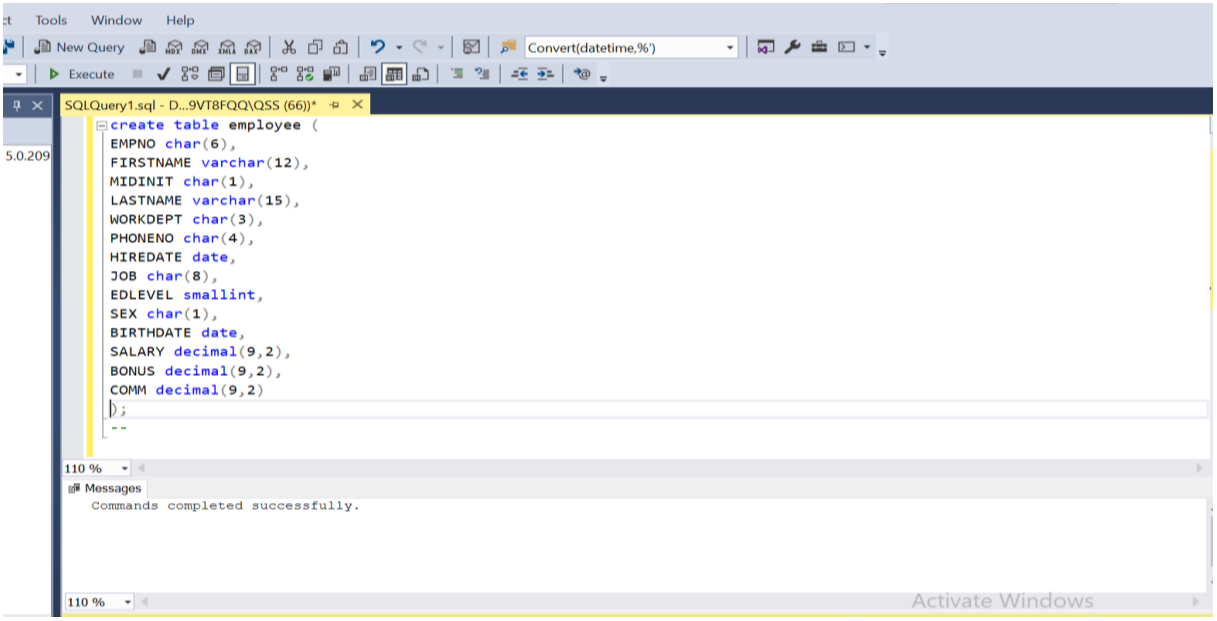
ASSIGNMENT 2 – USER DEFINED FUNCTIONS

Name- Amrit Pal Singh

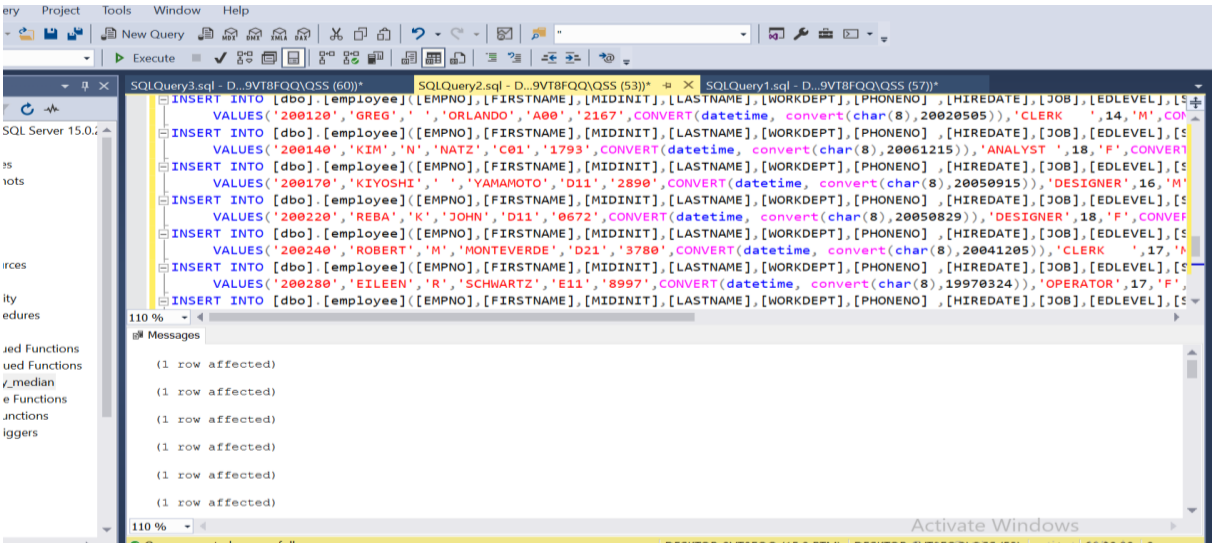
Student ID- 110355211

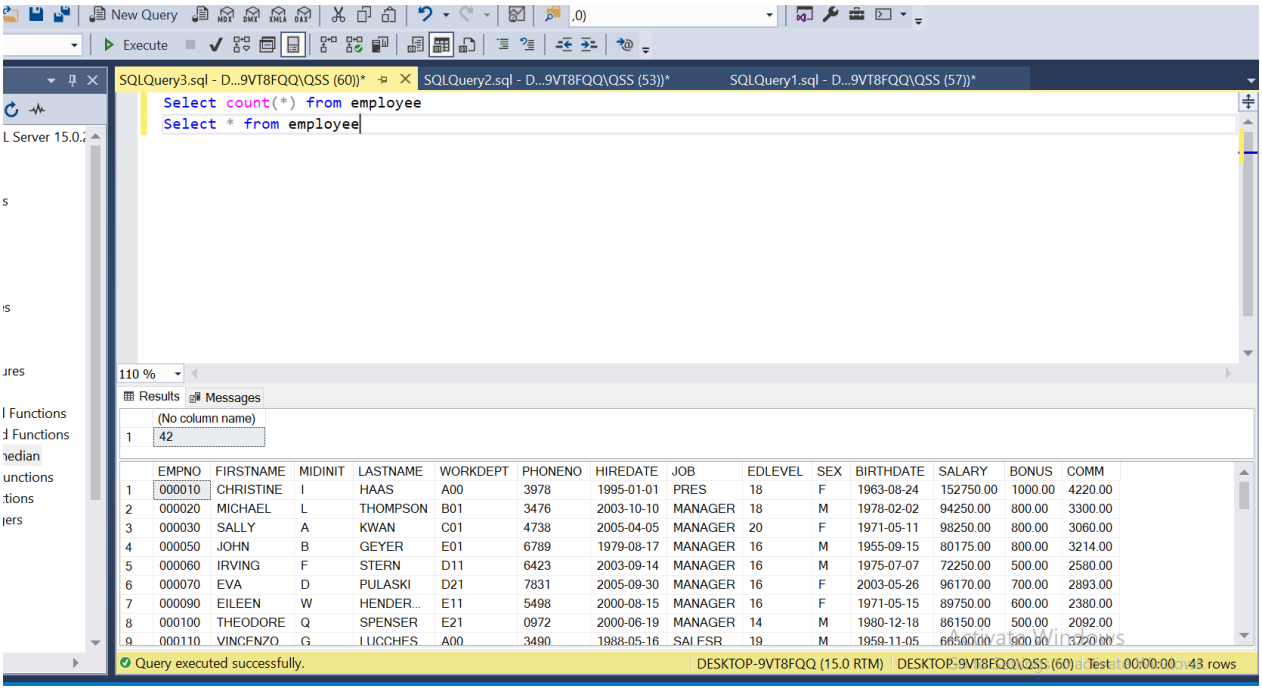
1. Preparation

Create Employee Table



