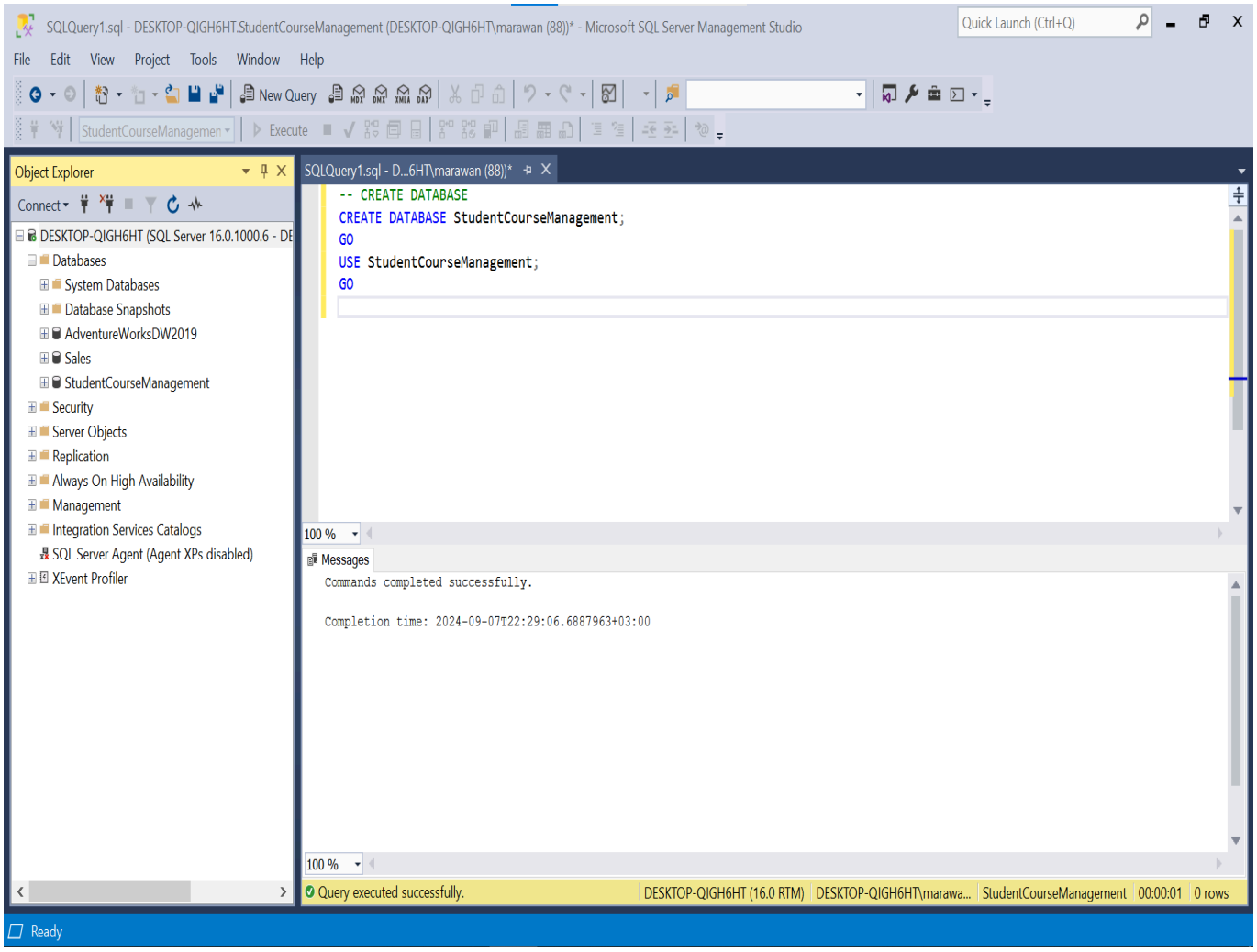
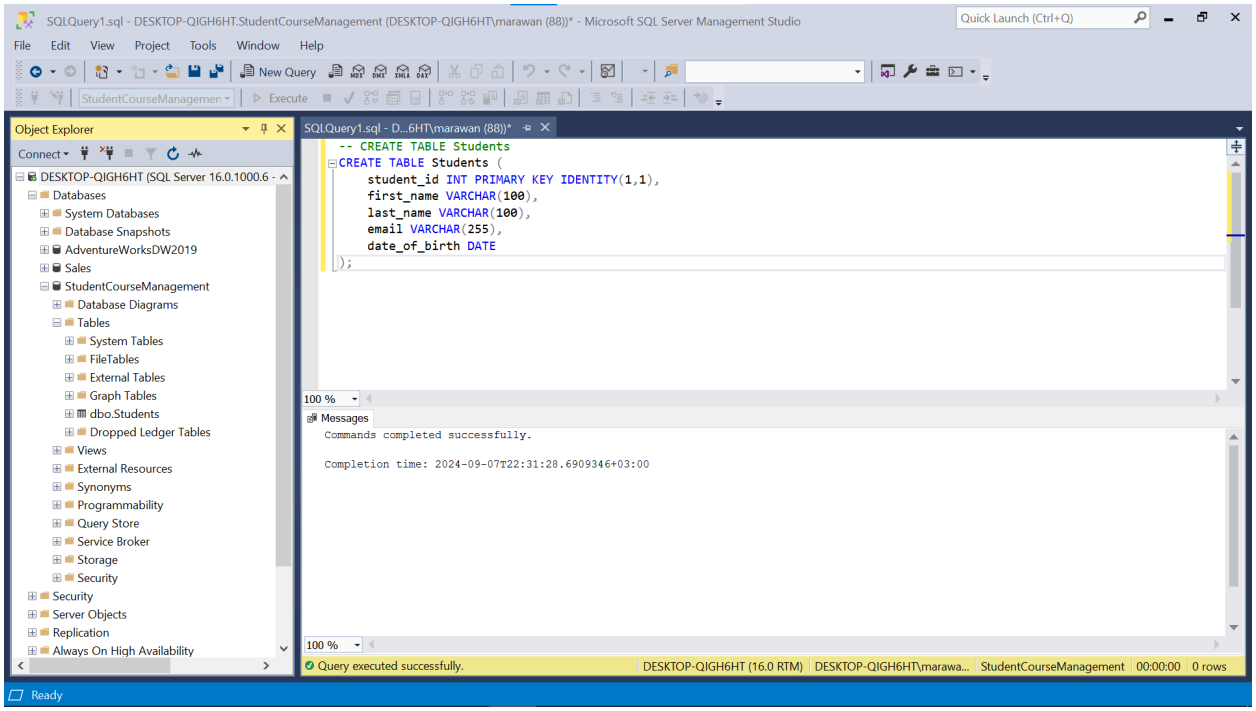
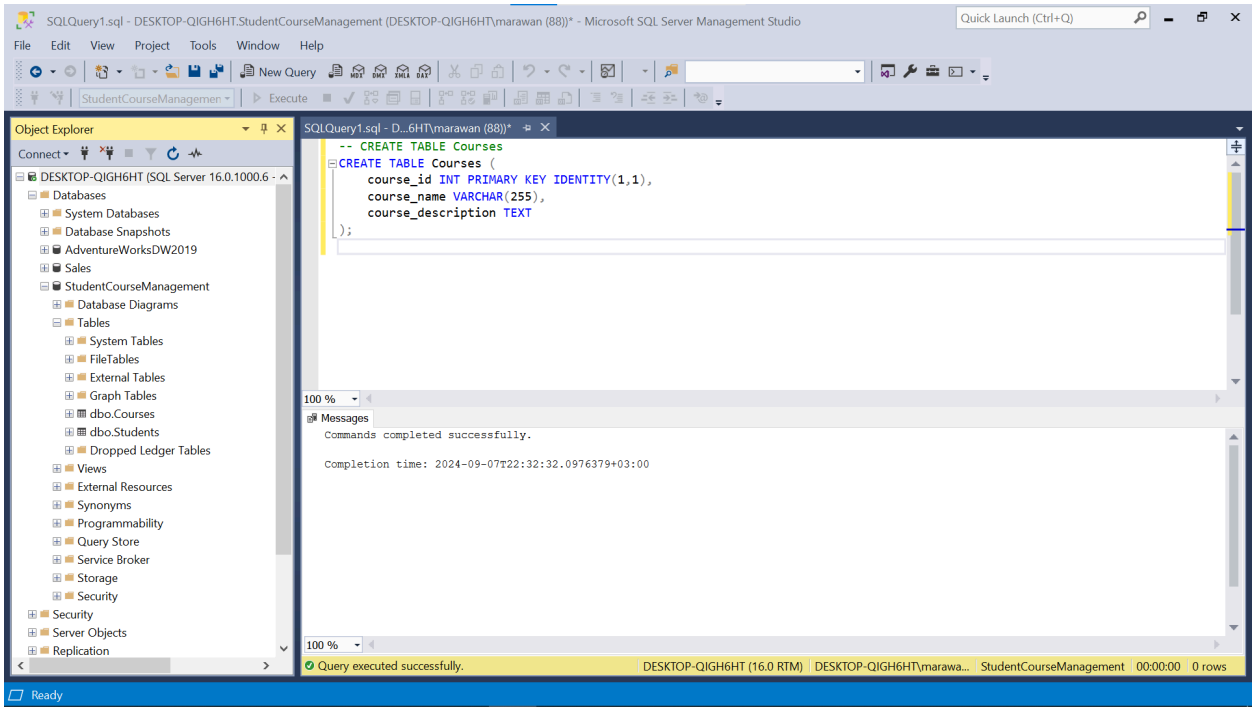
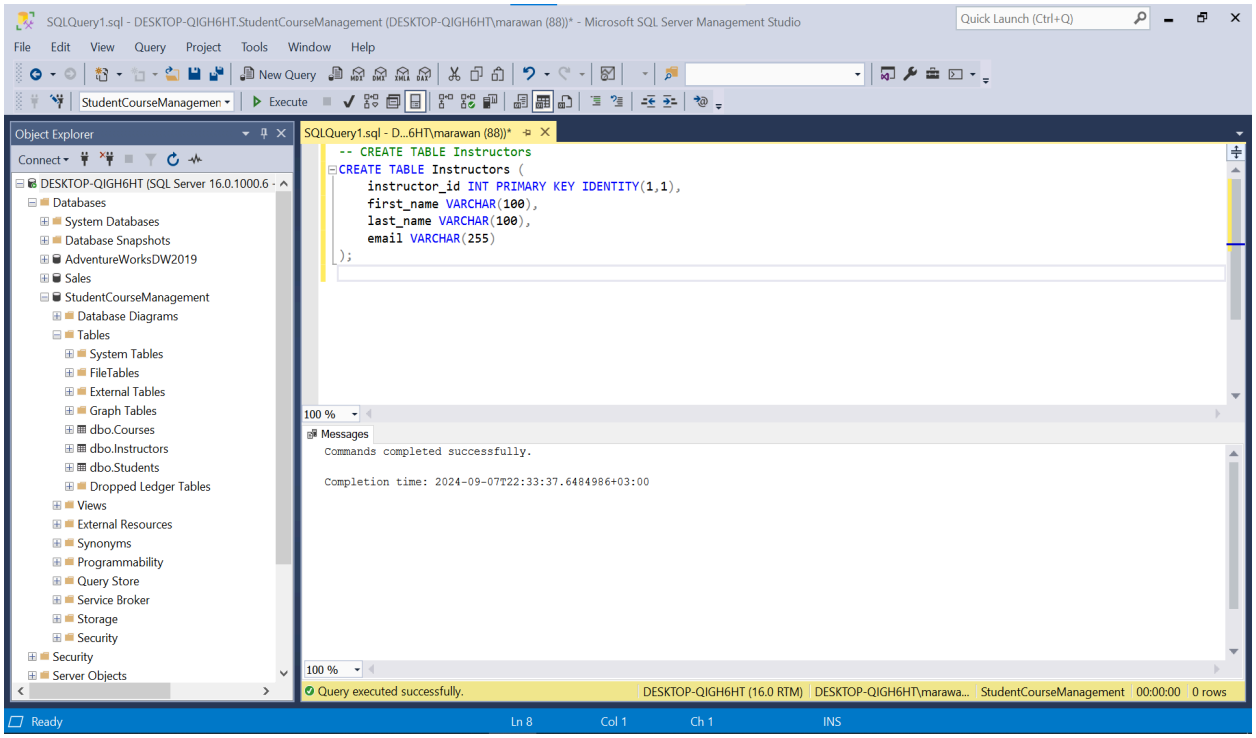
Create Database StudentCourseManagement



Create Tables (Students,Courses,Instructors,Enrollments ,and CourseAssignments)






