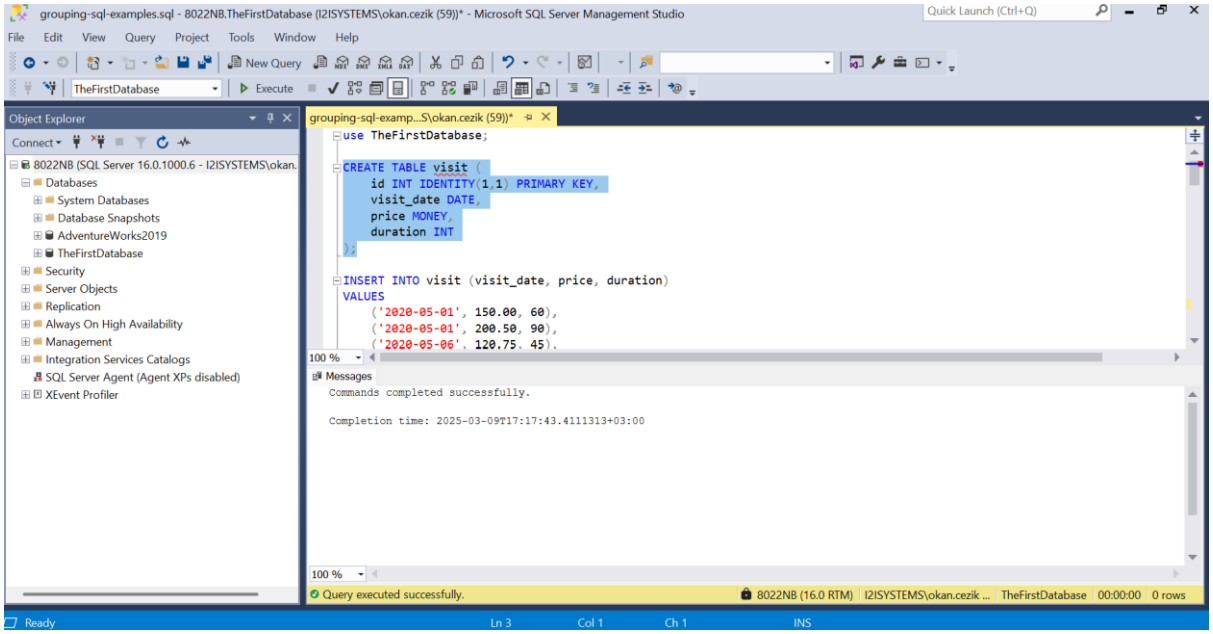
GROUPING EXAMPLES

STEP-1

Creating the visit Table



CREATE TABLE visit: This command creates a new table called visit.

id INT IDENTITY(1,1) PRIMARY KEY:

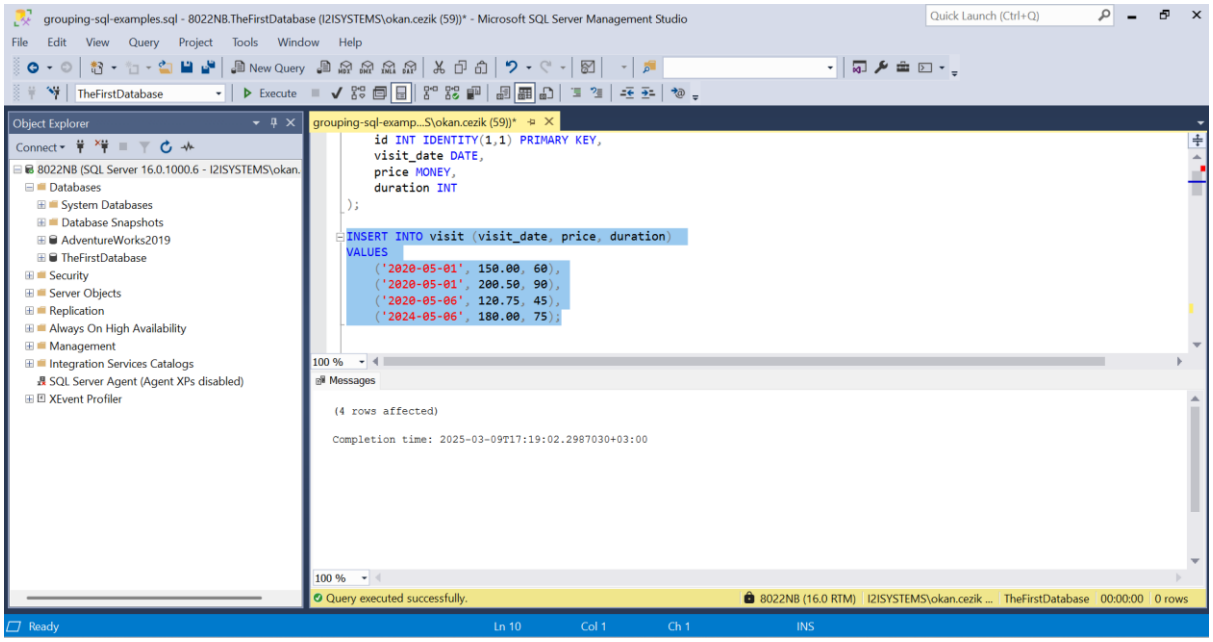
- id is an integer column that auto-increments with each new record, starting from 1. The IDENTITY(1,1) part specifies that the first value starts at 1 and increments by 1 for each new record.
- The PRIMARY KEY constraint ensures that the id column uniquely identifies each record in the table.