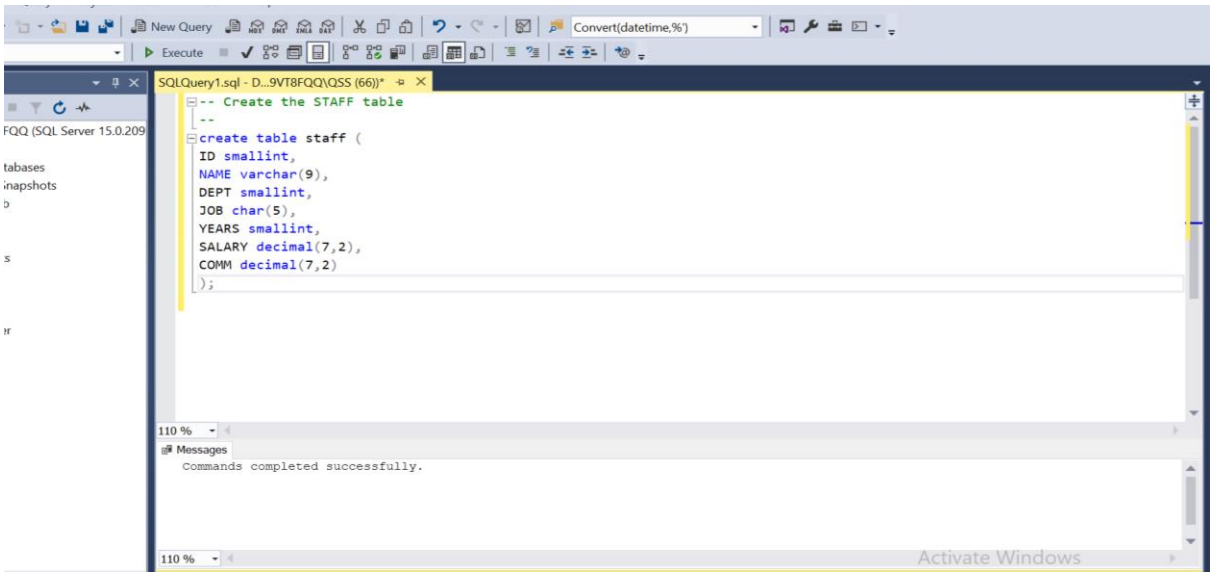
Insert data into Employee table



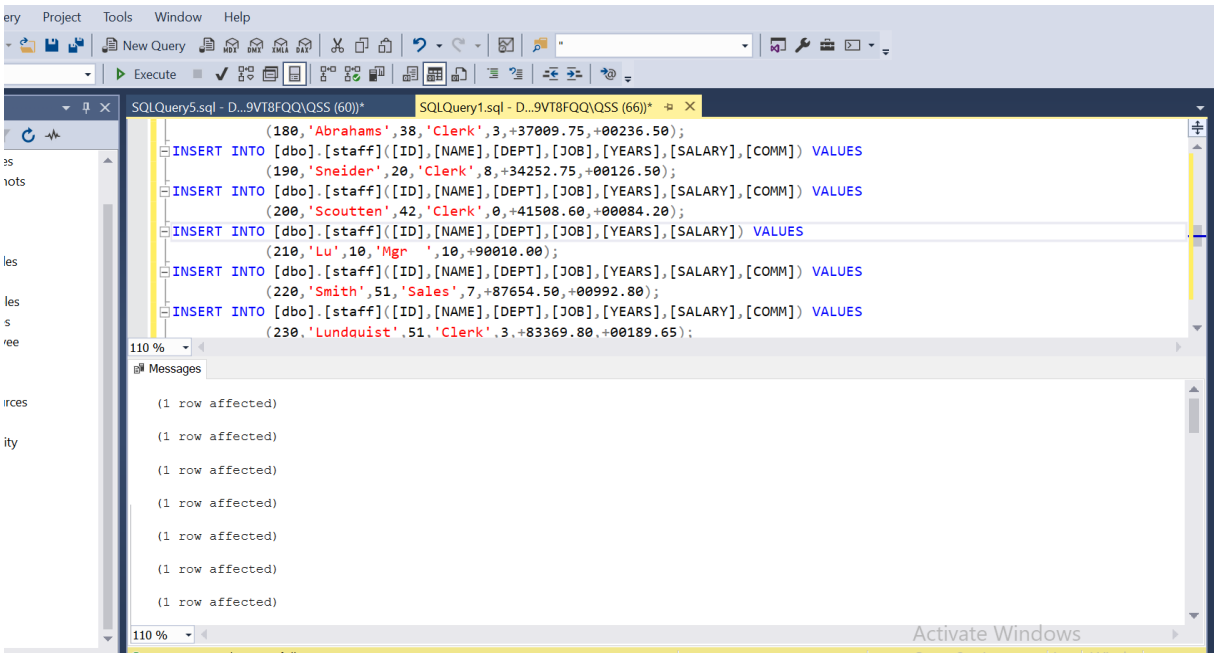


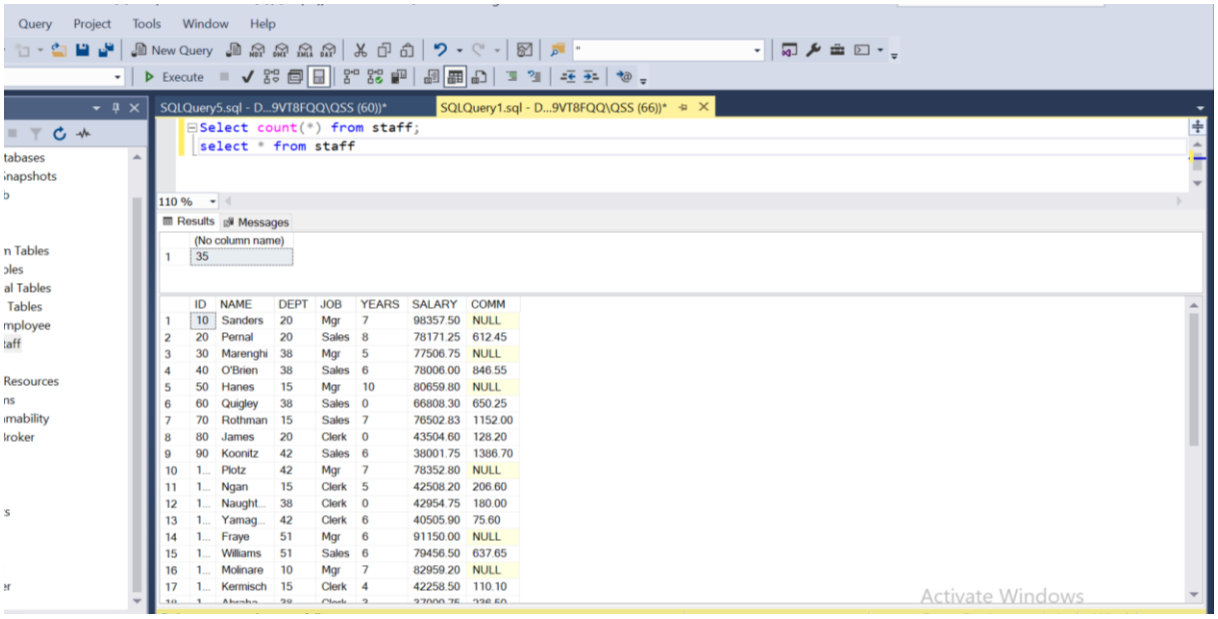
Overview of the employee table

Create Staff Table



Insert data into Staff table





Overview of the staff table