SQLQuery1.sql - DESKTOP-QIGH6HT.StudentCourseManagement (DESKTOP-QIGH6HT\marawan (88))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
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New Query
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Object Explorer
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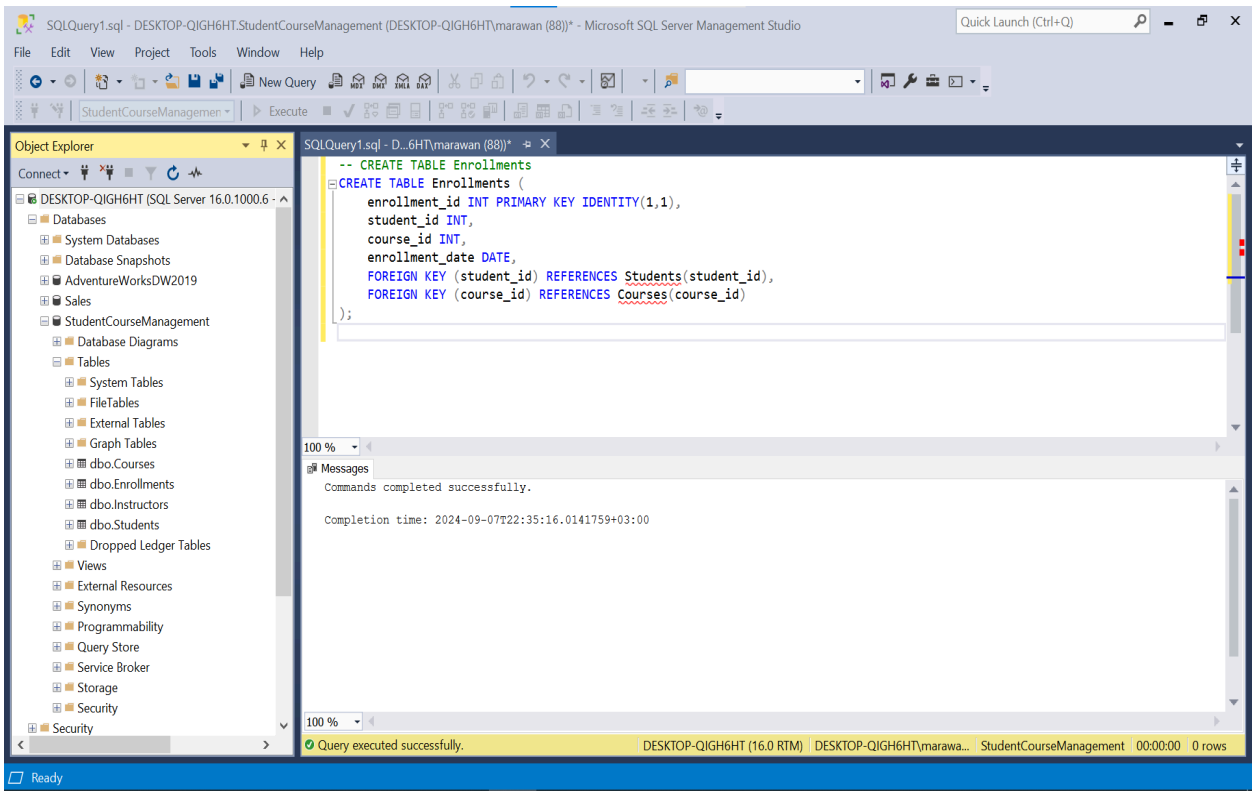
SQLQuery1.sql - D...6HT\marawan (88))*
-- CREATE TABLE Instructors
CREATE TABLE Instructors (
instructor_id INT PRIMARY KEY IDENTITY(1,1),
first_name VARCHAR(100),
last_name VARCHAR(100),
email VARCHAR(255)
);
100 %
Messages
Commands completed successfully.
Completion time: 2024-09-07T22:33:37.6484986+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
Ln 8
Col 1
Ch 1
INS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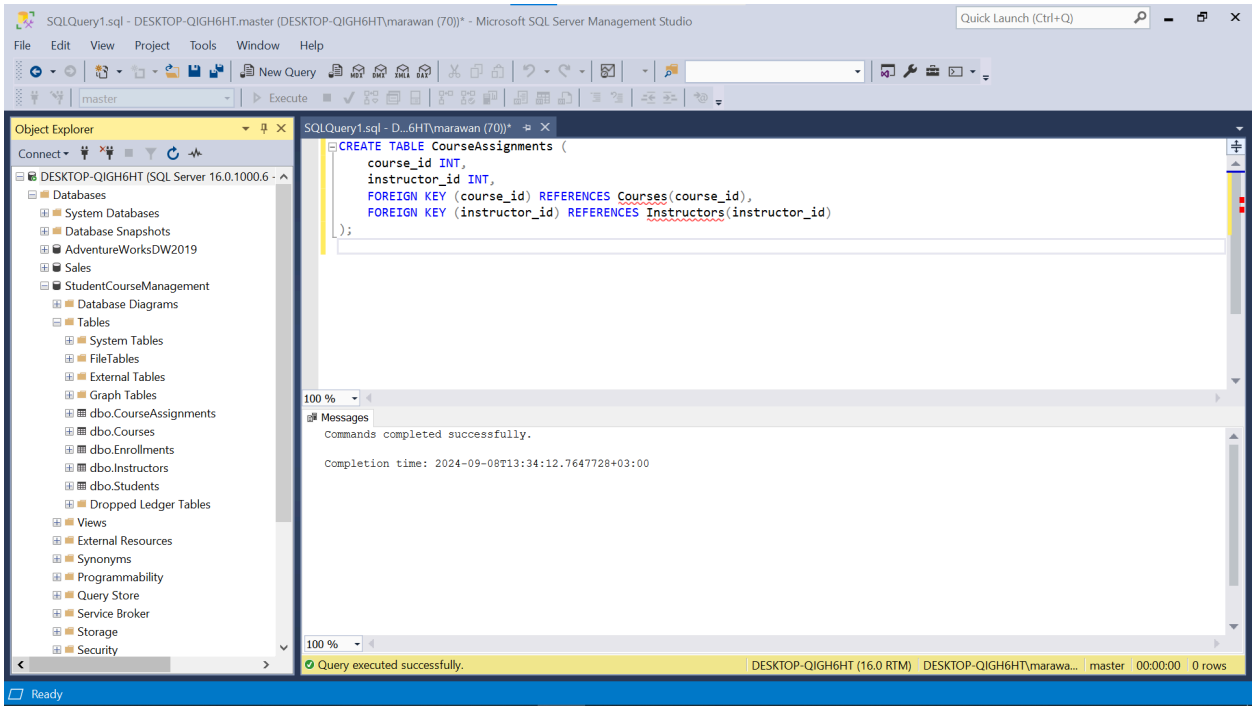
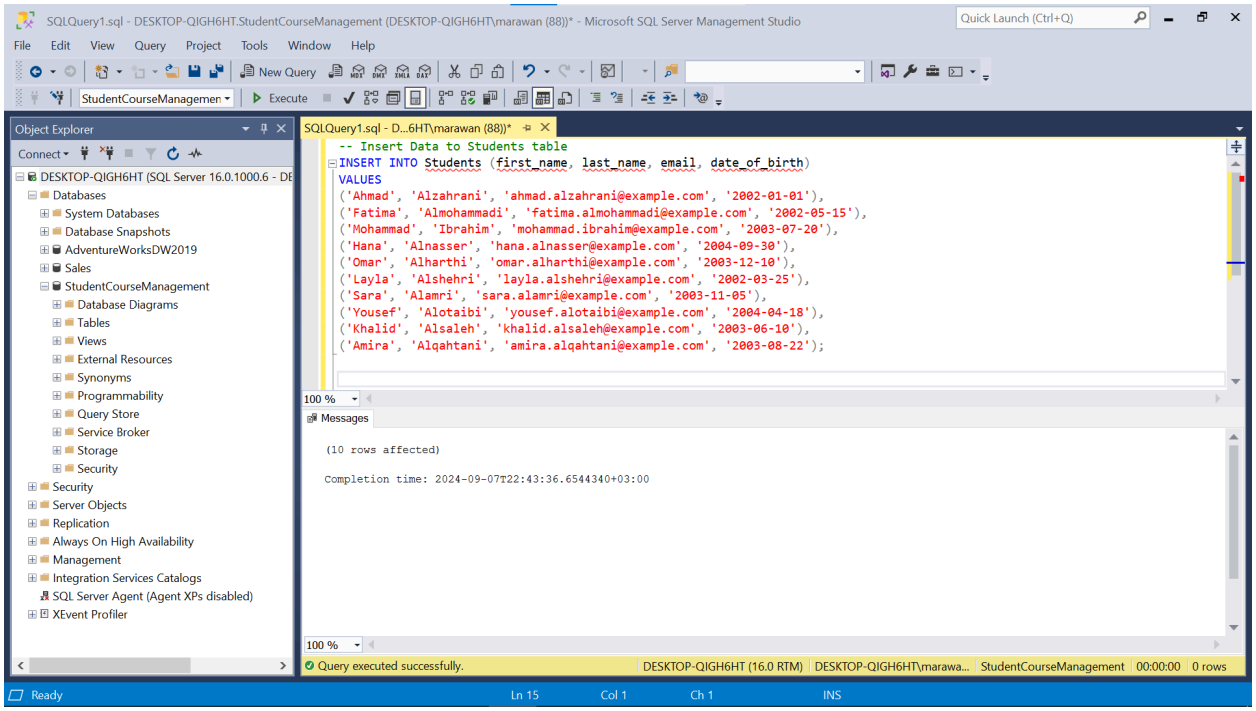
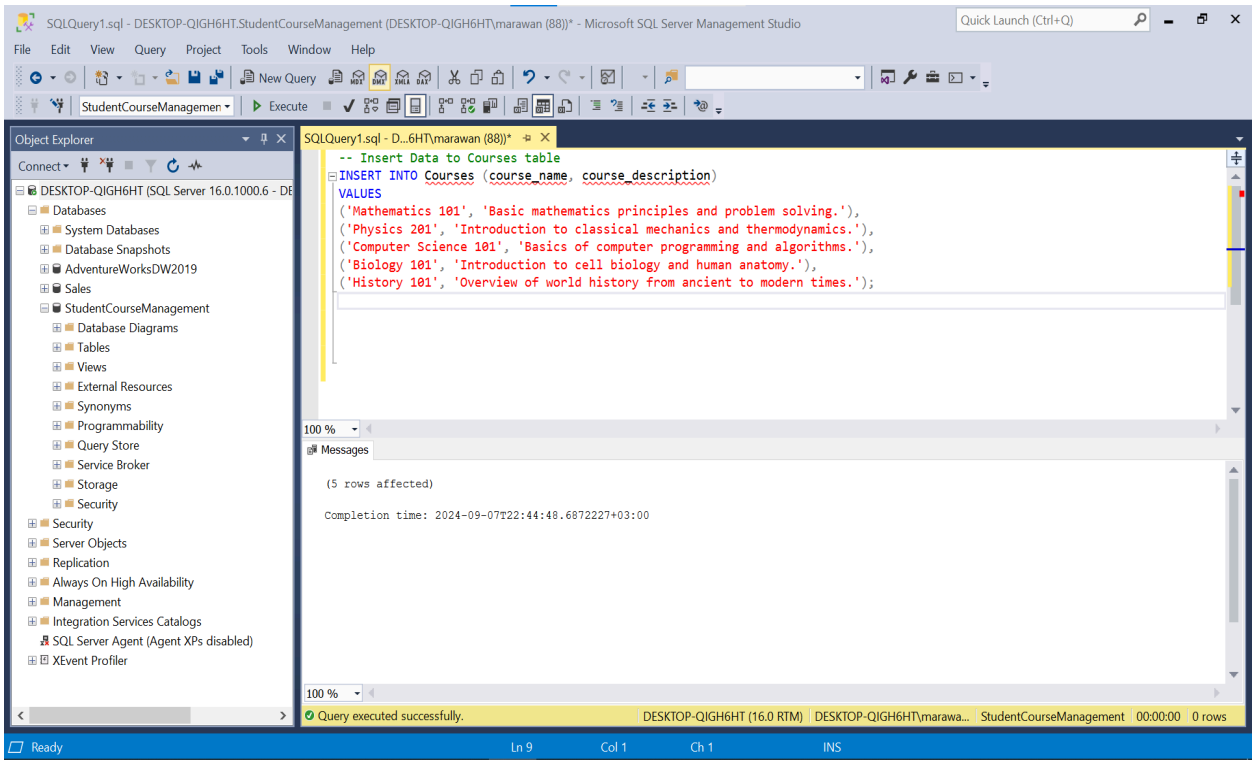
Security
Security
SQLQuery1.sql - D...6HT\marawan (88))*
-- CREATE TABLE Enrollments
CREATE TABLE Enrollments (
enrollment_id INT PRIMARY KEY IDENTITY(1,1),
student_id INT,
course_id INT,
enrollment_date DATE,
FOREIGN KEY (student_id) REFERENCES Students(student_id),
FOREIGN KEY (course_id) REFERENCES Courses(course_id)
);
100 %
Messages
Commands completed successfully.
Completion time: 2024-09-07T22:35:16.0141759+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready



Insert Data to tables

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XEvent Profiler
SQLQuery1.sql - D...6HT\marawan (88))*
-- Insert Data to Courses table
INSERT INTO Courses (course_name, course_description)
VALUES
('Mathematics 101', 'Basic mathematics principles and problem solving.'),
('Physics 201', 'Introduction to classical mechanics and thermodynamics.'),
('Computer Science 101', 'Basics of computer programming and algorithms.'),
('Biology 101', 'Introduction to cell biology and human anatomy.'),
('History 101', 'Overview of world history from ancient to modern times.');
100 %
Messages
(5 rows affected)
Completion time: 2024-09-07T22:44:48.6872227+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
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Col 1
Ch 1
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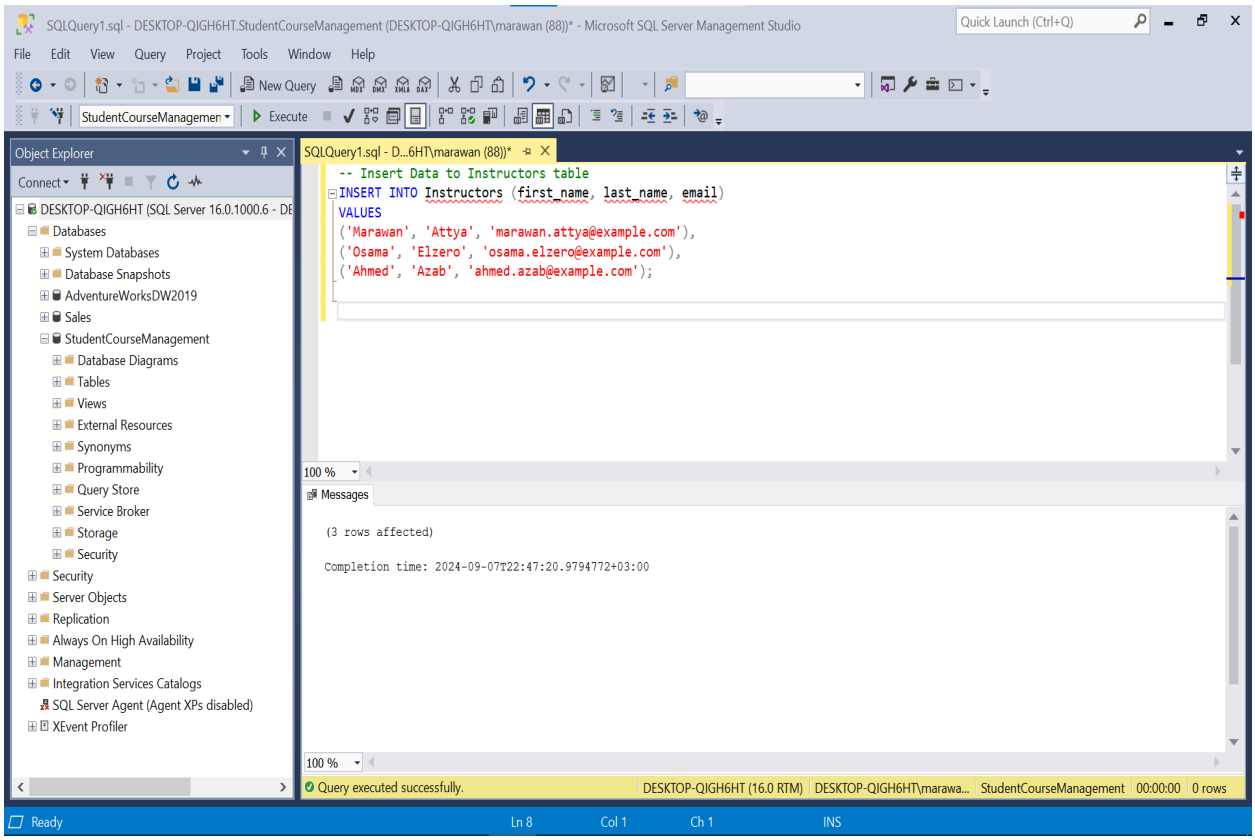
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Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
SQLQuery1.sql - D...6HT\marawan (88))*
-- Insert Data to Instructors table
INSERT INTO Instructors (first_name, last_name, email)
VALUES
('Marawan', 'Attya', 'marawan.attya@example.com'),
('Osama', 'Elzero', 'osama.elzero@example.com'),
('Ahmed', 'Azab', 'ahmed.azab@example.com');
100 %
Messages
(3 rows affected)
Completion time: 2024-09-07T22:47:20.9794772+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
Ln 8
Col 1
Ch 1
