COURSE: CS/DSA-4513 - DATABASE MANAGEMENT

SECTION: 001

SEMESTER: FALL 2021 INSTRUCTOR: Dr. Le Gruenwald

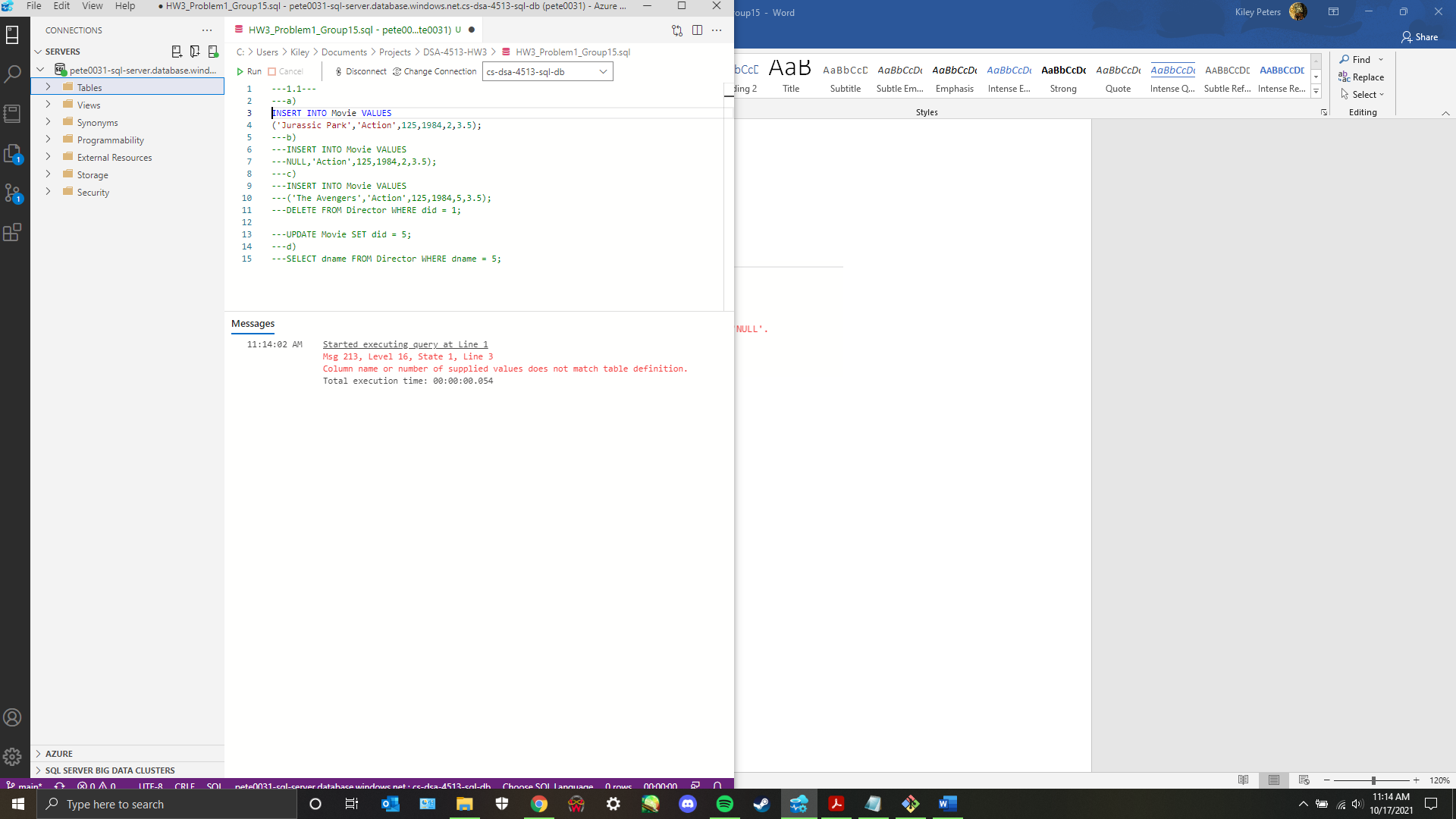
GRADED HOMEWORK NUMBER: 3 GROUP NUMBER: 15