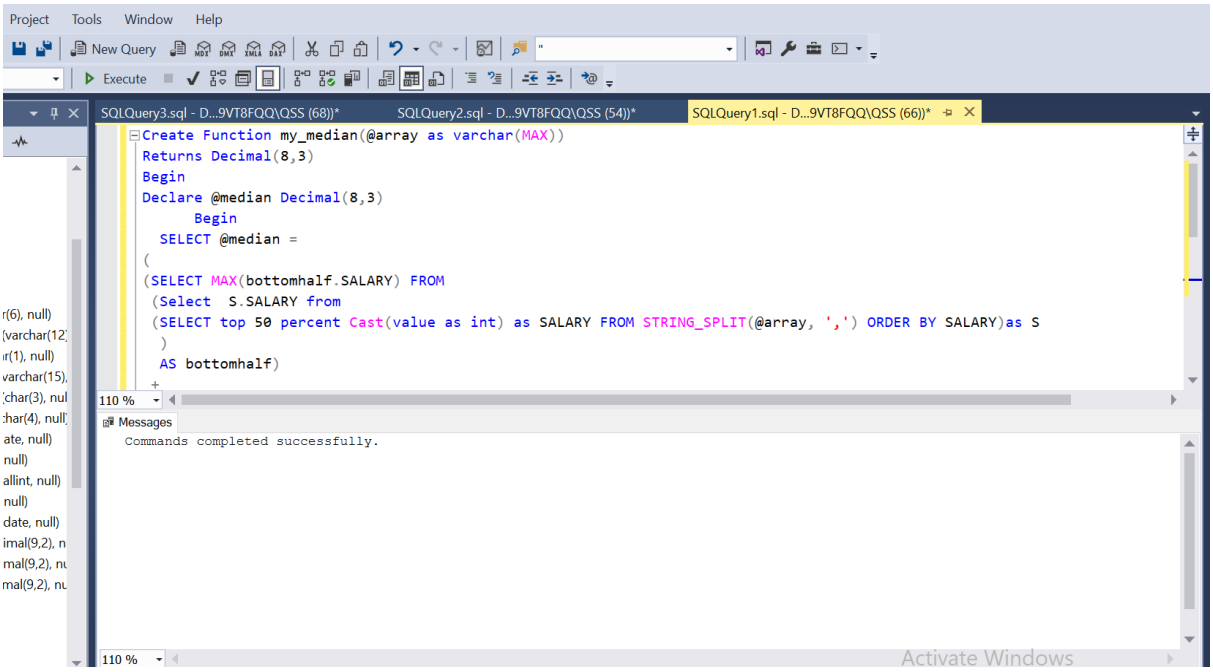
2. my_median

Write a function called *my_median* which takes the values in a column (like salary) as input and will output the mathematical median of the values in that column.

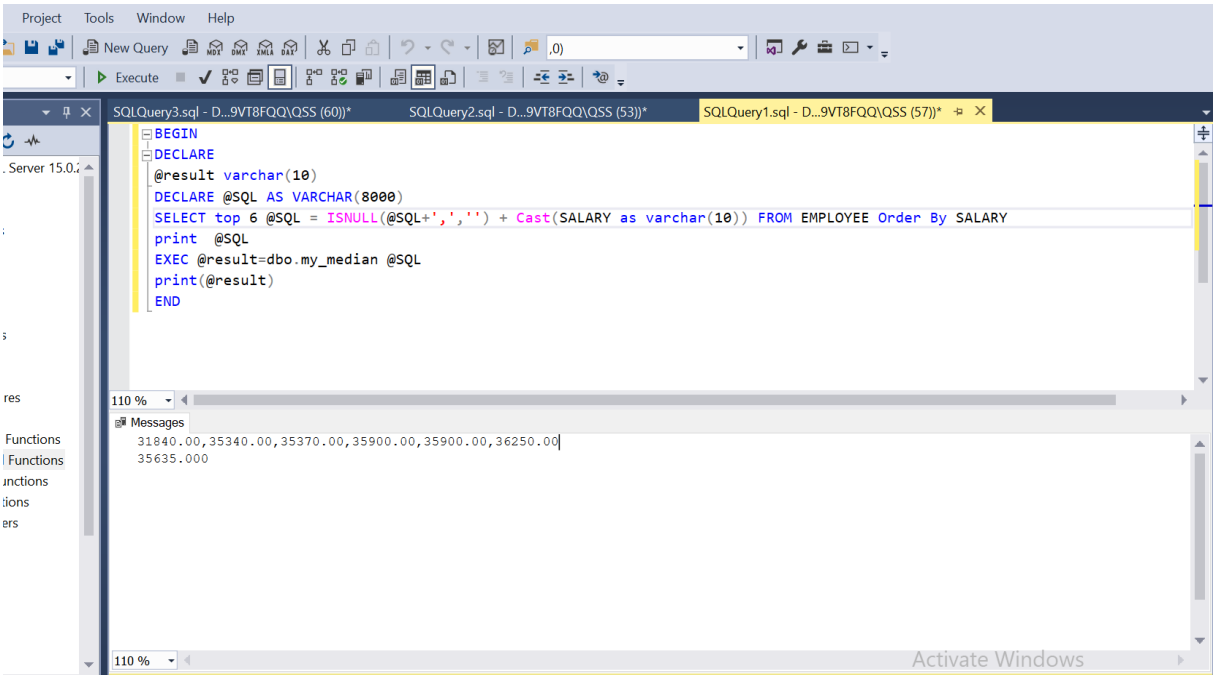
