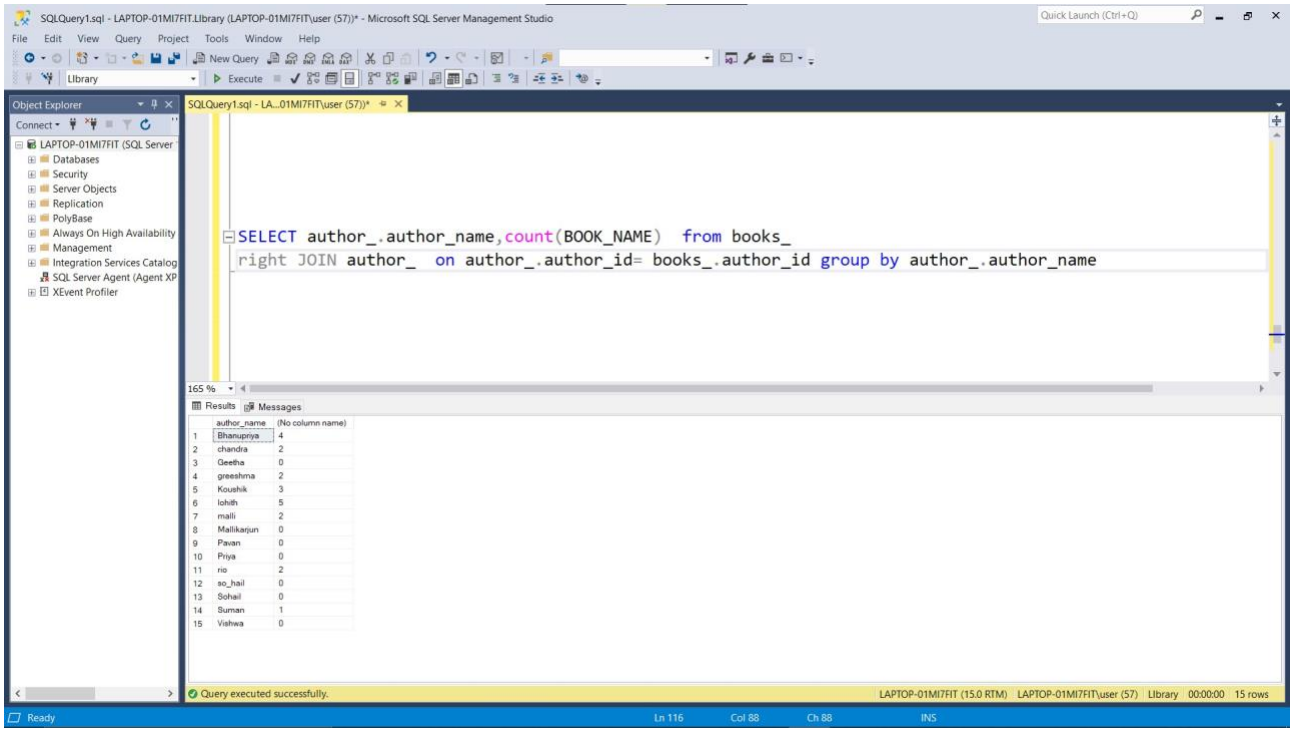
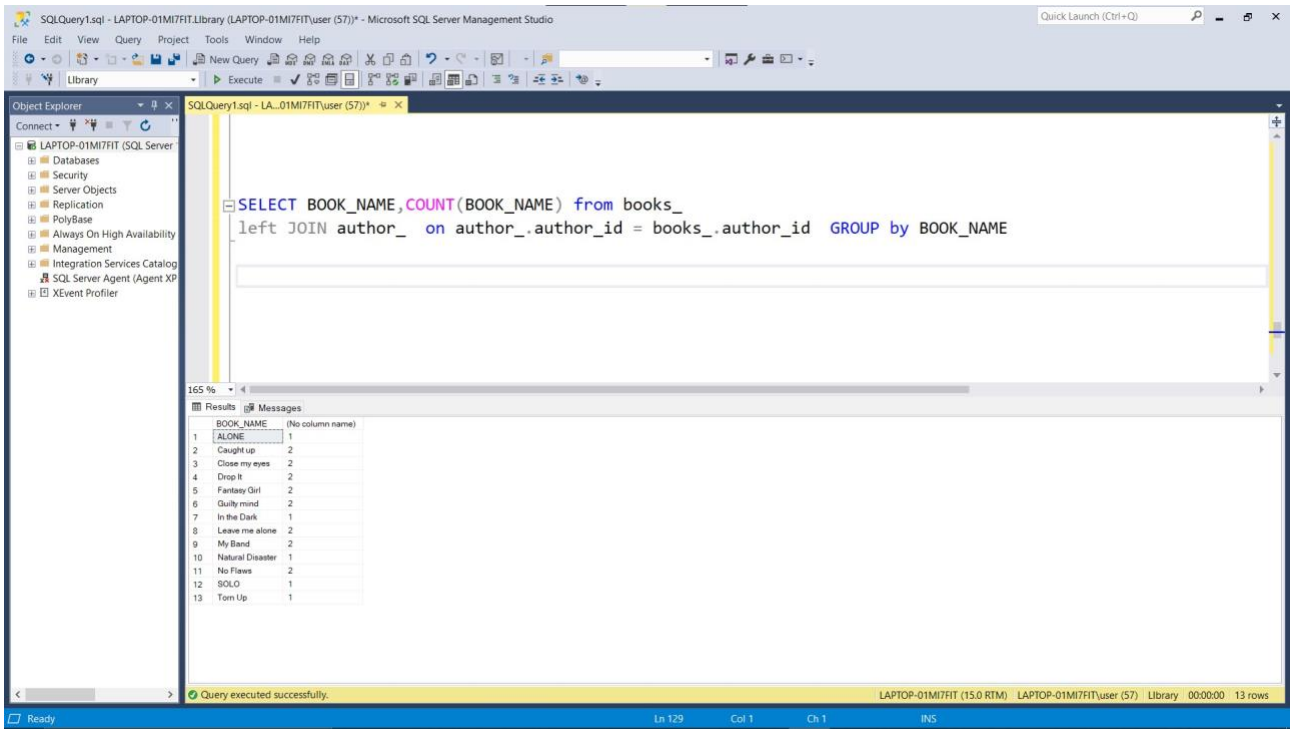


~ iii) LEFT JOIN :-



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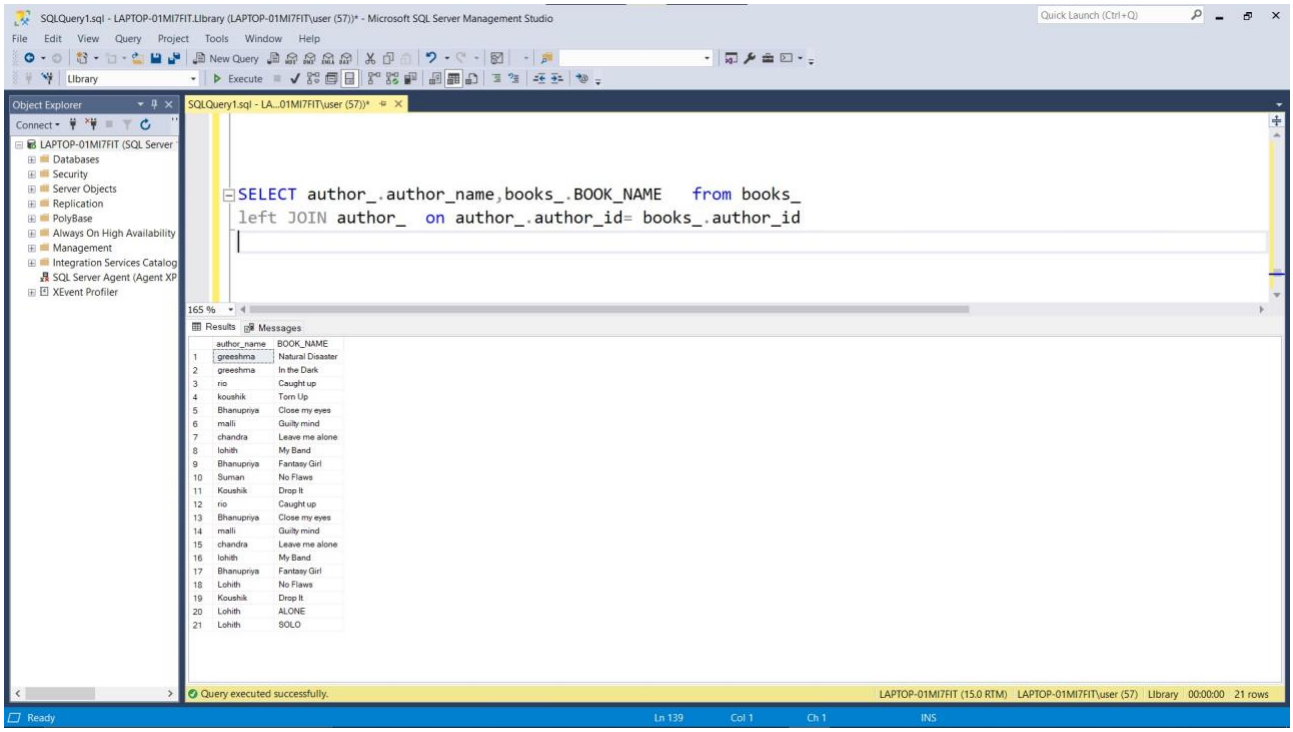
SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
Execute
LIbrary
Object Explorer
Connect
LAPTOP-01MI7FIT (SQL Server
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalog
SQL Server Agent (Agent XP
XEvent Profiler
SQLQuery1.sql - LA...01MI7FIT\user (57))*
SELECT author_.author_name,books_.BOOK_NAME from books_
left JOIN author_ on author_.author_id= books_.author_id
165 %
Results
Messages
author_name BOOK_NAME
1 greeshma Natural Disaster
2 greeshma In the Dark
3 rio Caught up
4 koushik Torn Up
5 Bhanupriya Close my eyes
6 malli Guilty mind
7 chandra Leave me alone
8 lohith My Band
9 Bhanupriya Fantasy Girl
10 Suman No Flaws
11 Koushik Drop It
12 rio Caught up
13 Bhanupriya Close my eyes
14 malli Guilty mind
15 chandra Leave me alone
16 lohith My Band
17 Bhanupriya Fantasy Girl
18 Lohith No Flaws
19 Koushik Drop It
20 Lohith ALONE
21 Lohith SOLO
Query executed successfully.