visit_date DATE: A column to store the date of the visit. The data type DATE is used to store dates in the format YYYY-MM-DD.

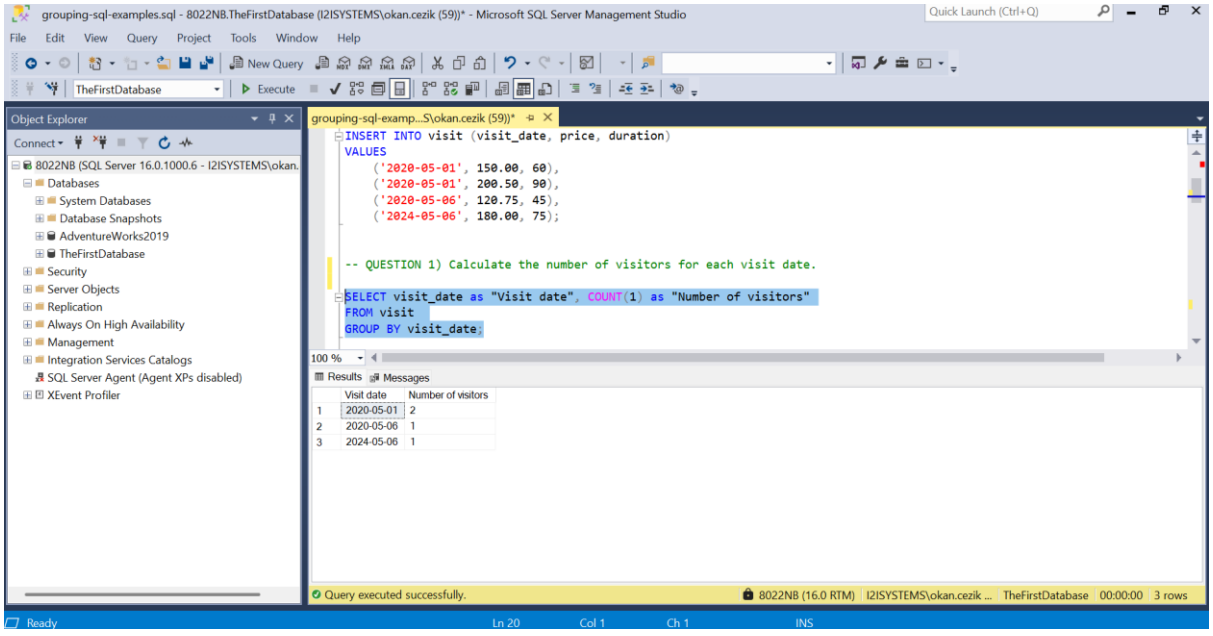
price MONEY: A column to store the price of the visit, using the MONEY data type to handle currency values.