The definition of median is:

X is the **ordered** list of elements
n is the number of elements in the list

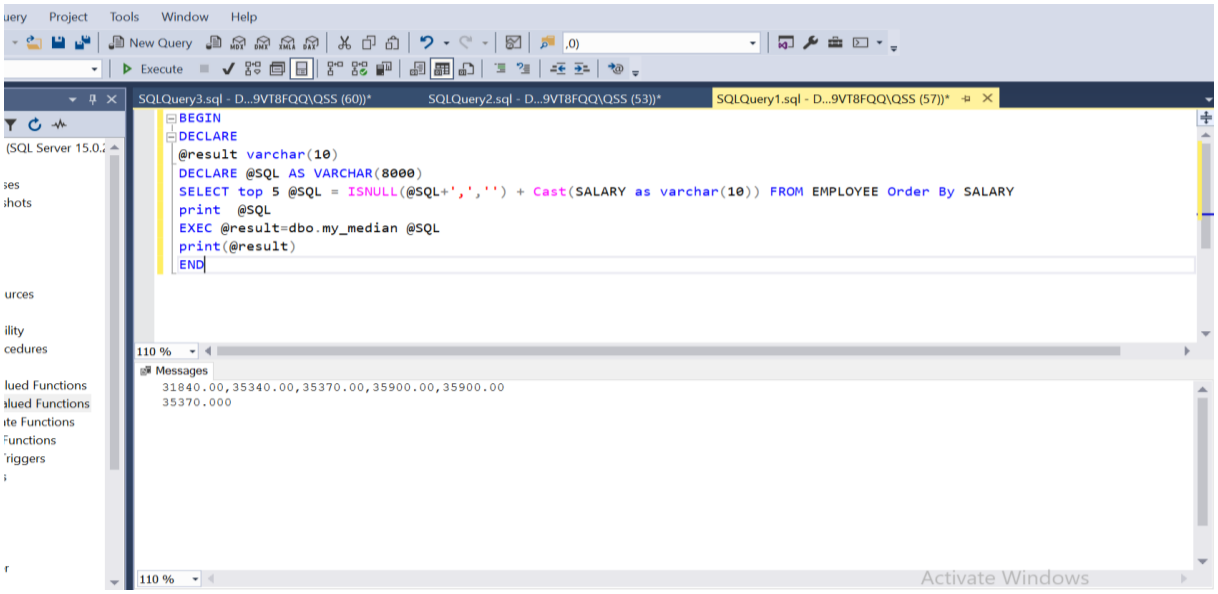
Median(X) = X [(n+1)/2], if n is odd
Median(X) = (X [n/2] + X[(n/2) +1])/2, if n is even