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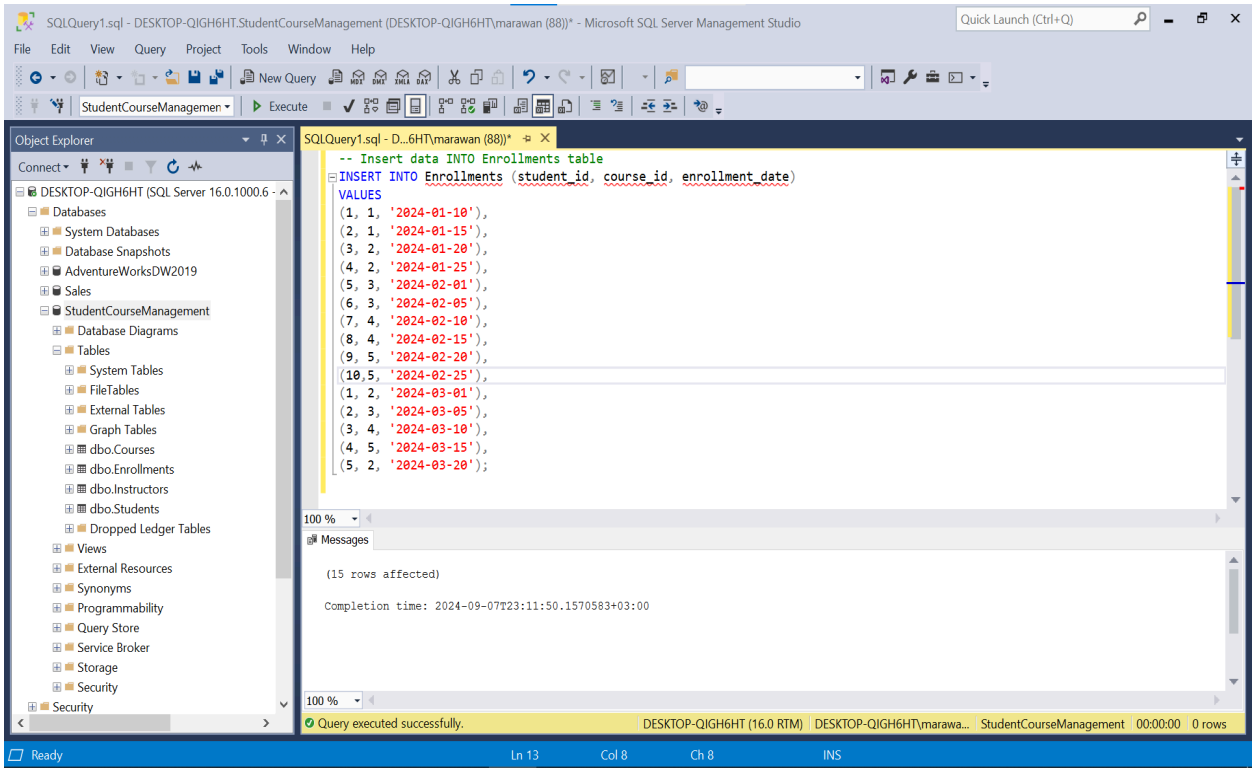
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SQLQuery1.sql - D...6HT\marawan (88))*
-- Insert data INTO Enrollments table
INSERT INTO Enrollments (student_id, course_id, enrollment_date)
VALUES
(1, 1, '2024-01-10'),
(2, 1, '2024-01-15'),
(3, 2, '2024-01-20'),
(4, 2, '2024-01-25'),
(5, 3, '2024-02-01'),
(6, 3, '2024-02-05'),
(7, 4, '2024-02-10'),
(8, 4, '2024-02-15'),
(9, 5, '2024-02-20'),
(10,5, '2024-02-25'),
(1, 2, '2024-03-01'),
(2, 3, '2024-03-05'),
(3, 4, '2024-03-10'),
(4, 5, '2024-03-15'),
(5, 2, '2024-03-20');
100 %
Messages
(15 rows affected)
Completion time: 2024-09-07T23:11:50.1570583+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
Ln 13
Col 8
Ch 8
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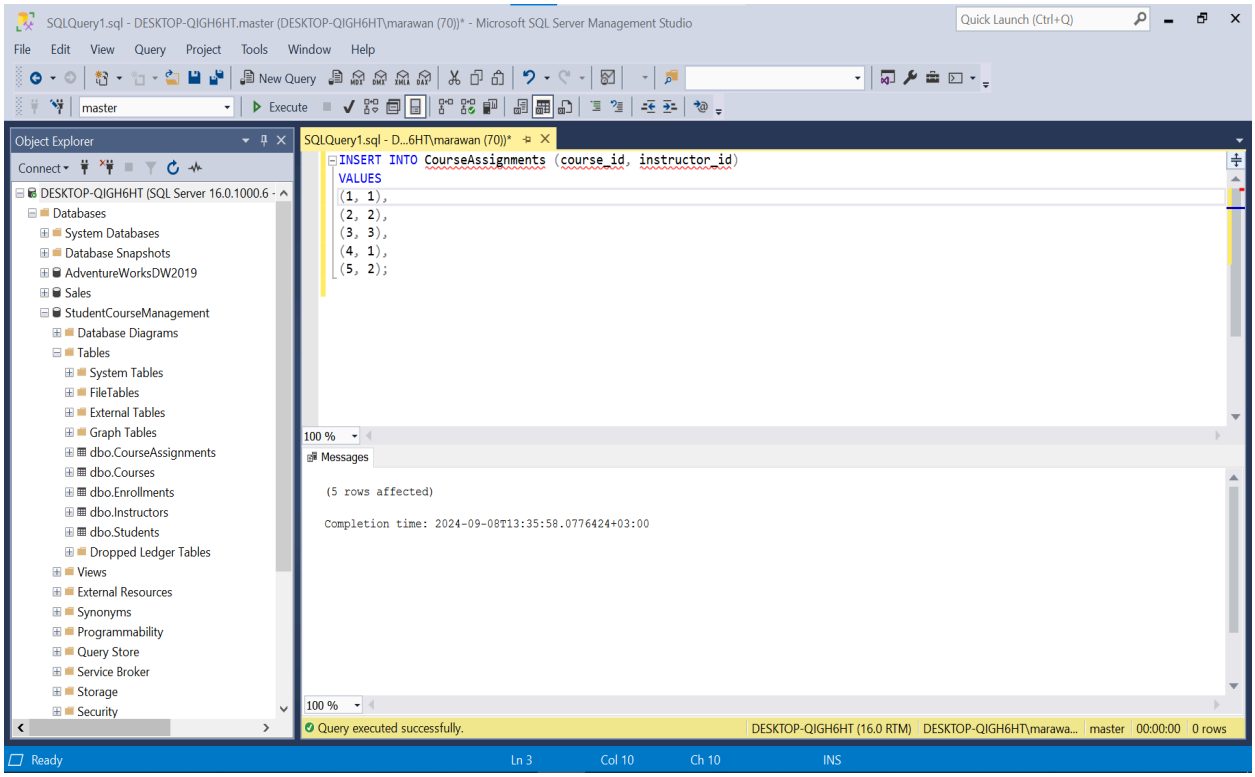
SQLQuery1.sql - DESKTOP-QIGH6HT.master (DESKTOP-QIGH6HT\marawan (70))* - Microsoft SQL Server Management Studio
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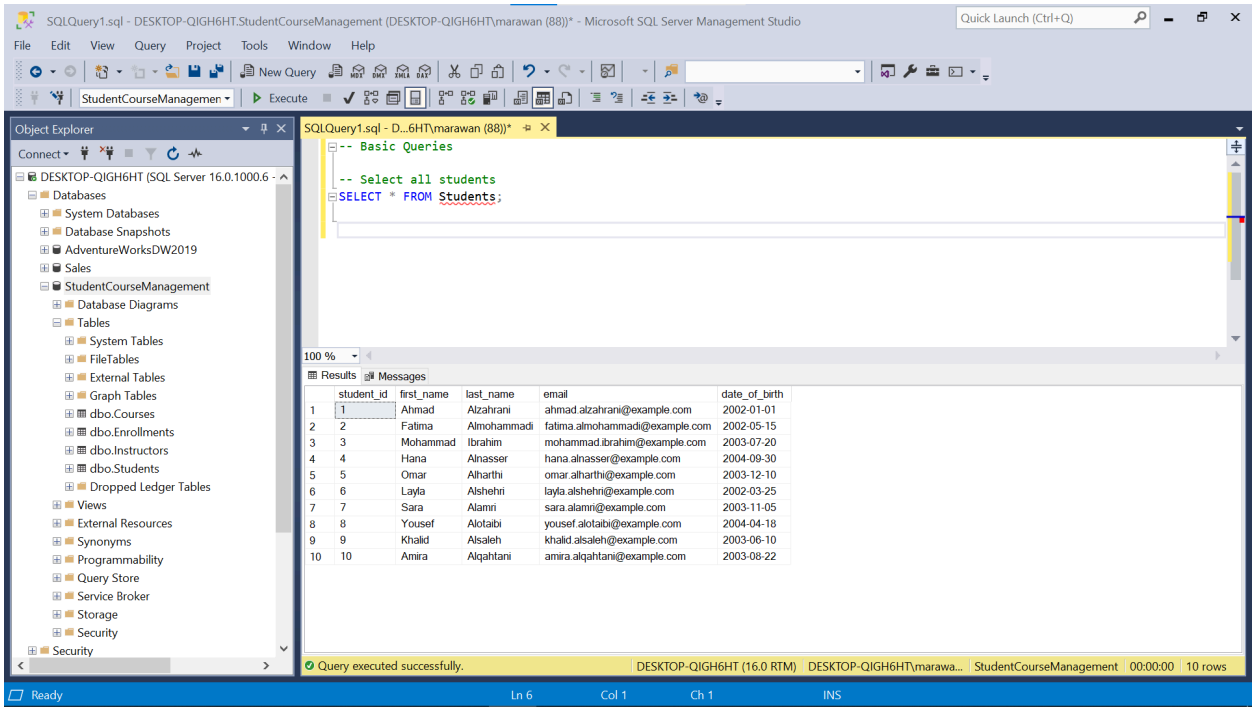
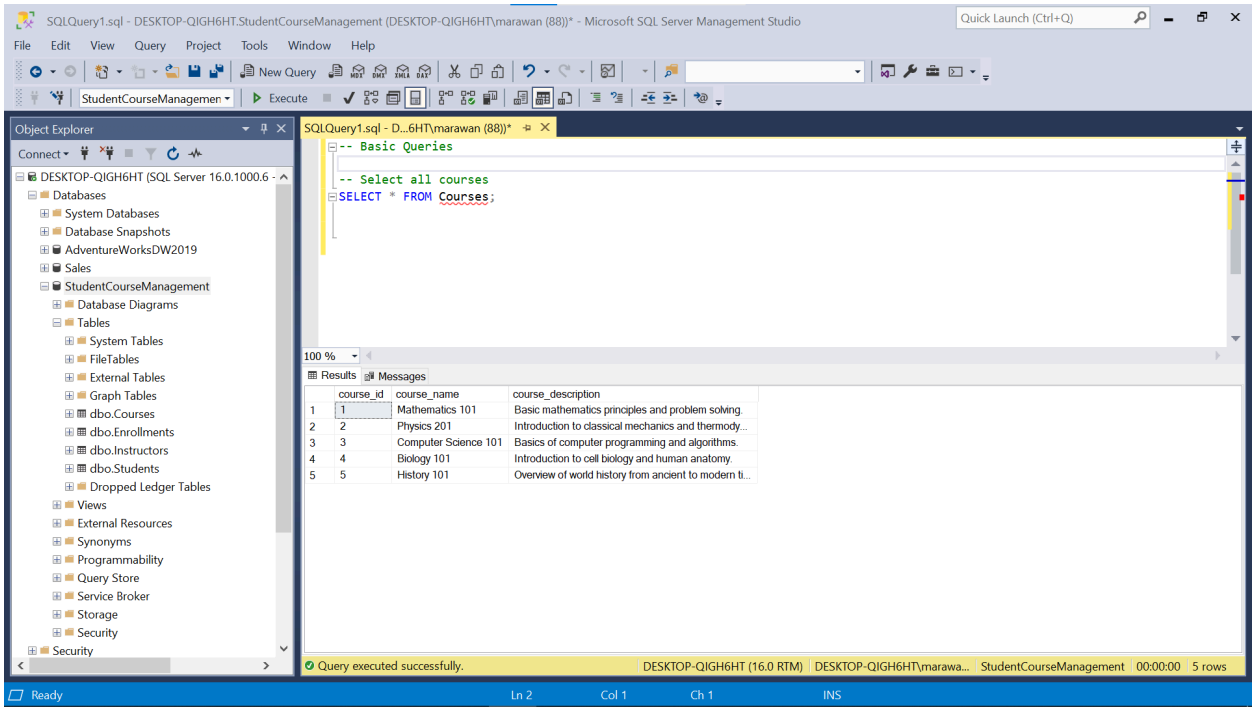
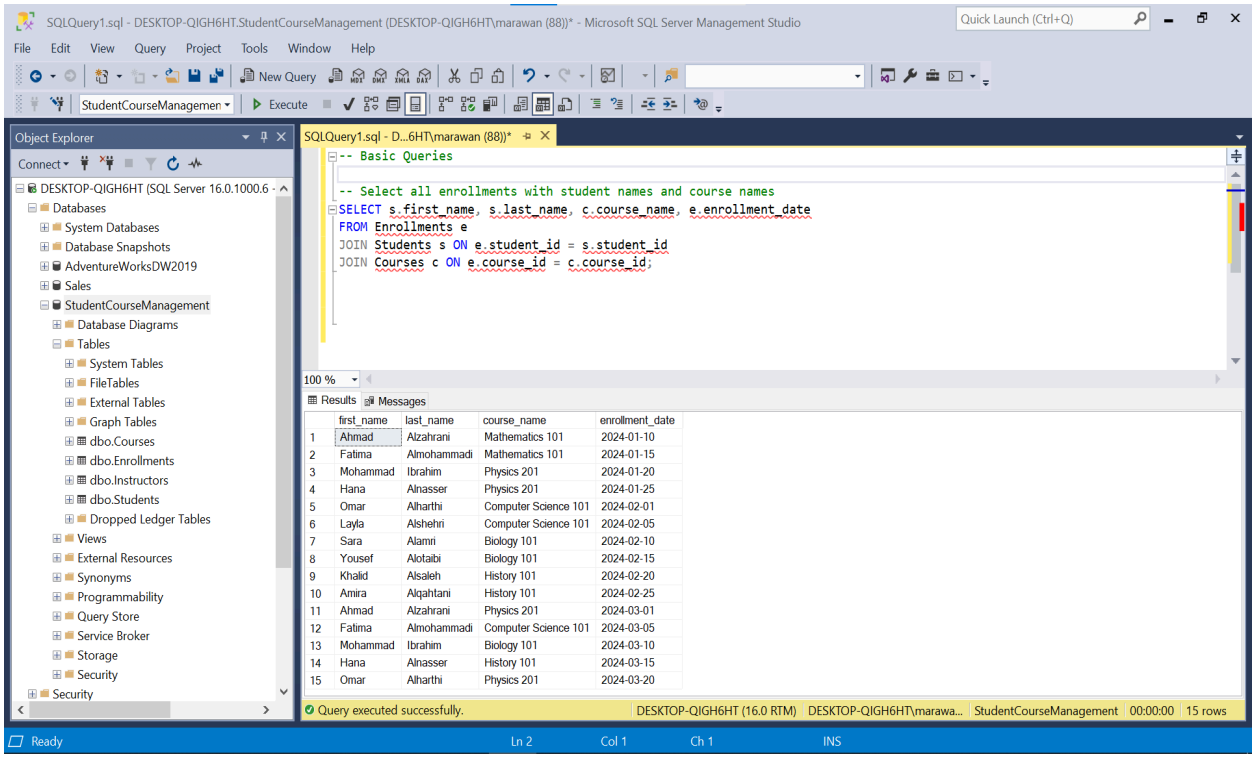
SQLQuery1.sql - D...6HT\marawan (70))*
INSERT INTO CourseAssignments (course_id, instructor_id)
VALUES
(1, 1),
(2, 2),
(3, 3),
(4, 1),
(5, 2);
100 %
Messages
(5 rows affected)
Completion time: 2024-09-08T13:35:58.0776424+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
master
00:00:00
0 rows
Ready
Ln 3
Col 10
Ch 10
INS