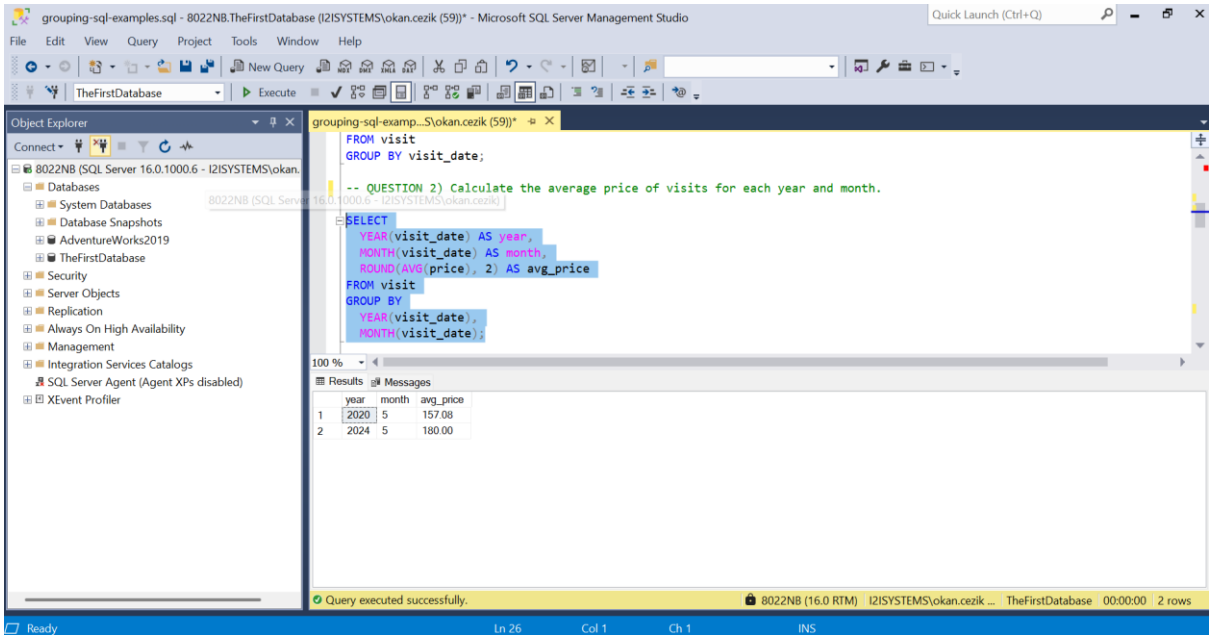
duration INT: A column to store the duration of the visit in minutes, using the INT (integer) data type.