GROUP MEMBERS: Chanon Cserepy, Kiley Peters, Tyler Sanbar, Benjamin Xia

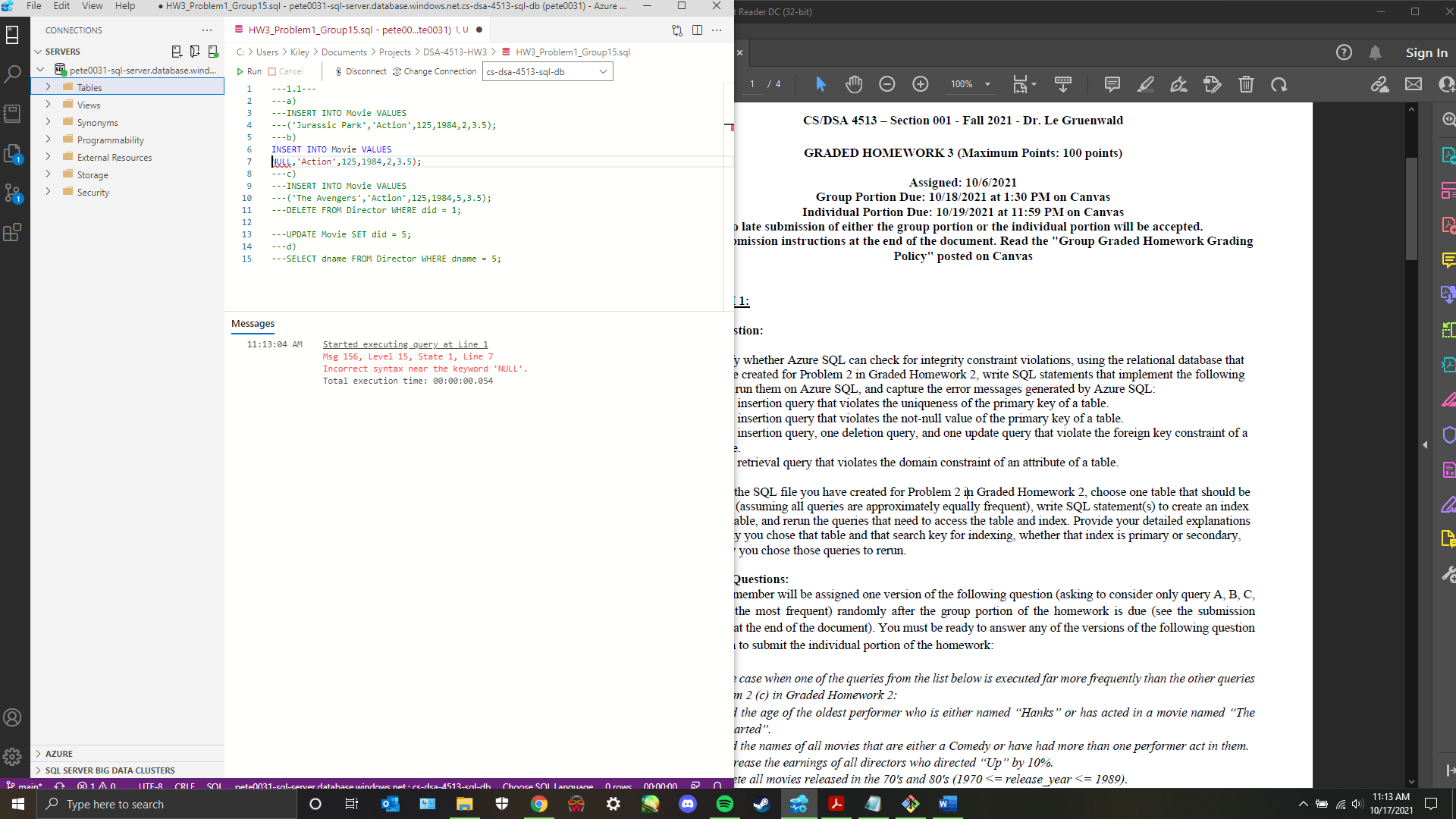
SCORE:

# 1.1

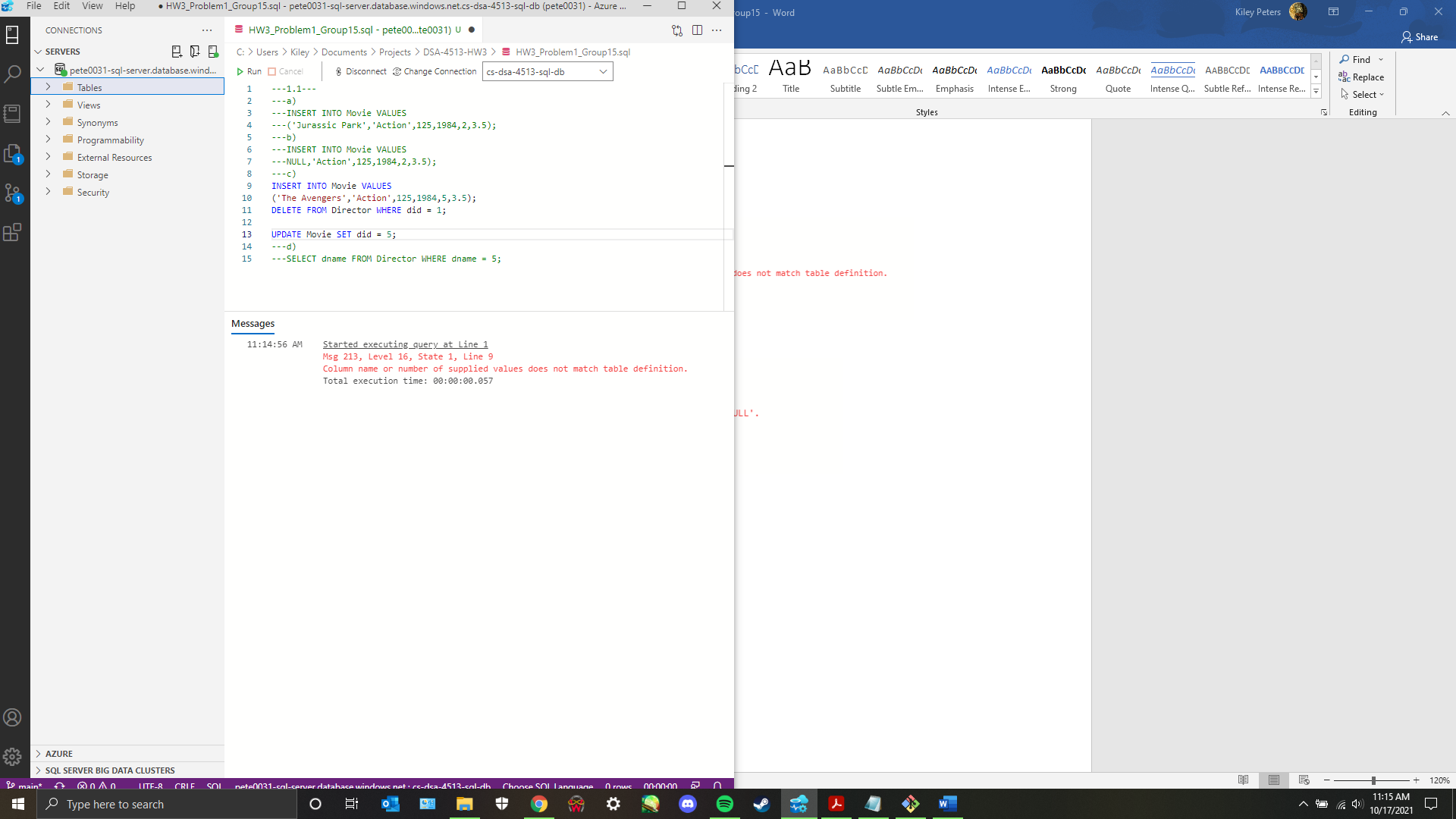
a



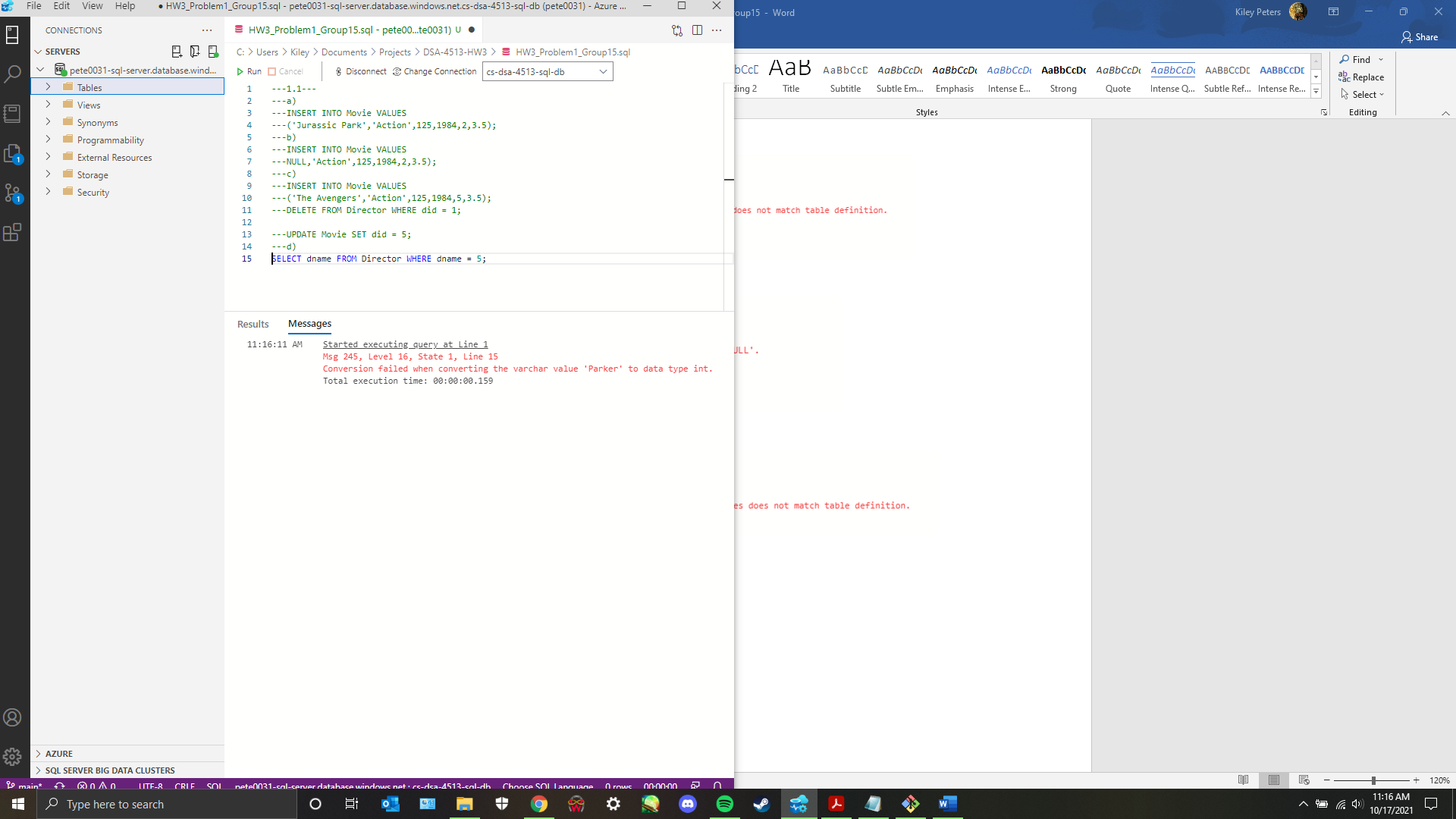
b



c



d



# 1.2

We chose the director id in the movies table as our search key for indexing as a secondary index. The movies table has the most attributes of all of the tables in our database. This would allow us to see the data sorted by the director id and easily see which directors are associated to each movie. Therefore, an index for movies would benefit in searching on our database. Below is a screenshot for creation of the index.



We re-ran the following query since it includes the did attribute under Movie.

UPDATE Director SET earnings = earnings \* 0.9 WHERE did = (SELECT did FROM Movie WITH(INDEX(index\_did)) WHERE mname = 'Up');

These are the results.

Table

Description automatically generated