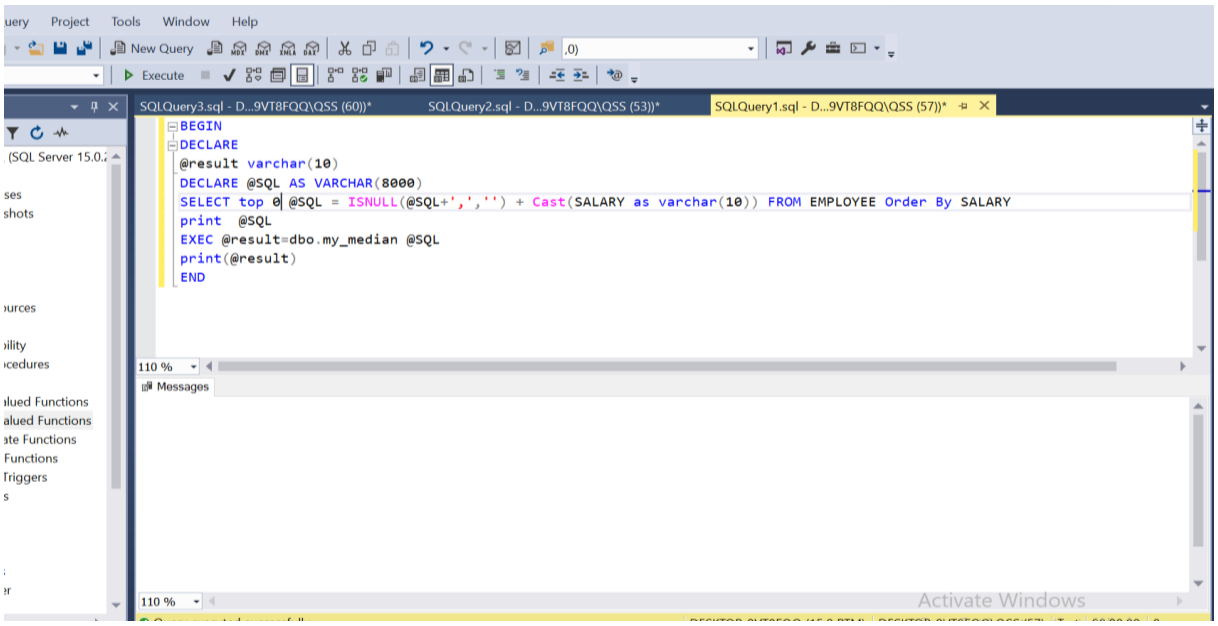
my_median



A list with an even amount of elements



A list with an odd amount of elements



An Empty List

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3. my_mode

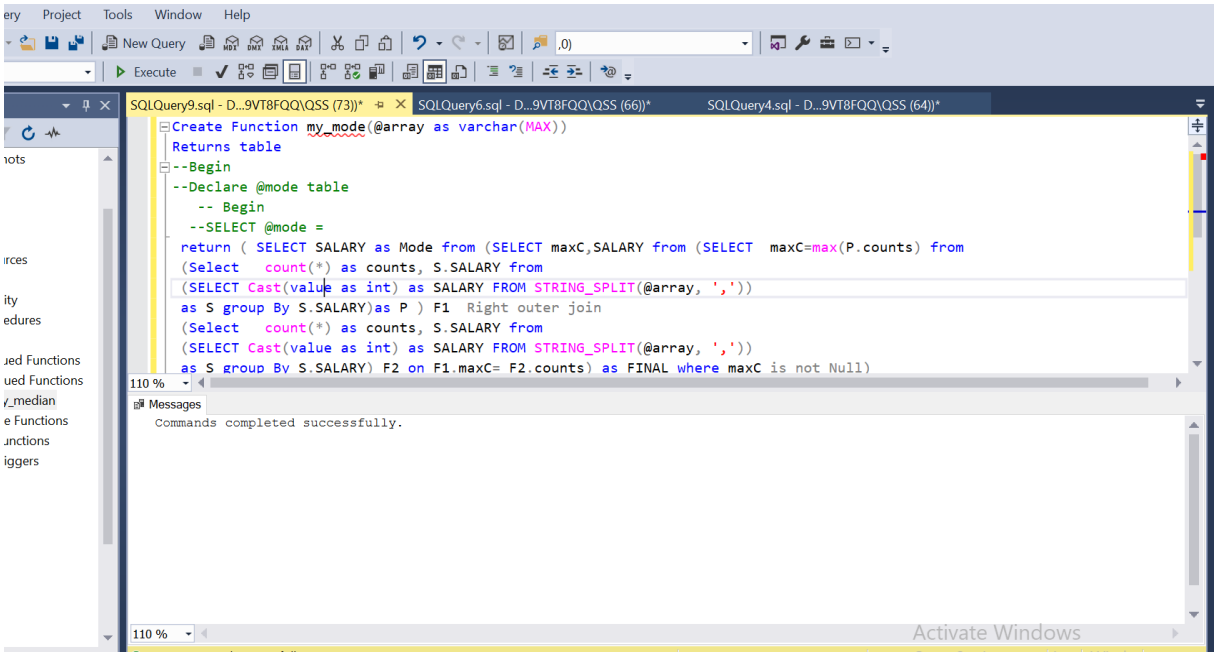
Write a function called *my_mode* which takes the values in a column (like department) as input and will output the mathematical mode of the values in that column.