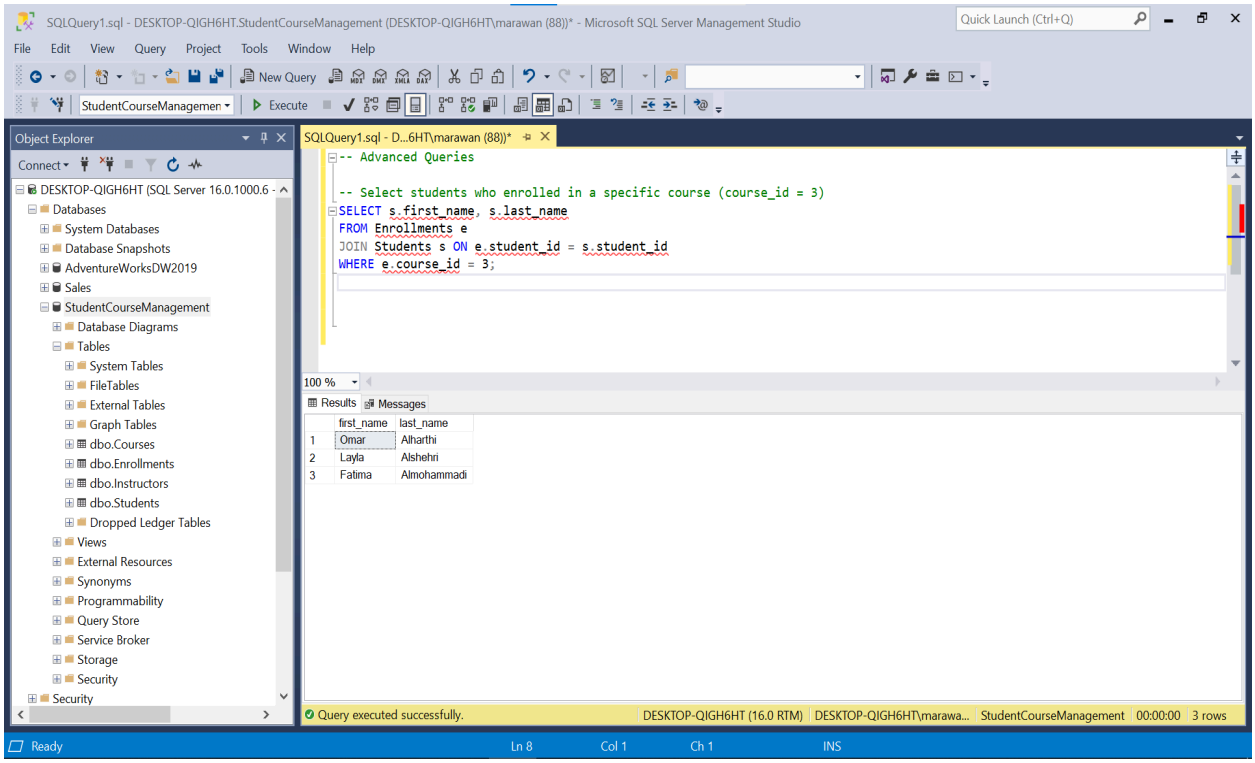
Basic Queries

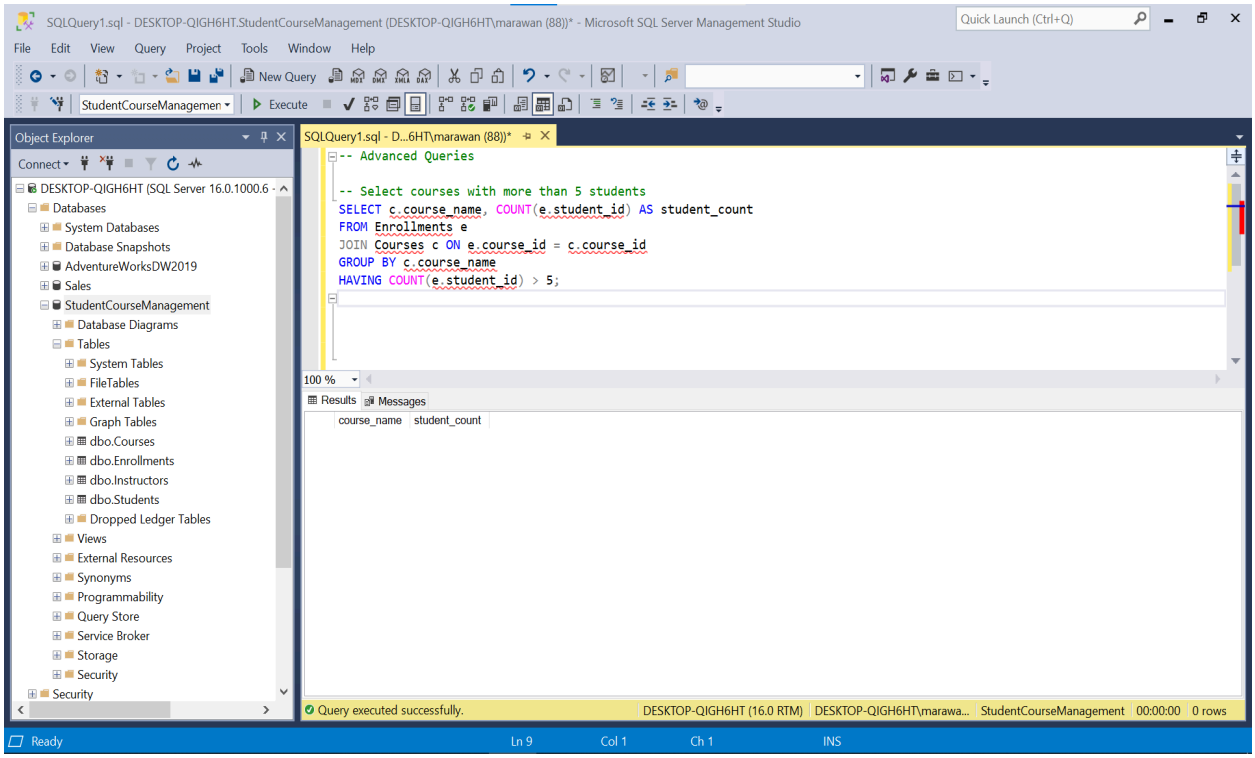






Advanced Queries




SQLQuery1.sql - DESKTOP-QIGH6HT.StudentCourseManagement (DESKTOP-QIGH6HT\marawan (88))* - Microsoft SQL Server Management Studio
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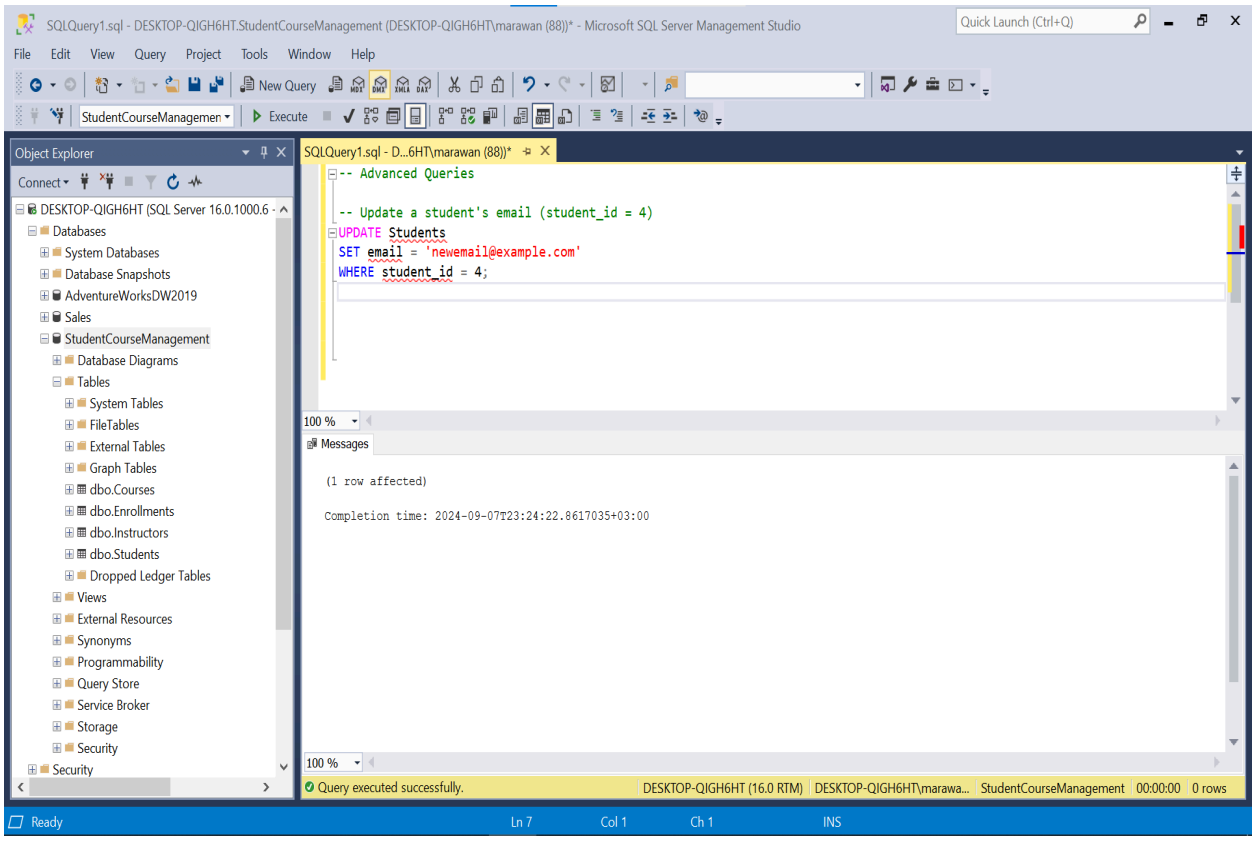
SQLQuery1.sql - D...6HT\marawan (88))*
-- Advanced Queries
-- Select courses with more than 5 students
SELECT c.course_name, COUNT(e.student_id) AS student_count
FROM Enrollments e
JOIN Courses c ON e.course_id = c.course_id
GROUP BY c.course_name
HAVING COUNT(e.student_id) > 5;
100 %
Results
Messages
course_name
student_count
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
Ln 9
Col 1
Ch 1
INS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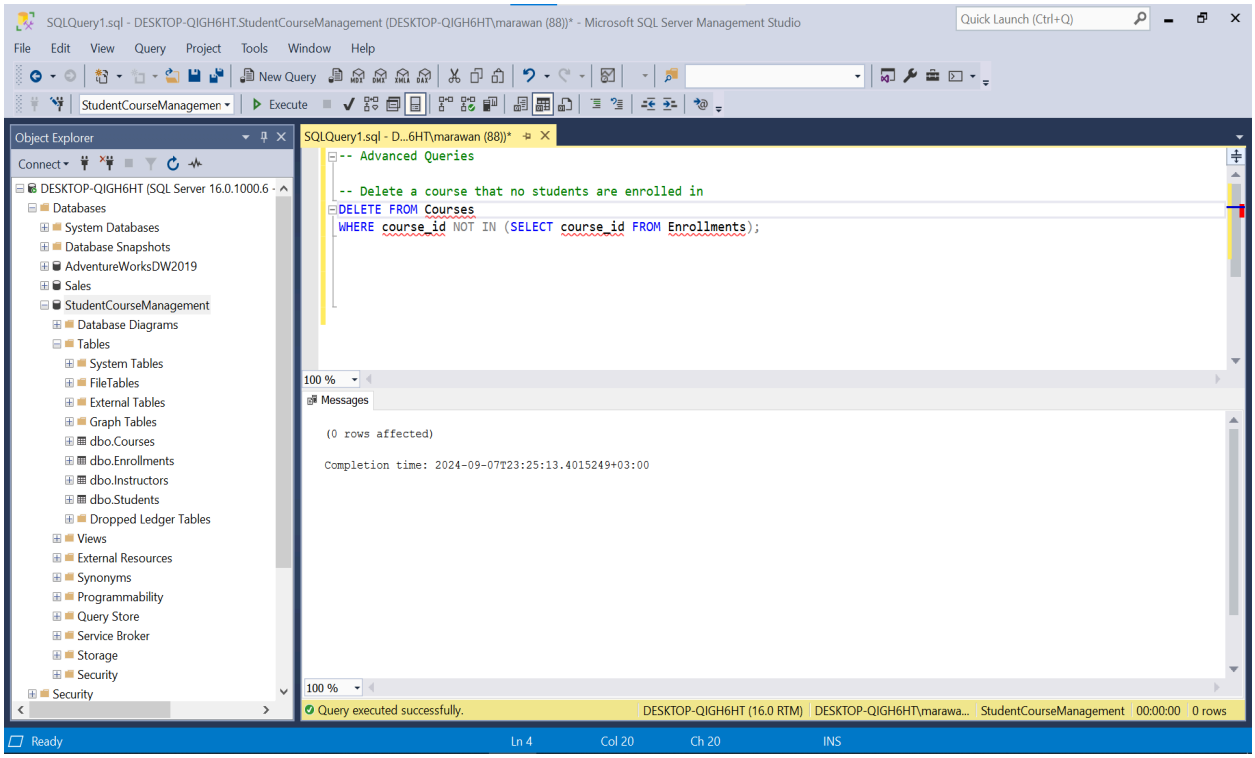
SQLQuery1.sql - D...6HT\marawan (88))*
-- Advanced Queries
-- Update a student's email (student_id = 4)
UPDATE Students
SET email = 'newemail@example.com'
WHERE student_id = 4;
100 %
Messages
(1 row affected)
Completion time: 2024-09-07T23:24:22.8617035+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
Ln 7
Col 1
Ch 1
INS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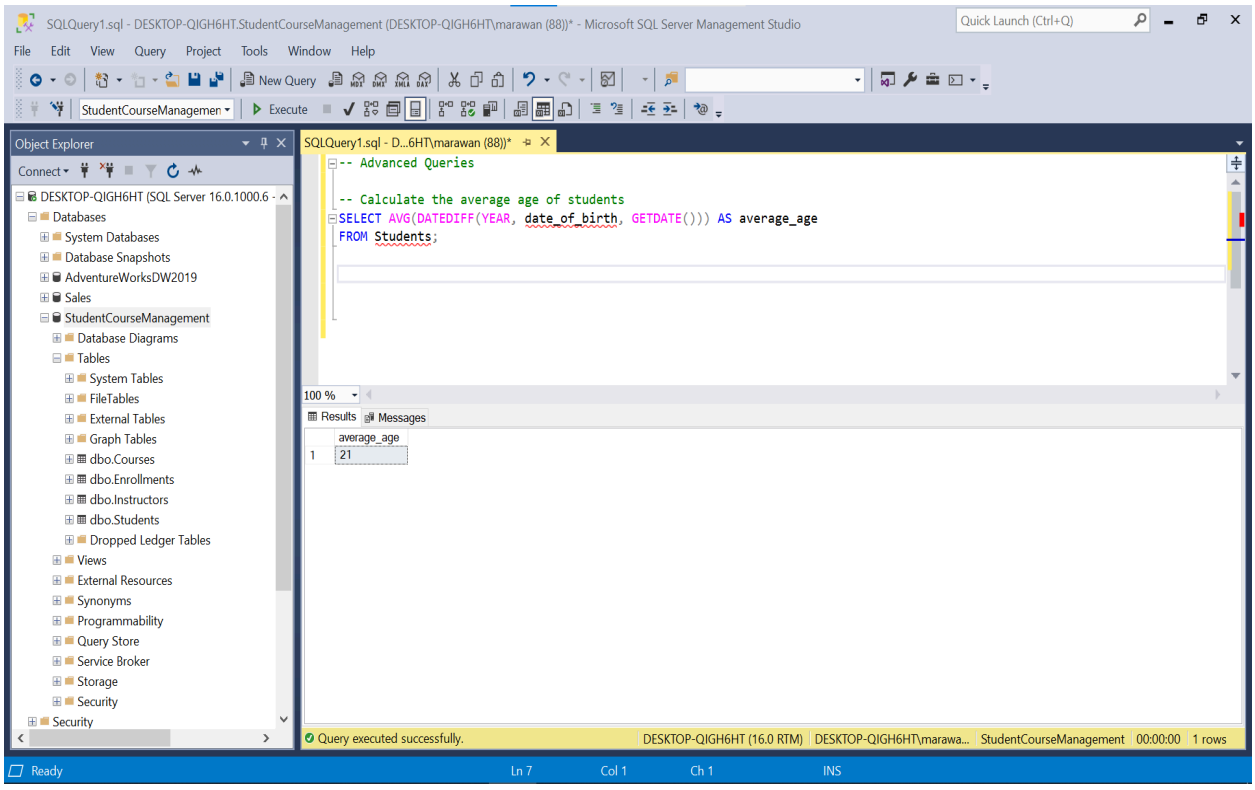
SQLQuery1.sql - D...6HT\marawan (88))*
-- Advanced Queries
-- Delete a course that no students are enrolled in
DELETE FROM Courses
WHERE course_id NOT IN (SELECT course_id FROM Enrollments);
100 %
Messages
(0 rows affected)
Completion time: 2024-09-07T23:25:13.4015249+03:00
100 %
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
0 rows
Ready
Ln 4
Col 20
Ch 20