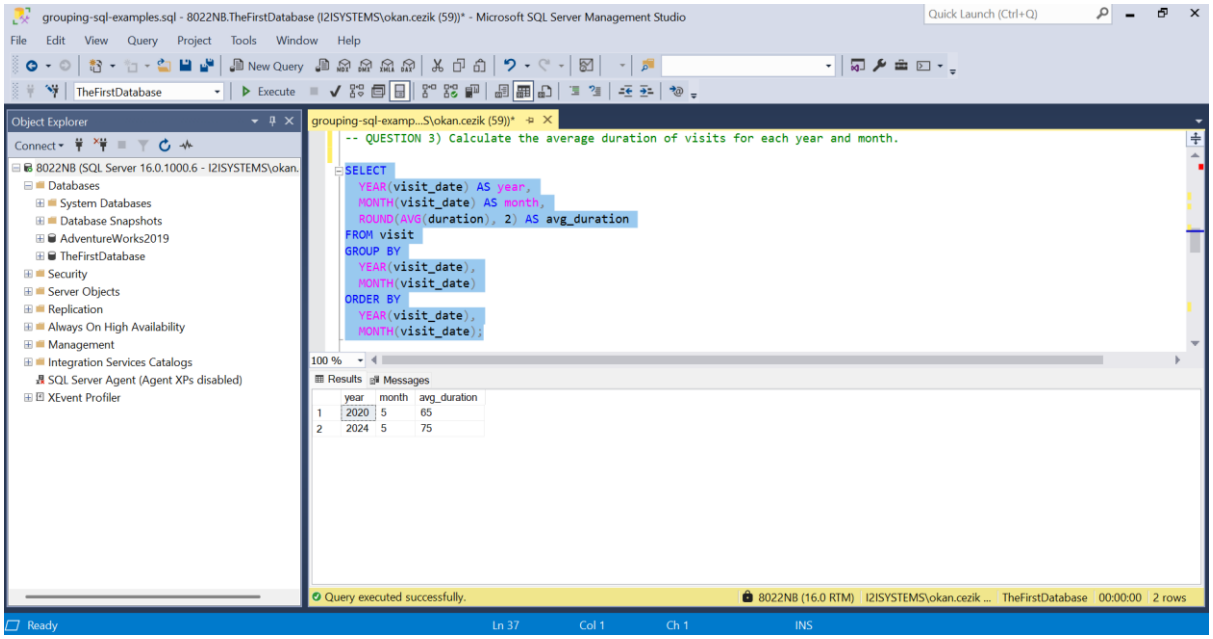
STEP-2



STEP-3 QUESTIONS




grouping-sql-examples.sql - 8022NB.TheFirstDatabase (I2ISYSTEMS\okan.cezik (59))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
Execute
TheFirstDatabase
Object Explorer
Connect
8022NB (SQL Server 16.0.1000.6 - I2ISYSTEMS\okan.
Databases
System Databases
Database Snapshots
AdventureWorks2019
TheFirstDatabase
Security
Server Objects
Replication
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
grouping-sql-examp...S\okan.cezik (59))*
FROM visit
GROUP BY visit_date;
-- QUESTION 2) Calculate the average price of visits for each year and month.
SELECT
YEAR(visit_date) AS year,
MONTH(visit_date) AS month,
ROUND(AVG(price), 2) AS avg_price
FROM visit
GROUP BY
YEAR(visit_date),
MONTH(visit_date);
100 %
Results
Messages
year month avg_price
1 2020 5 157.08
2 2024 5 180.00
Query executed successfully.
8022NB (16.0 RTM)
I2ISYSTEMS\okan.cezik ...
TheFirstDatabase
00:00:00
2 rows
Ready
Ln 26
Col 1
Ch 1
INS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Object Explorer
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Databases
System Databases
Database Snapshots
AdventureWorks2019
TheFirstDatabase
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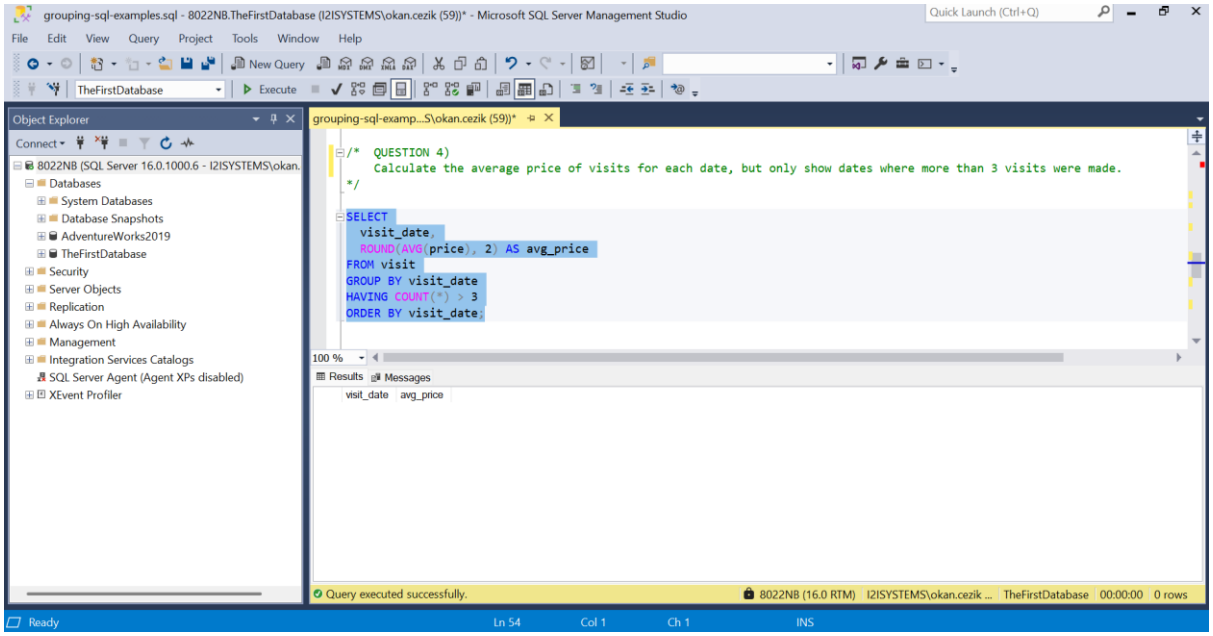
Replication
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
grouping-sql-examp...S\okan.cezik (59))*
-- QUESTION 3) Calculate the average duration of visits for each year and month.
SELECT
YEAR(visit_date) AS year,
MONTH(visit_date) AS month,
ROUND(AVG(duration), 2) AS avg_duration
FROM visit
GROUP BY
YEAR(visit_date),
MONTH(visit_date)
ORDER BY
YEAR(visit_date),
MONTH(visit_date);
100 %
Results
Messages
year month avg_duration
1 2020 5 65
2 2024 5 75
Query executed successfully.