The definition of mode is the value which occurs most frequently in the list. There are three cases:

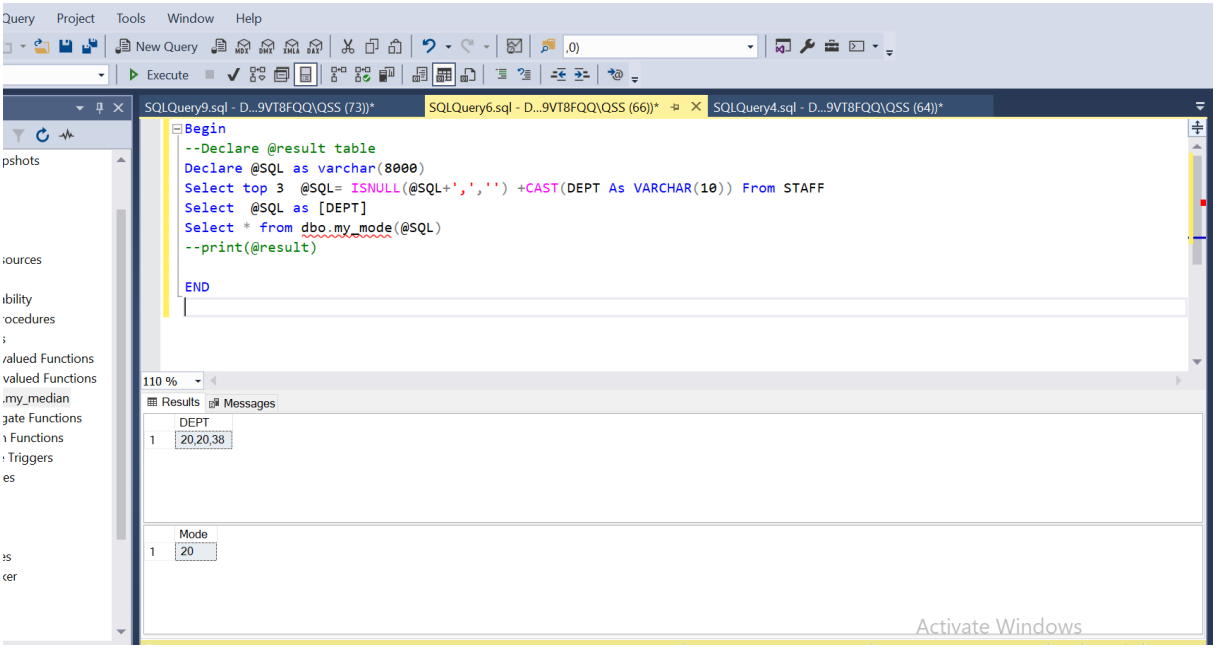
A – There is one mode in the list

B – There are multiple modes in the list

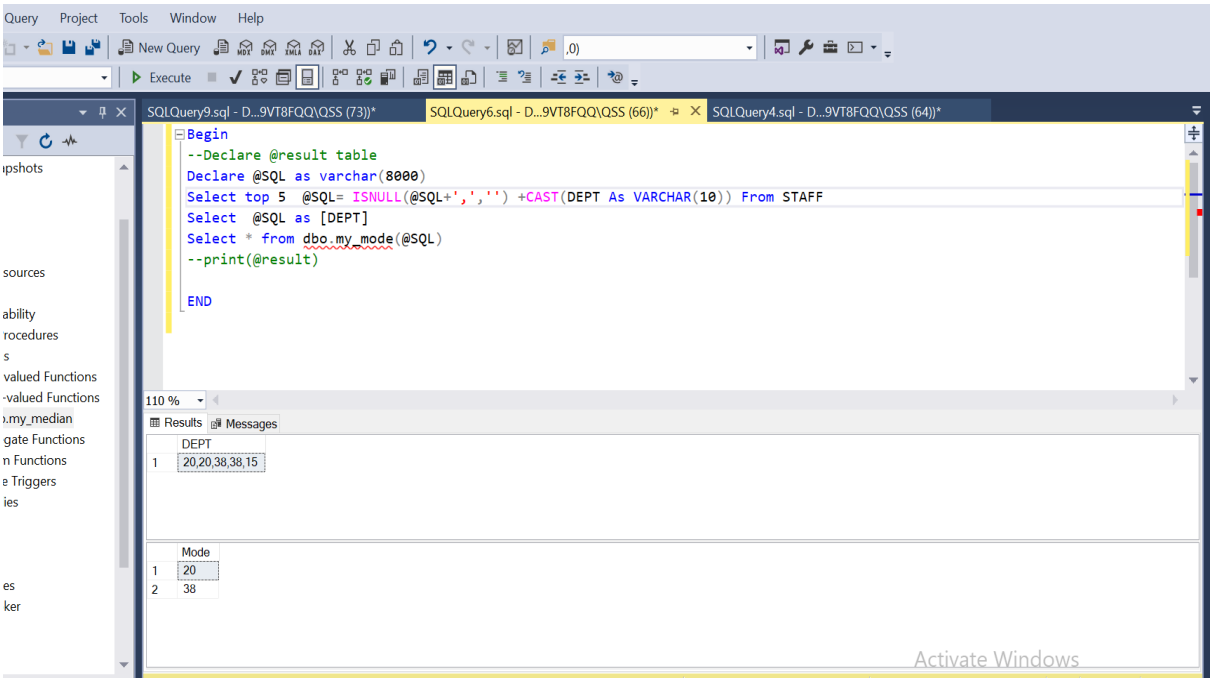
C – There are no modes in the list