INS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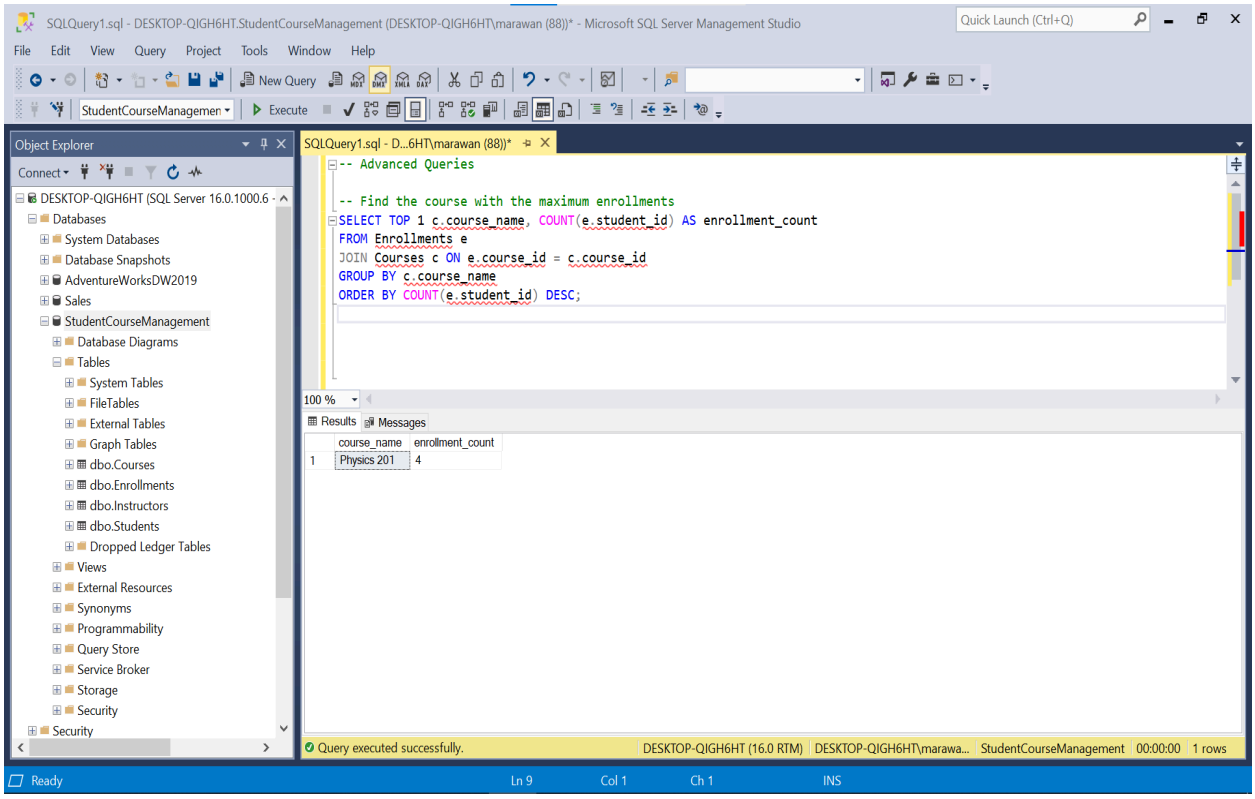
SQLQuery1.sql - D...6HT\marawan (88))*
-- Advanced Queries
-- Calculate the average age of students
SELECT AVG(DATEDIFF(YEAR, date_of_birth, GETDATE())) AS average_age
FROM Students;
100 %
Results
Messages
average_age
1
21
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
1 rows
Ready
Ln 7
Col 1
Ch 1
INS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SQLQuery1.sql - D...6HT\marawan (88))*
-- Advanced Queries
-- Find the course with the maximum enrollments
SELECT TOP 1 c.course_name, COUNT(e.student_id) AS enrollment_count
FROM Enrollments e
JOIN Courses c ON e.course_id = c.course_id
GROUP BY c.course_name
ORDER BY COUNT(e.student_id) DESC;
100 %
Results
Messages
course_name enrollment_count
1 Physics 201 4
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
1 rows
Ready
Ln 9
Col 1
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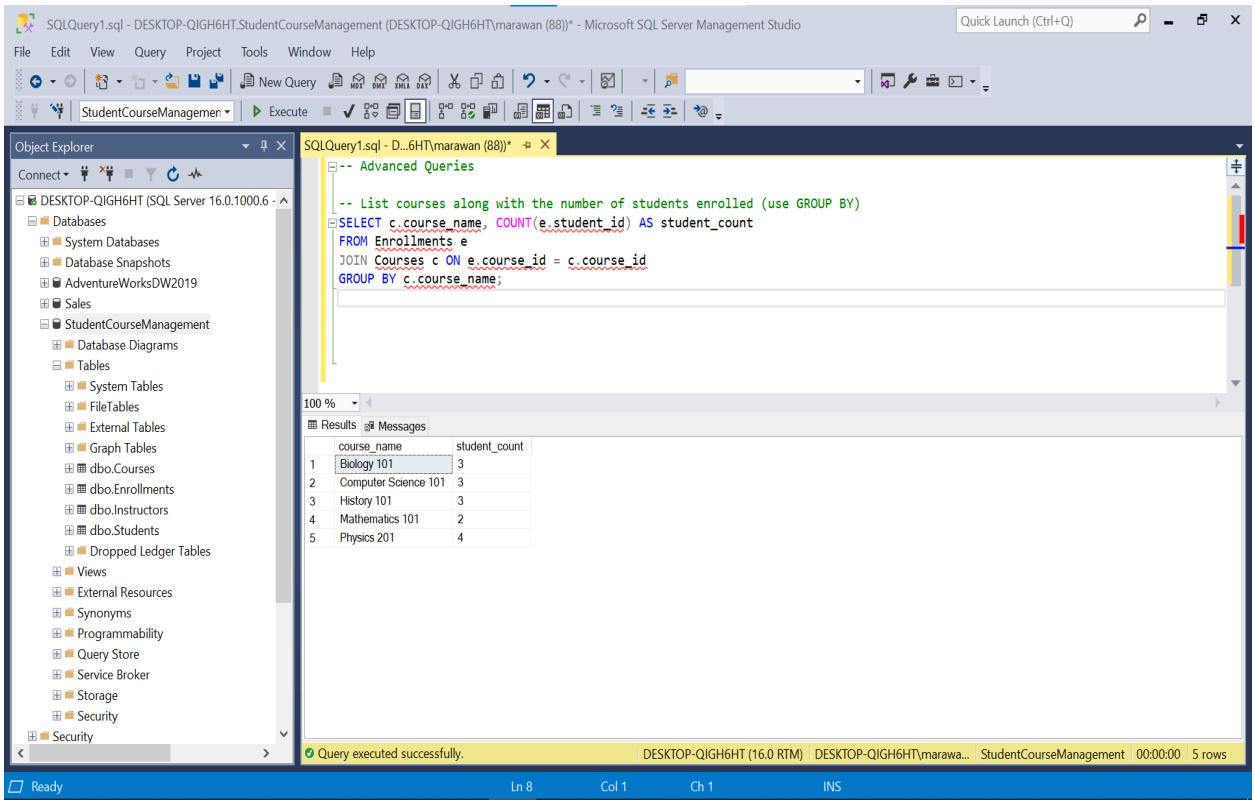
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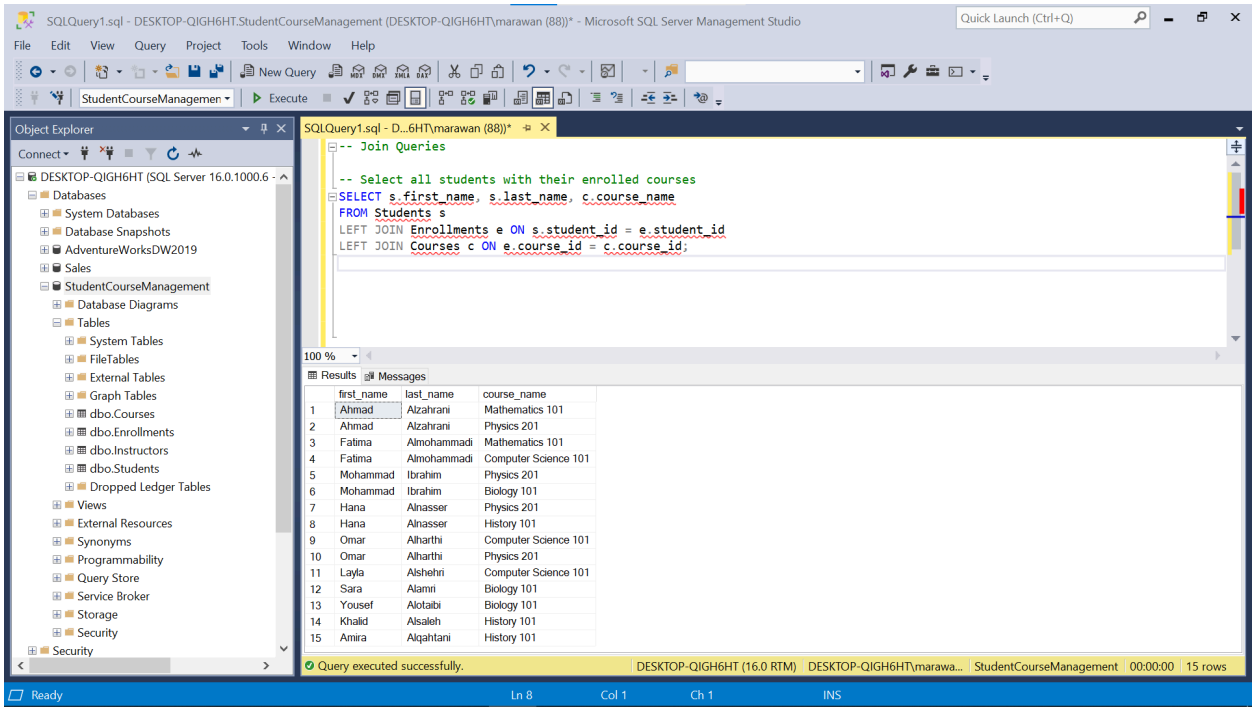
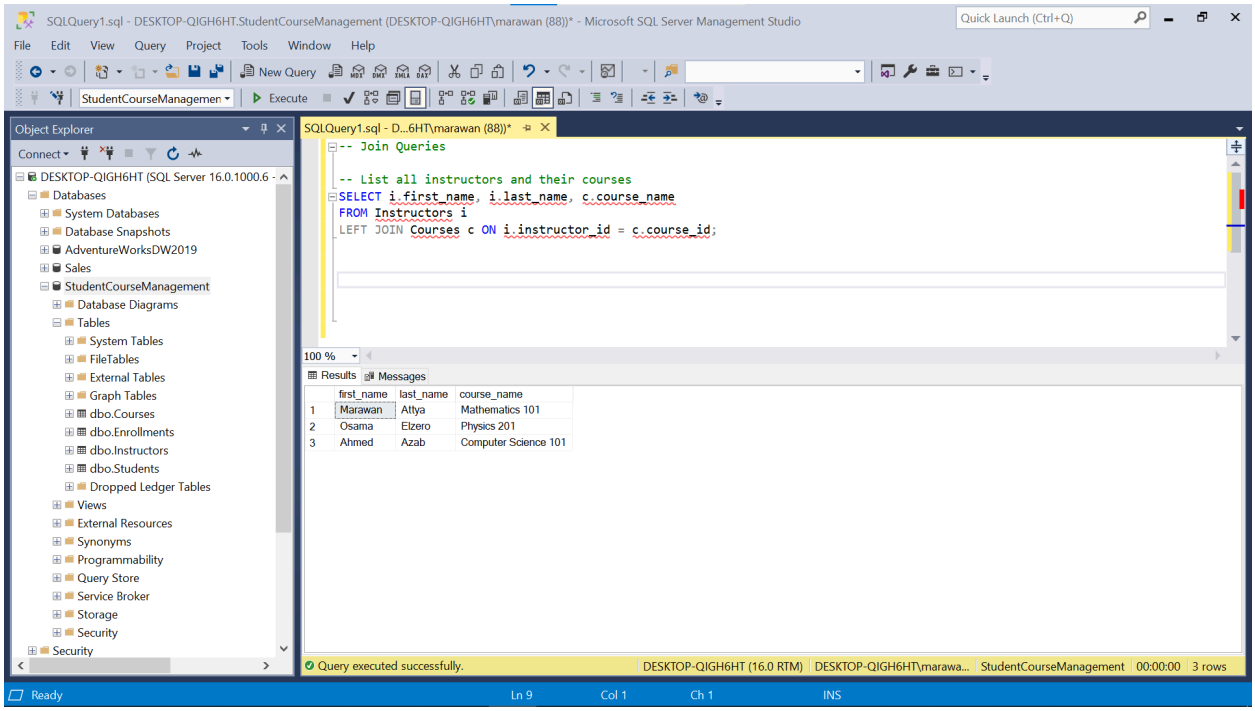
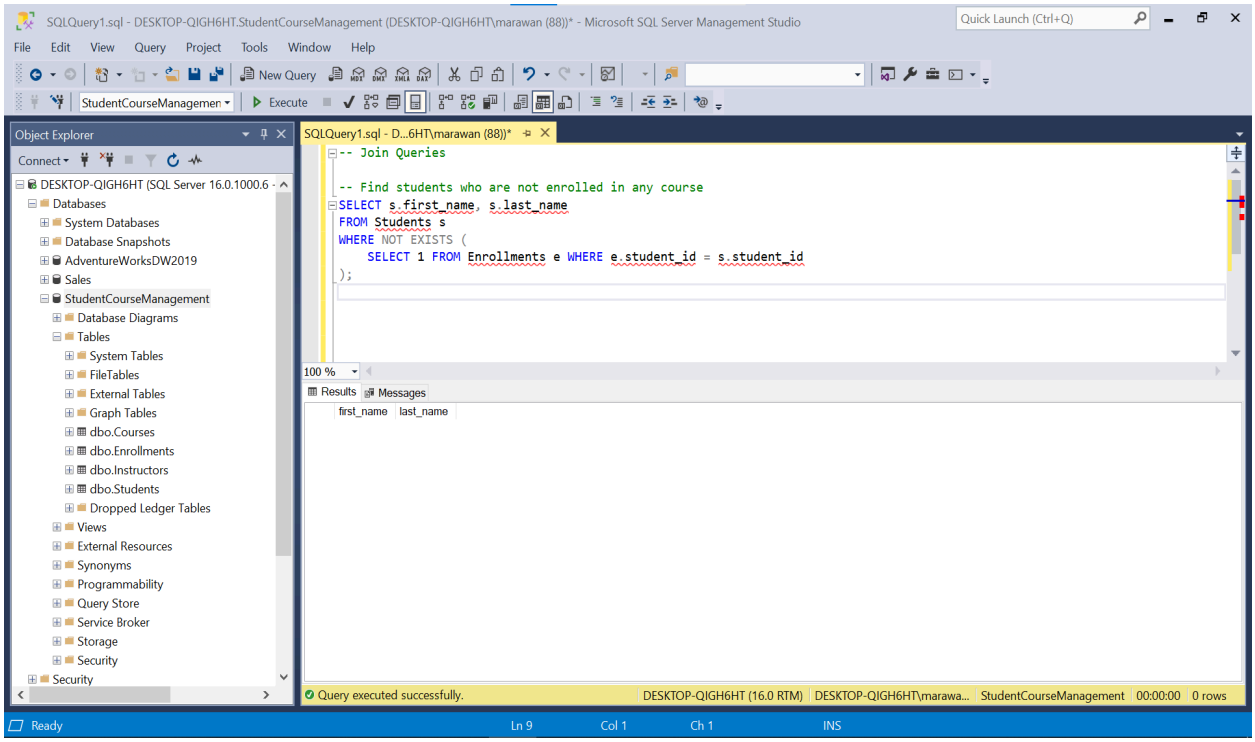
SQLQuery1.sql - D...6HT\marawan (88))*
-- Advanced Queries
-- List courses along with the number of students enrolled (use GROUP BY)
SELECT c.course_name, COUNT(e.student_id) AS student_count
FROM Enrollments e
JOIN Courses c ON e.course_id = c.course_id
GROUP BY c.course_name;
100 %
Results
Messages
course_name student_count
1 Biology 101 3
2 Computer Science 101 3
3 History 101 3
4 Mathematics 101 2
5 Physics 201 4
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
5 rows
Ready
Ln 8
Col 1
Ch 1
INS