LAPTOP-01MI7FIT (15.0 RTM) LAPTOP-01MI7FIT\user (57) LIbrary 00:00:00 21 rows
Ready
Ln 139 Col 1 Ch 1 INS

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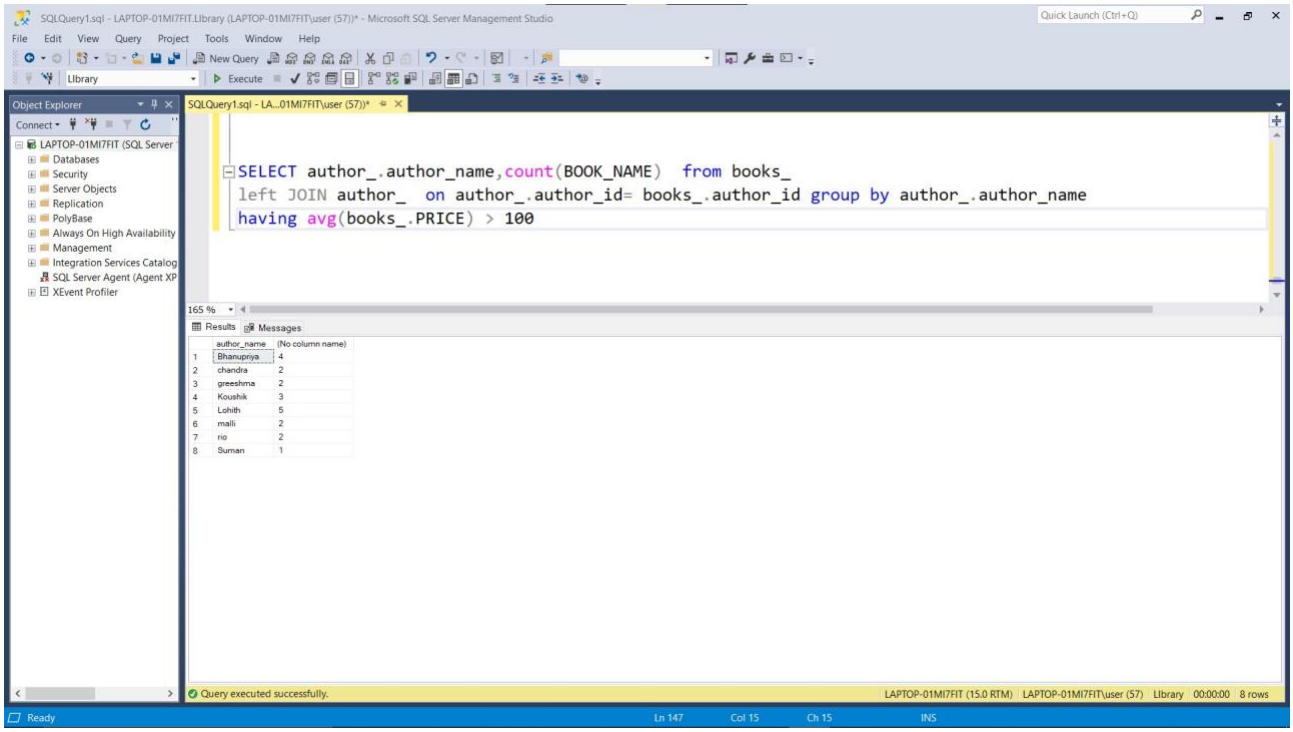
SQLQuery1.sql - LAPTOP-01MI7FIT.LIbrary (LAPTOP-01MI7FIT\user (57))* - Microsoft SQL Server Management Studio
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Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalog
SQL Server Agent (Agent XP
XEvent 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