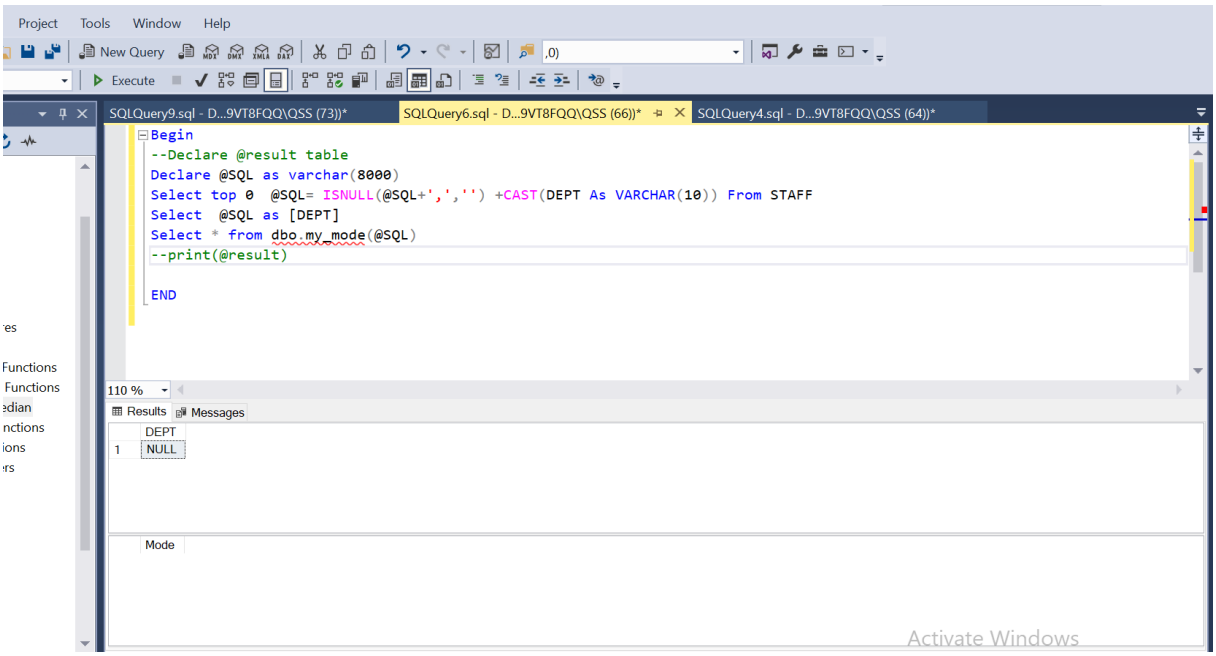
my_mode



A list with one mode



A list with two modes



An Empty list

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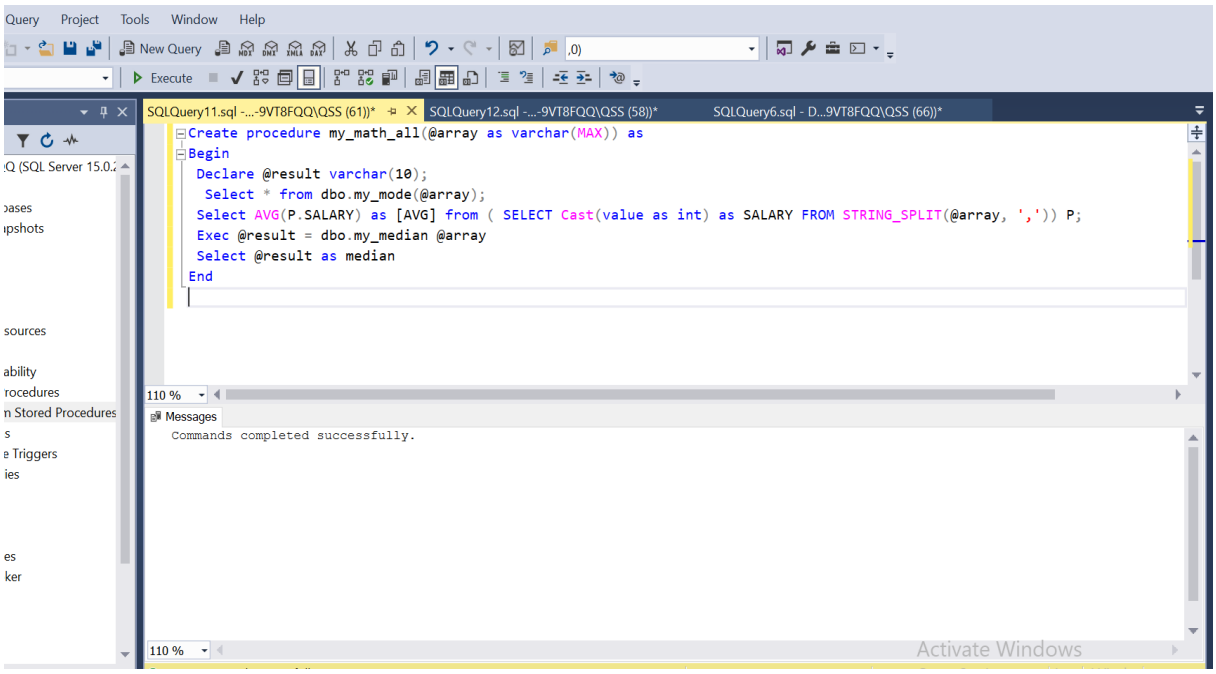
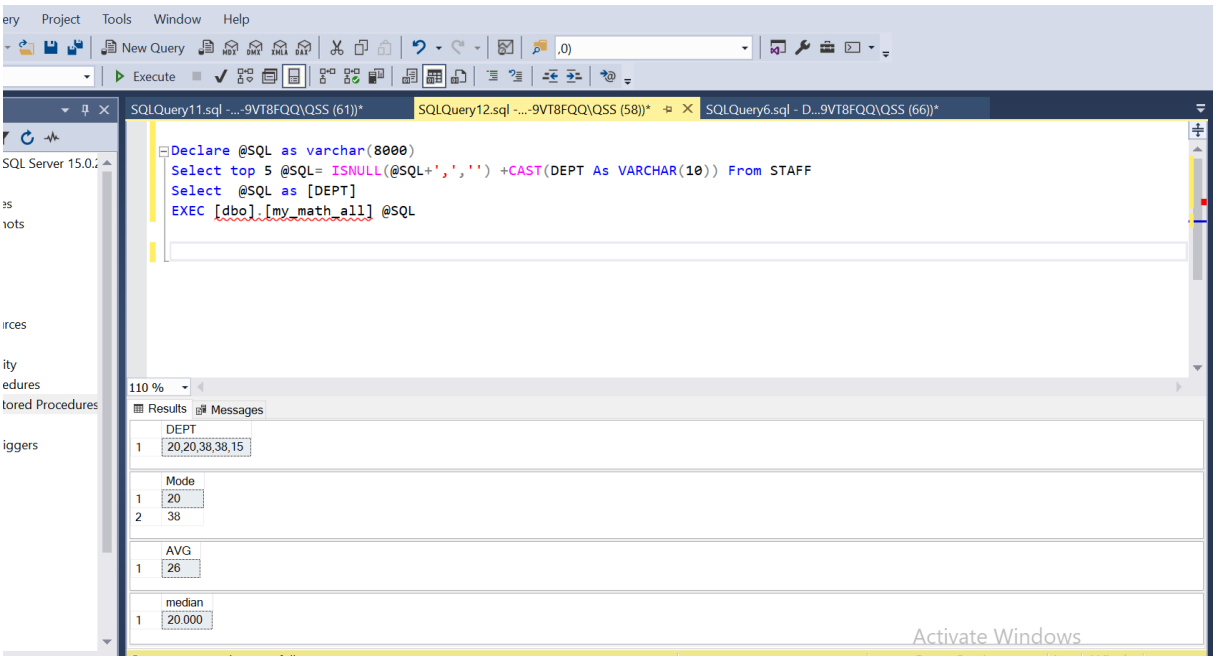
4. my_math_all

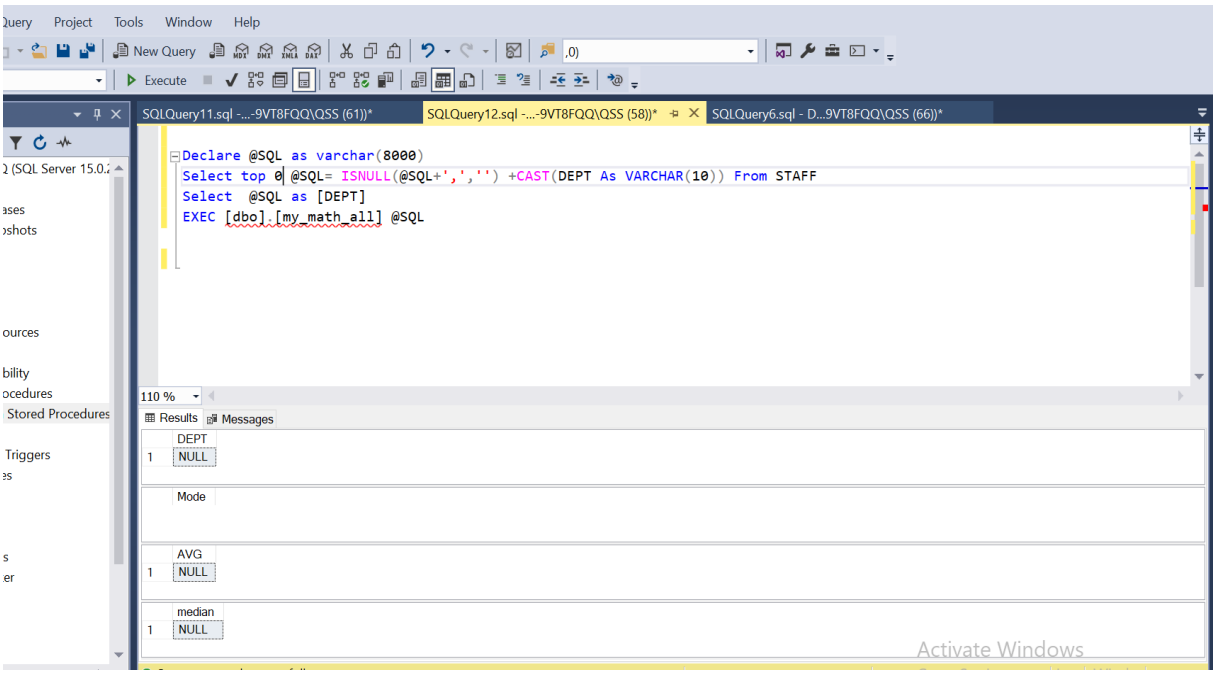
Write a procedure called *my_math_all* which takes the values in a column (like department or salary) as input and will output the mathematical median, mode and mean of the values in that column.



my_math_all



A list which shows a median, mode and mean (average)



An Empty List