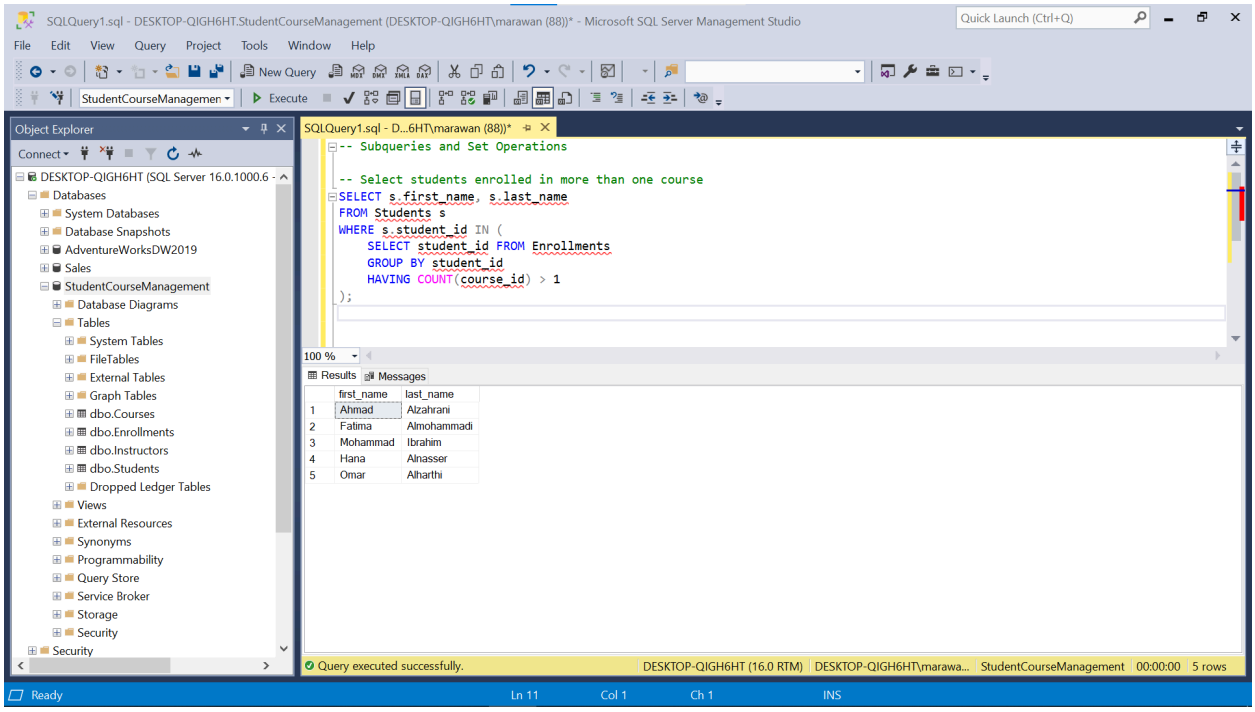
Join Queries

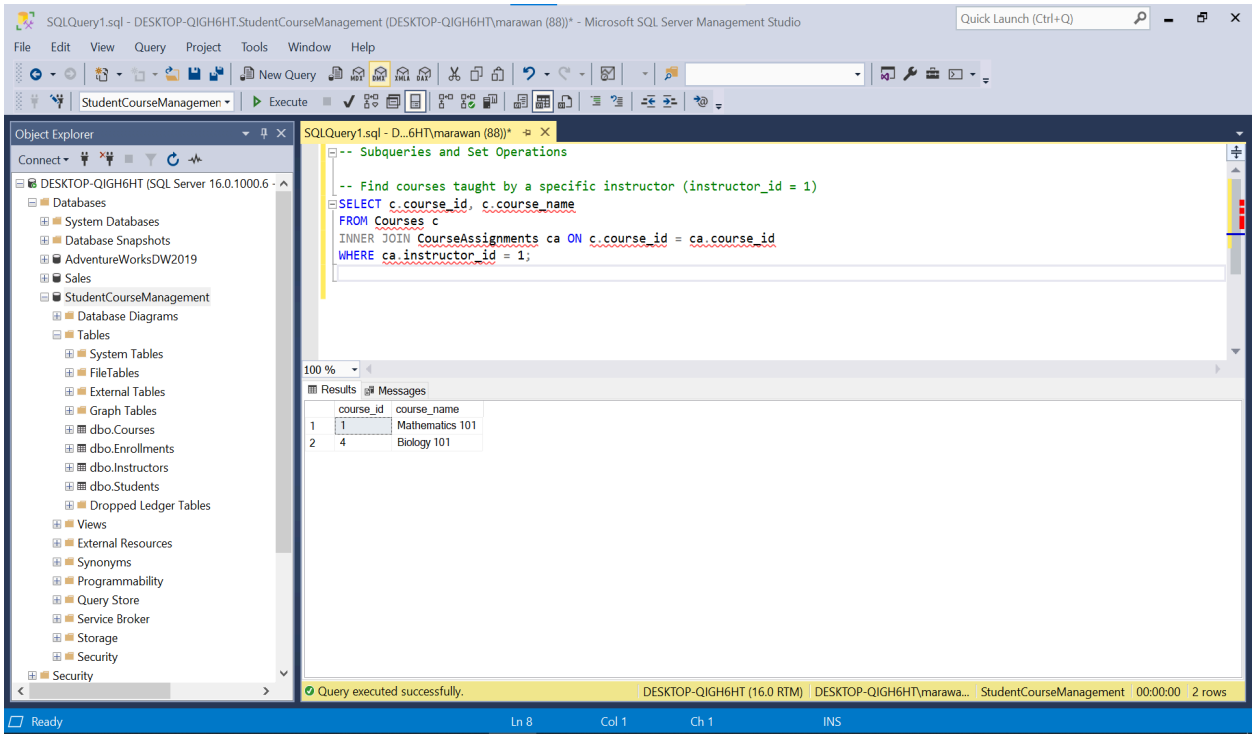






Subqueries and Set Operations




SQLQuery1.sql - DESKTOP-QIGH6HT.StudentCourseManagement (DESKTOP-QIGH6HT\marawan (88))* - Microsoft SQL Server Management Studio
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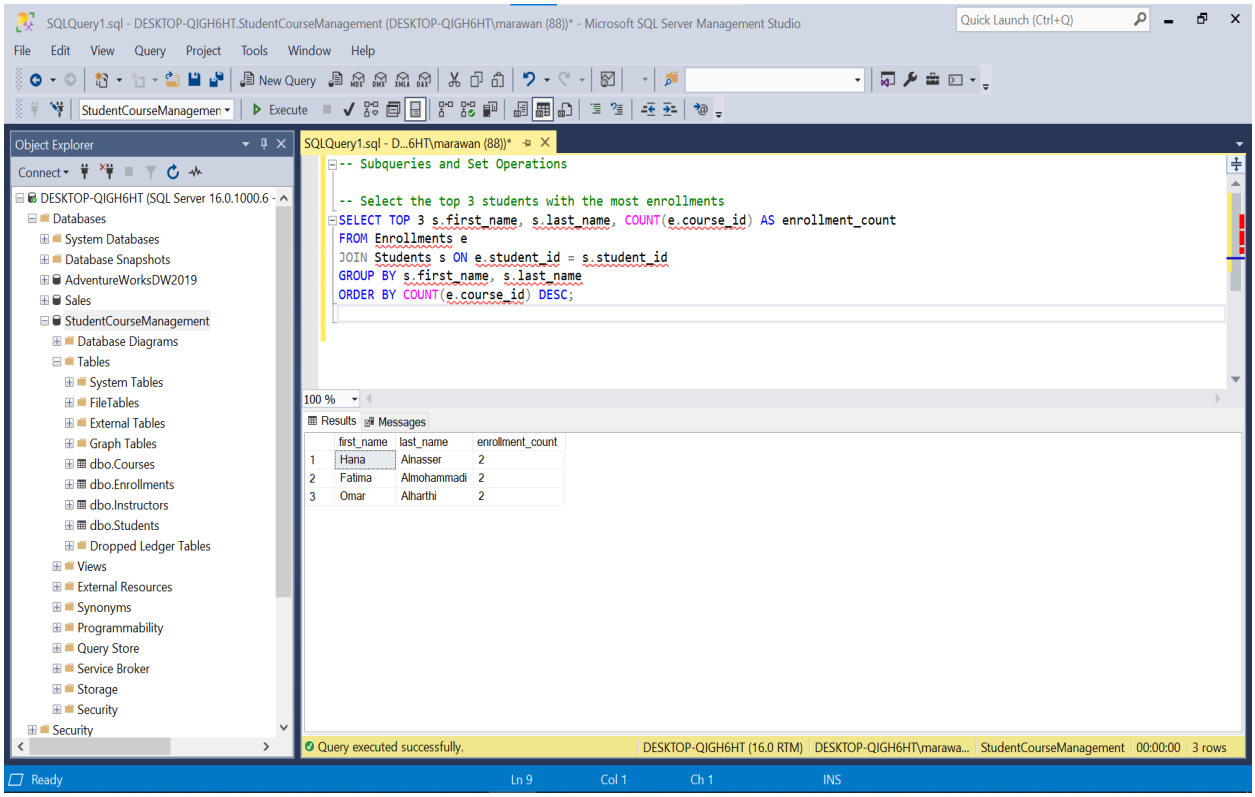
SQLQuery1.sql - D...6HT\marawan (88))*
-- Subqueries and Set Operations
-- Find courses taught by a specific instructor (instructor_id = 1)
SELECT c.course_id, c.course_name
FROM Courses c
INNER JOIN CourseAssignments ca ON c.course_id = ca.course_id
WHERE ca.instructor_id = 1;
100 %
Results
Messages
course_id course_name
1 1 Mathematics 101
2 4 Biology 101
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
2 rows
Ready
Ln 8
Col 1
Ch 1
INS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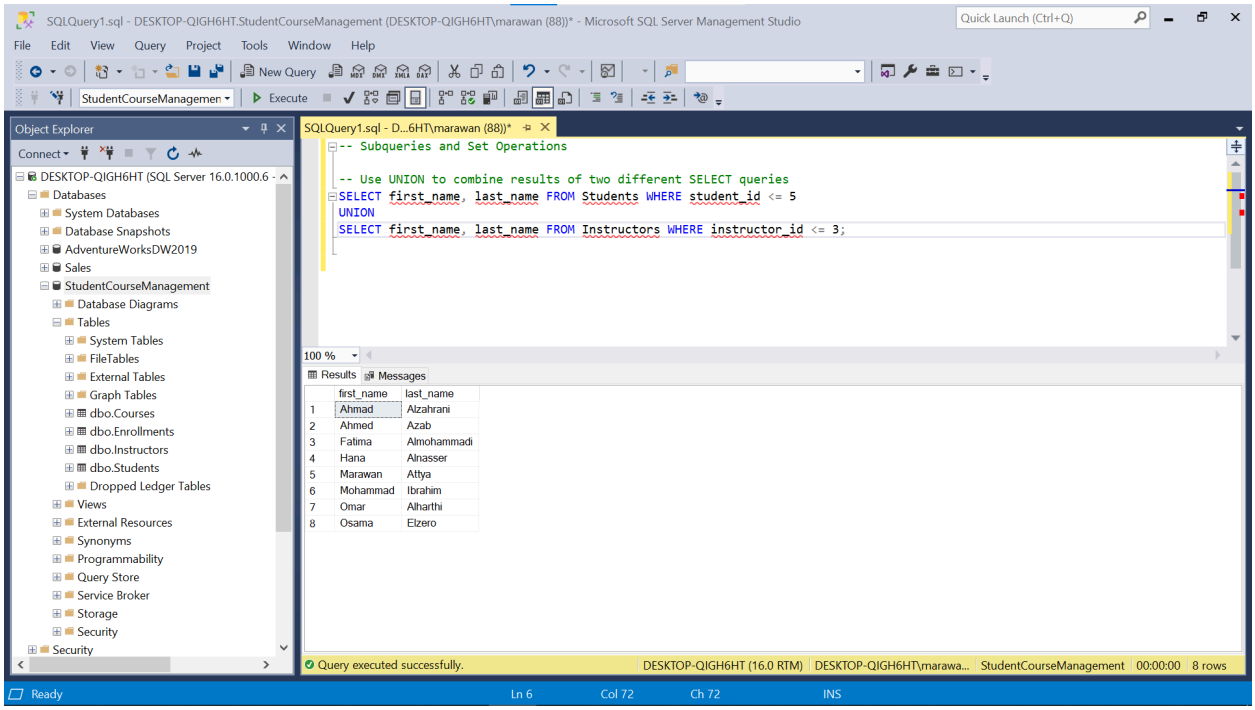
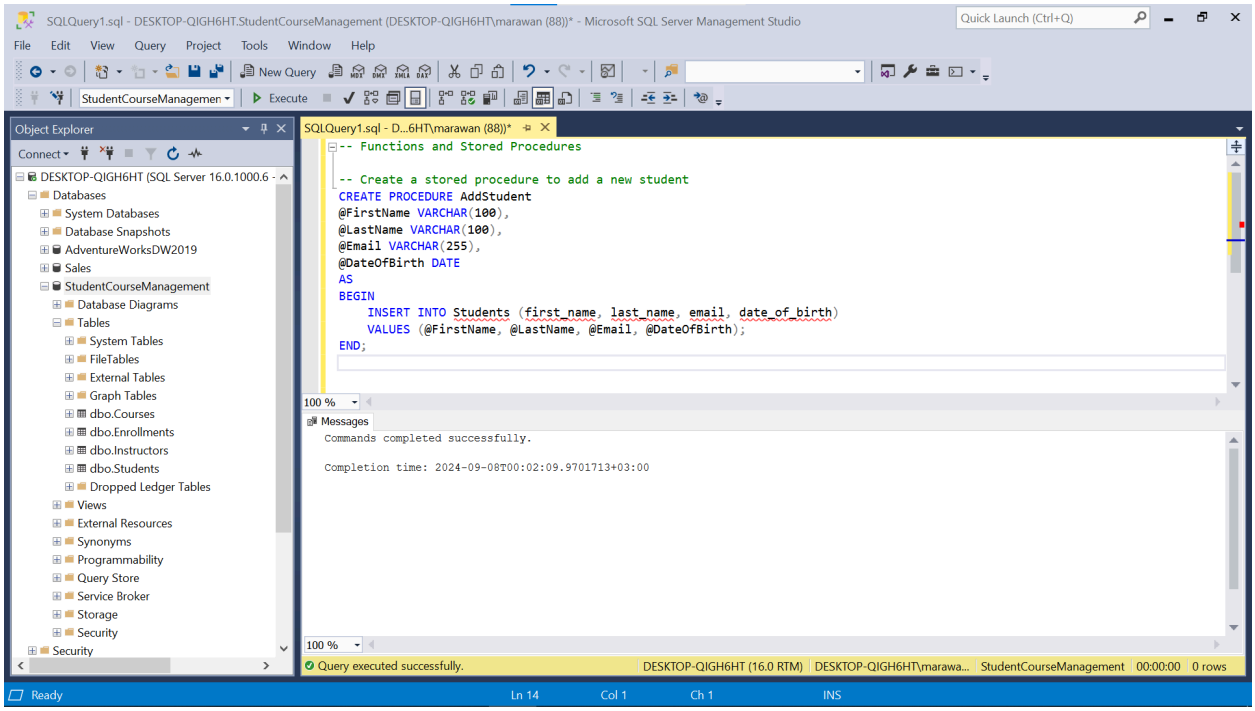
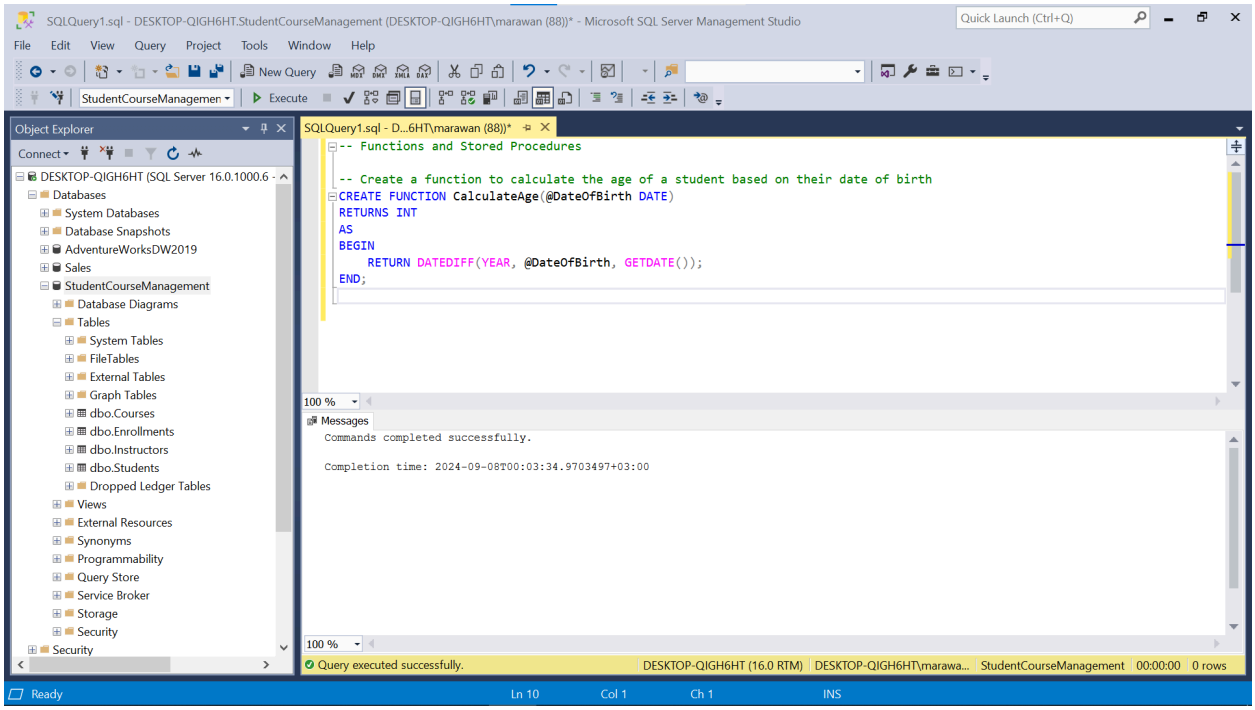
SQLQuery1.sql - D...6HT\marawan (88))*
-- Subqueries and Set Operations
-- Select the top 3 students with the most enrollments
SELECT TOP 3 s.first_name, s.last_name, COUNT(e.course_id) AS enrollment_count
FROM Enrollments e
JOIN Students s ON e.student_id = s.student_id
GROUP BY s.first_name, s.last_name
ORDER BY COUNT(e.course_id) DESC;
100 %
Results
Messages
first_name last_name enrollment_count
1 Hana Alnasser 2
2 Fatima Almohammadi 2
3 Omar Alharthi 2
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
3 rows
Ready
Ln 9
Col 1
Ch 1
INS