8022NB (16.0 RTM)
I2ISYSTEMS\okan.cezik ...
TheFirstDatabase
00:00:00
2 rows
Ready
Ln 37
Col 1
Ch 1
INS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Database Snapshots
AdventureWorks2019
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Security
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Replication
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Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
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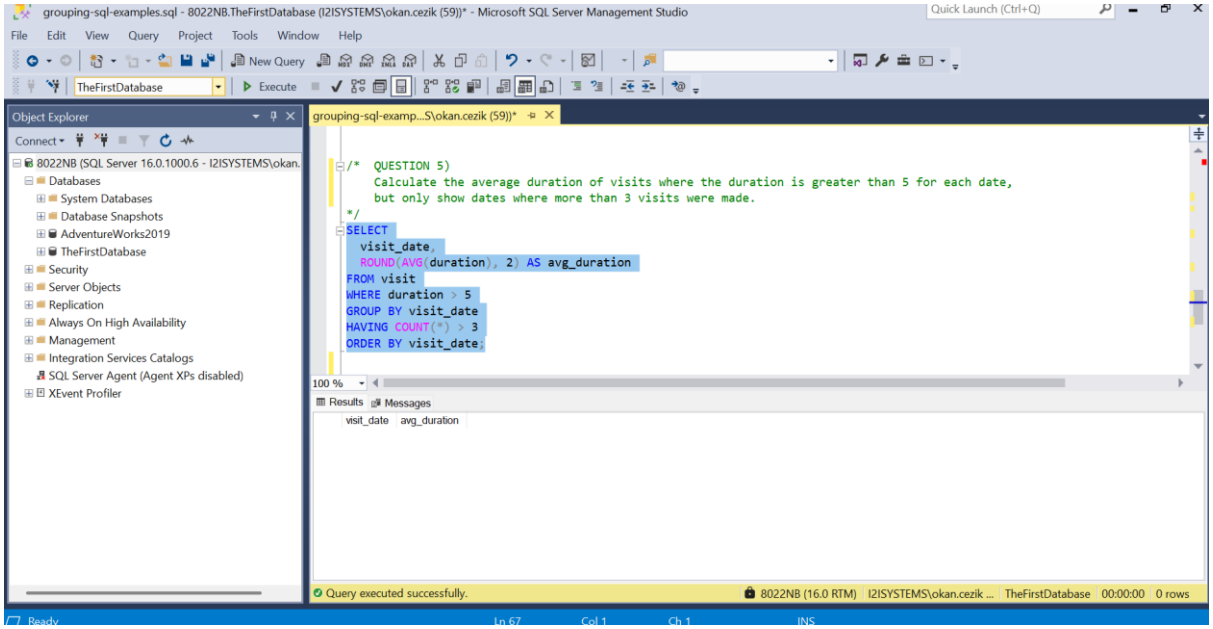
grouping-sql-examp...S\okan.cezik (59))*
/* QUESTION 4)
Calculate the average price of visits for each date, but only show dates where more than 3 visits were made.
*/
SELECT
visit_date,
ROUND(AVG(price), 2) AS avg_price
FROM visit
GROUP BY visit_date
HAVING COUNT(*) > 3
ORDER BY visit_date;
100 %
Results
Messages
visit_date
avg_price
Query executed successfully.
8022NB (16.0 RTM)
I2ISYSTEMS\okan.cezik ...
TheFirstDatabase
00:00:00
0 rows
Ready
Ln 54
Col 1
Ch 1
INS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System Databases
Database Snapshots
AdventureWorks2019
TheFirstDatabase
Security
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Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
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/* QUESTION 5)
Calculate the average duration of visits where the duration is greater than 5 for each date,
but only show dates where more than 3 visits were made.
*/
SELECT
visit_date,
ROUND(AVG(duration), 2) AS avg_duration
FROM visit
WHERE duration > 5
GROUP BY visit_date
HAVING COUNT(*) > 3
ORDER BY visit_date;
100 %
Results
Messages
visit_date
avg_duration
Query executed successfully.
8022NB (16.0 RTM)
I2ISYSTEMS\okan.cezik ...
TheFirstDatabase
00:00:00
0 rows
Ready
Ln 67
Col 1
Ch 1
INS