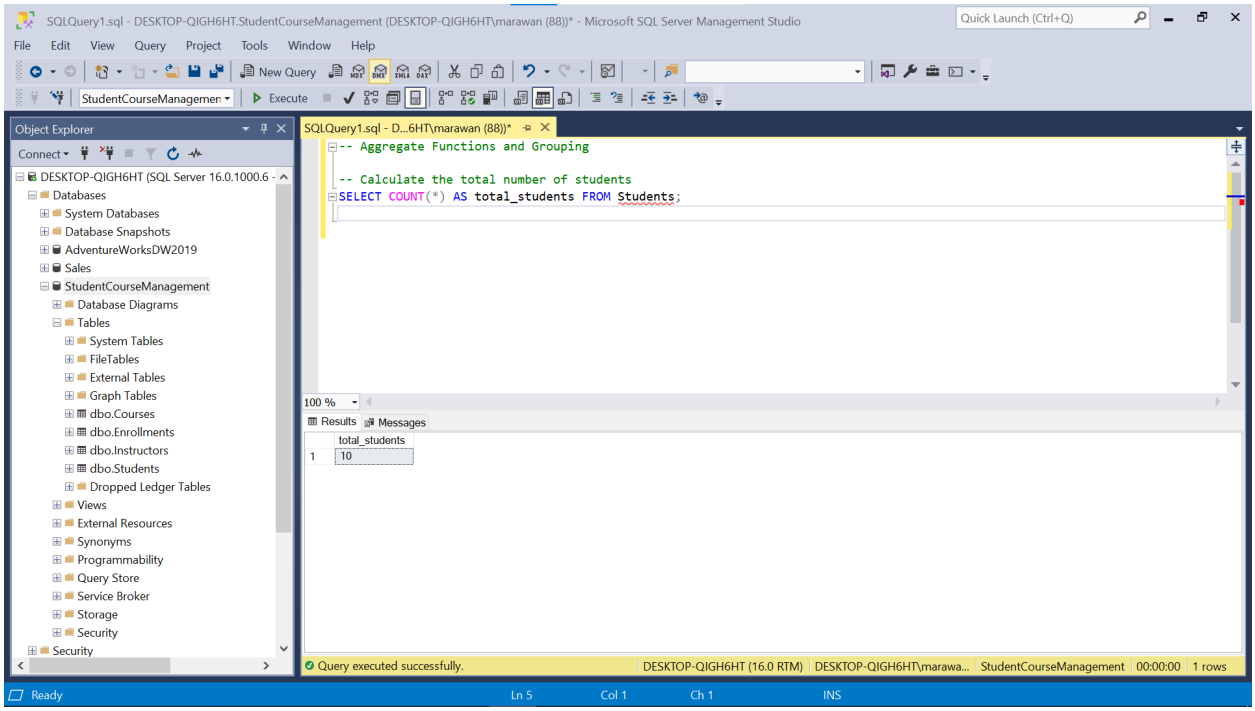


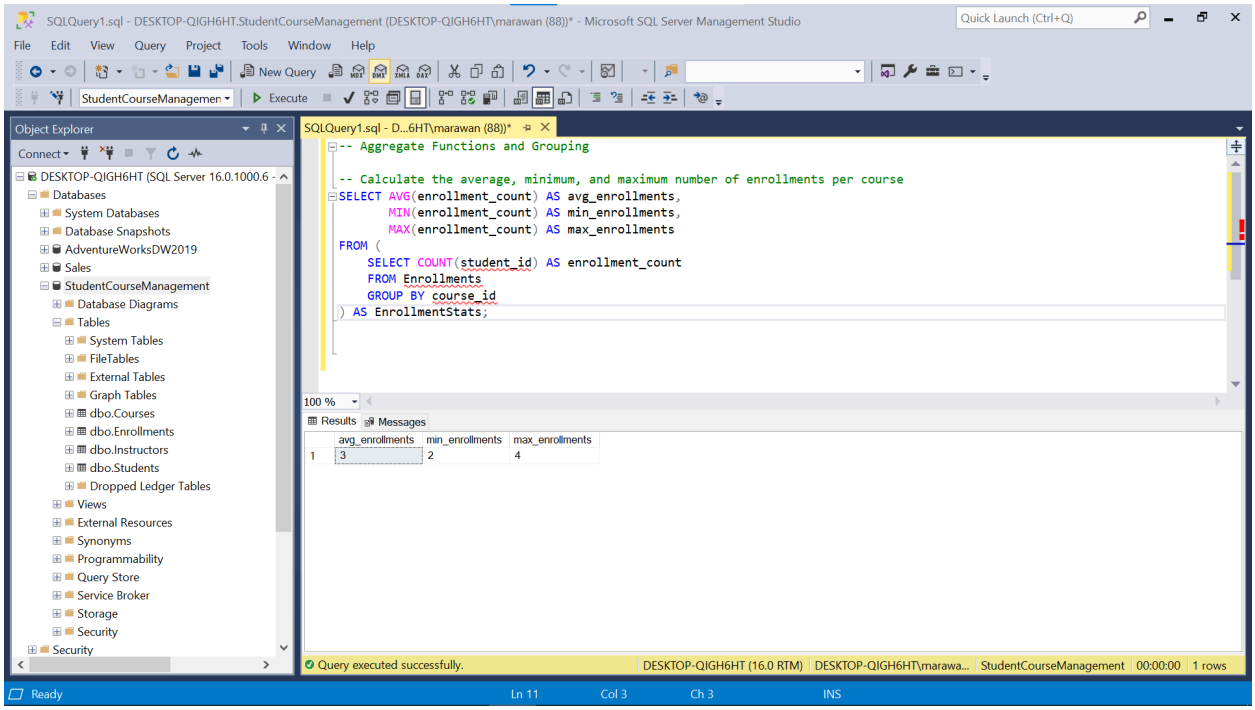
Functions and Stored Procedures



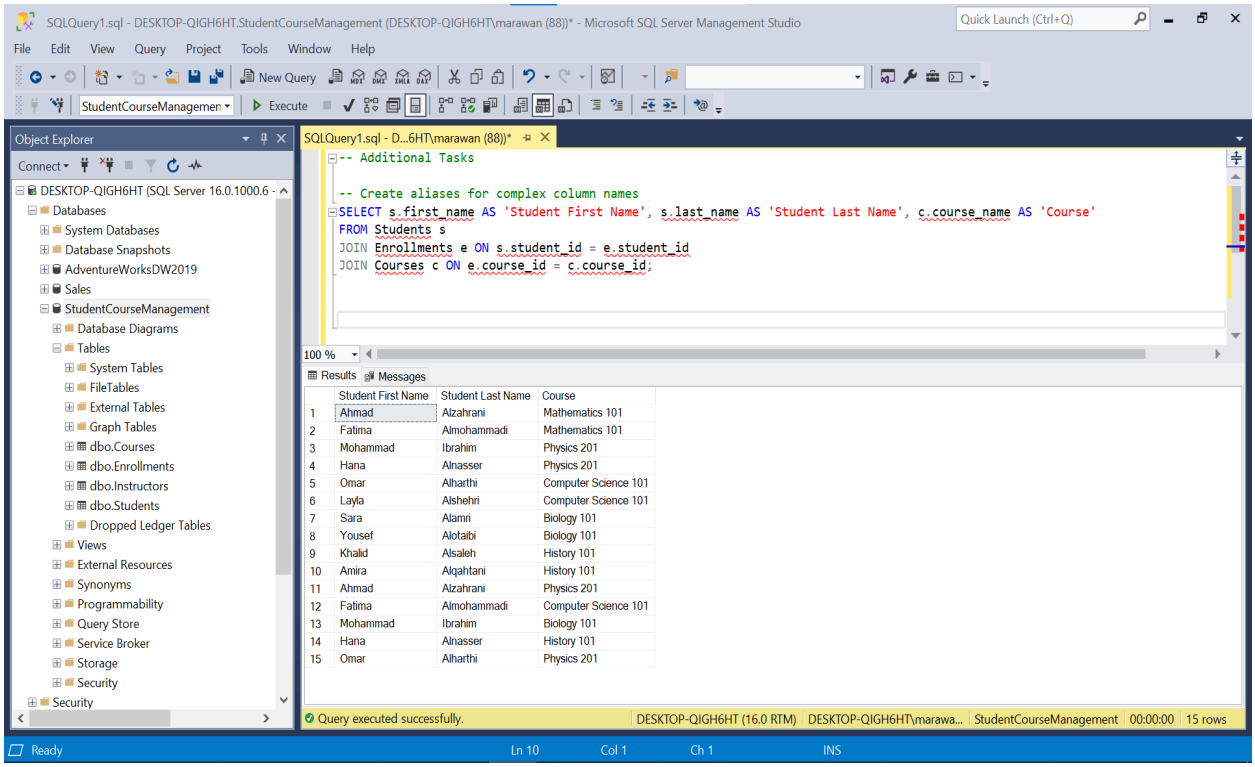


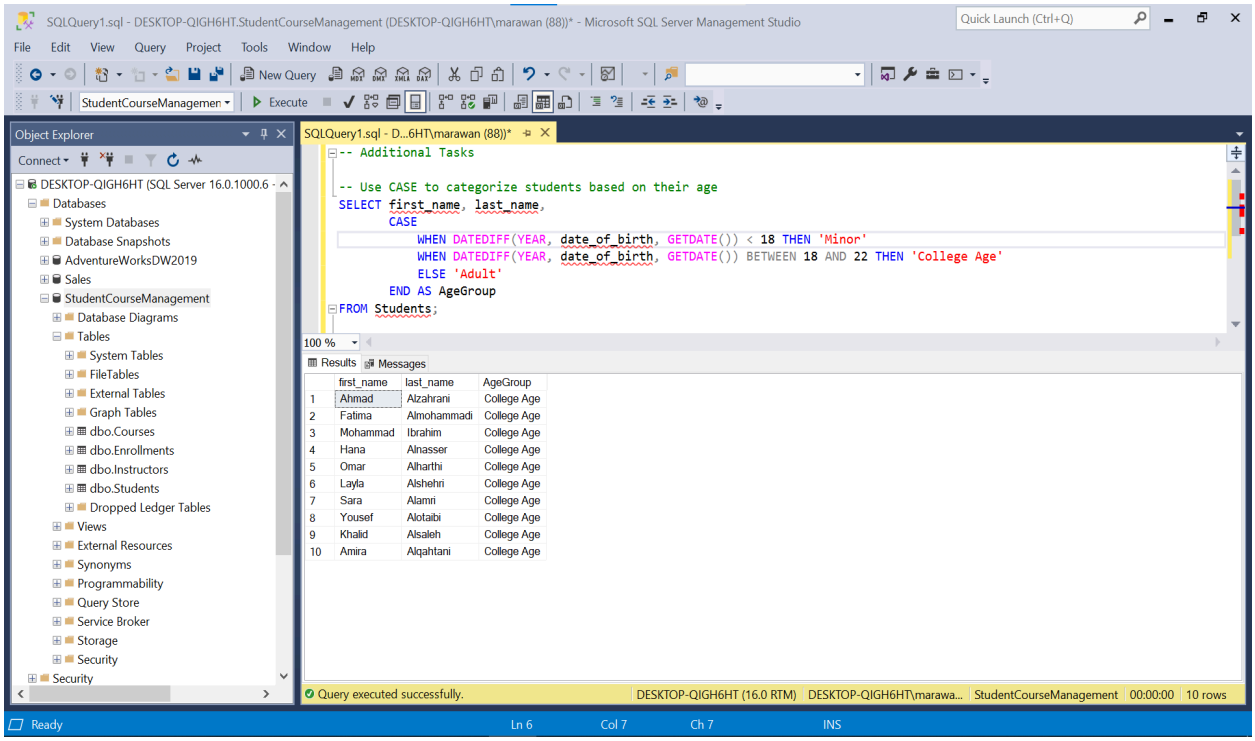
Aggregate Functions and Grouping





Additional Tasks

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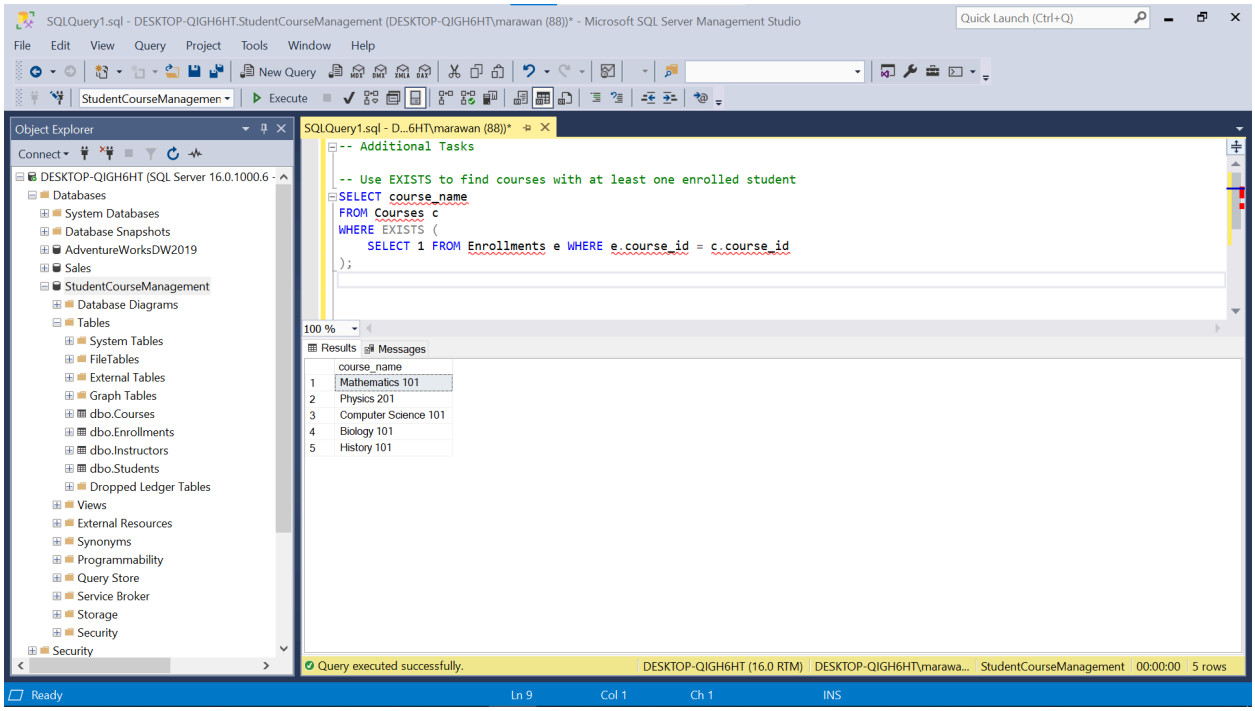
SQLQuery1.sql - D...6HT\marawan (88))*
-- Additional Tasks
-- Use CASE to categorize students based on their age
SELECT first_name, last_name,
CASE
WHEN DATEDIFF(YEAR, date_of_birth, GETDATE()) < 18 THEN 'Minor'
WHEN DATEDIFF(YEAR, date_of_birth, GETDATE()) BETWEEN 18 AND 22 THEN 'College Age'
ELSE 'Adult'
END AS AgeGroup
FROM Students;
100 %
Results
Messages
first_name last_name AgeGroup
1 Ahmad Alzahrani College Age
2 Fatima Almohammadi College Age
3 Mohammad Ibrahim College Age
4 Hana Alnasser College Age
5 Omar Alharthi College Age
6 Layla Alshehri College Age
7 Sara Alamri College Age
8 Yousef Alotaibi College Age
9 Khalid Alsaleh College Age
10 Amira Alqahtani College Age
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
10 rows
Ready
Ln 6
Col 7
Ch 7
INS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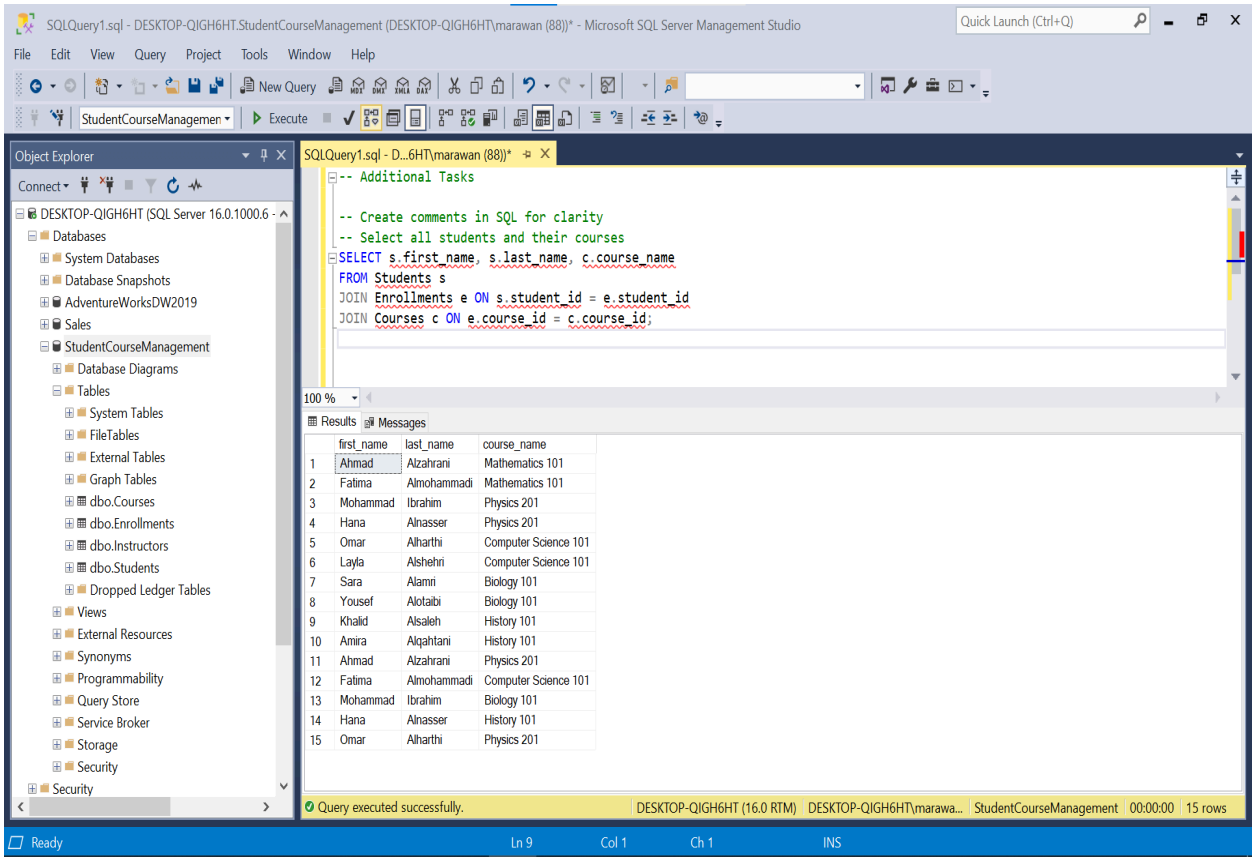
SQLQuery1.sql - D...6HT\marawan (88))*
-- Additional Tasks
-- Use EXISTS to find courses with at least one enrolled student
SELECT course_name
FROM Courses c
WHERE EXISTS (
SELECT 1 FROM Enrollments e WHERE e.course_id = c.course_id
);
100 %
Results
Messages
course_name
1 Mathematics 101
2 Physics 201
3 Computer Science 101
4 Biology 101
5 History 101
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
5 rows
Ready
Ln 9
Col 1
Ch 1
INS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SQLQuery1.sql - D...6HT\marawan (88))*
-- Additional Tasks
-- Create comments in SQL for clarity
-- Select all students and their courses
SELECT s.first_name, s.last_name, c.course_name
FROM Students s
JOIN Enrollments e ON s.student_id = e.student_id
JOIN Courses c ON e.course_id = c.course_id;
100 %
Results
Messages
first_name last_name course_name
1 Ahmad Alzahrani Mathematics 101
2 Fatima Almohammadi Mathematics 101
3 Mohammad Ibrahim Physics 201
4 Hana Alnasser Physics 201
5 Omar Alharthi Computer Science 101
6 Layla Alshehri Computer Science 101
7 Sara Alamri Biology 101
8 Yousef Alotaibi Biology 101
9 Khalid Alsaleh History 101
10 Amira Alqahtani History 101
11 Ahmad Alzahrani Physics 201
12 Fatima Almohammadi Computer Science 101
13 Mohammad Ibrahim Biology 101
14 Hana Alnasser History 101
15 Omar Alharthi Physics 201
Query executed successfully.
DESKTOP-QIGH6HT (16.0 RTM)
DESKTOP-QIGH6HT\marawa...
StudentCourseManagement
00:00:00
15 rows
Ready
Ln 9
Col 1
Ch 1
INS