Unit 03 Problem Set Submission Form

Overview

Your Name	Jainish Savaliya
Your SU Email	jsavaliy@syr.edu

Instructions

Put your name and SU email at the top. Answer these questions all from the lab. When asked to include screenshots, please follow the screen shot guidelines from the first lab.

Remember as you complete the problem sets it is not only about getting it right / correct. We will discuss the answers in class so it's important to articulate anything you would like to contribute to the discussion in your answer:

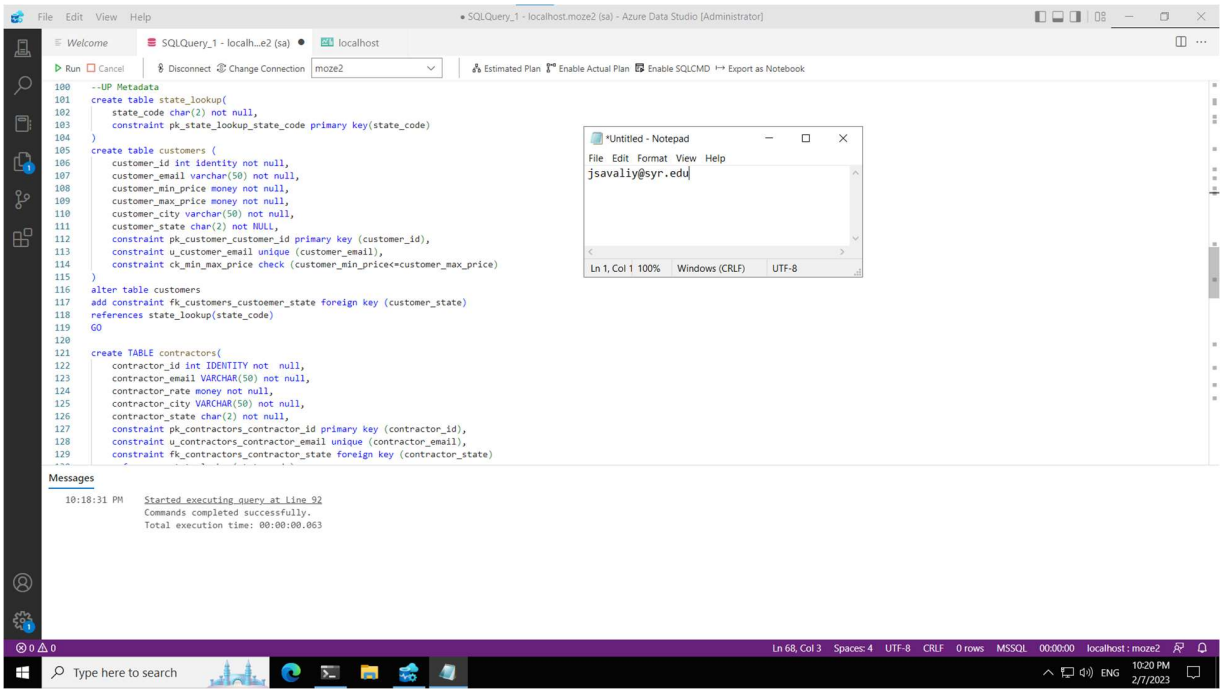
- If you feel the question is vague, include any assumptions you've made.
- If you feel the answer requires interpretation or justification provide it.
- If you do not know the answer to the question, articulate what you tried and how you are stuck.

This how you receive credit for answering questions which might not be correct.

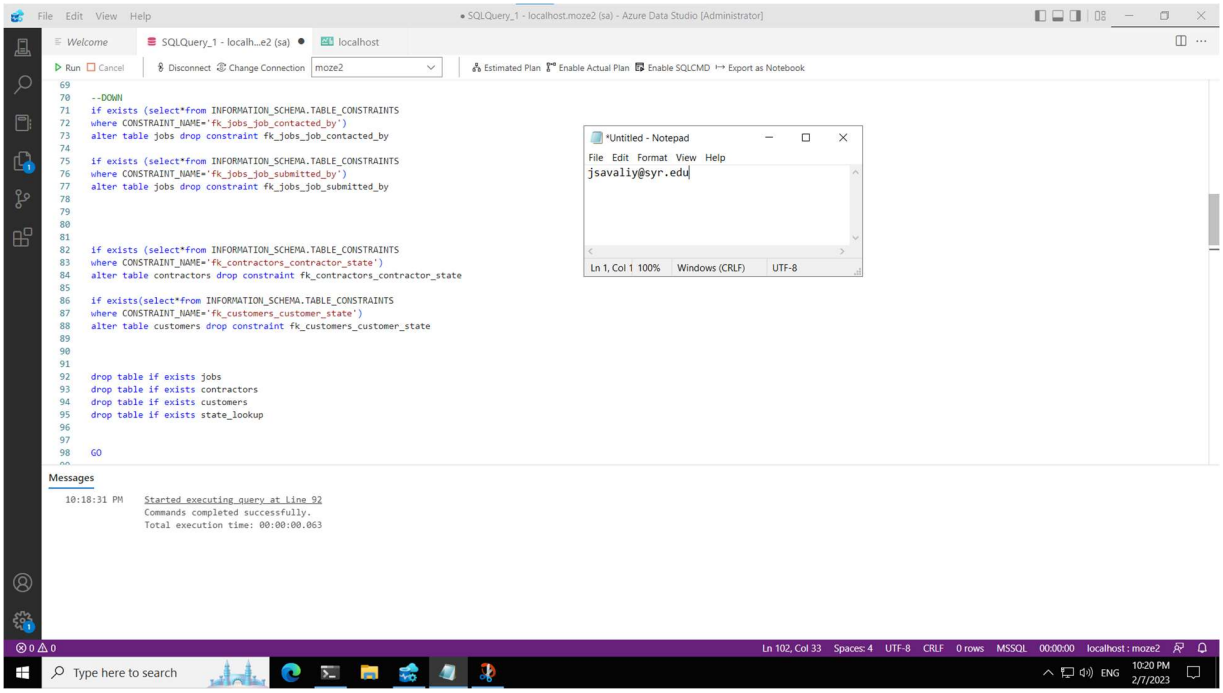
Questions

Answer these questions using the problem set submission template. You will need to consult the logical model in the overview section for details. For any screenshots provided, please follow the guidelines for submitting a screenshot.

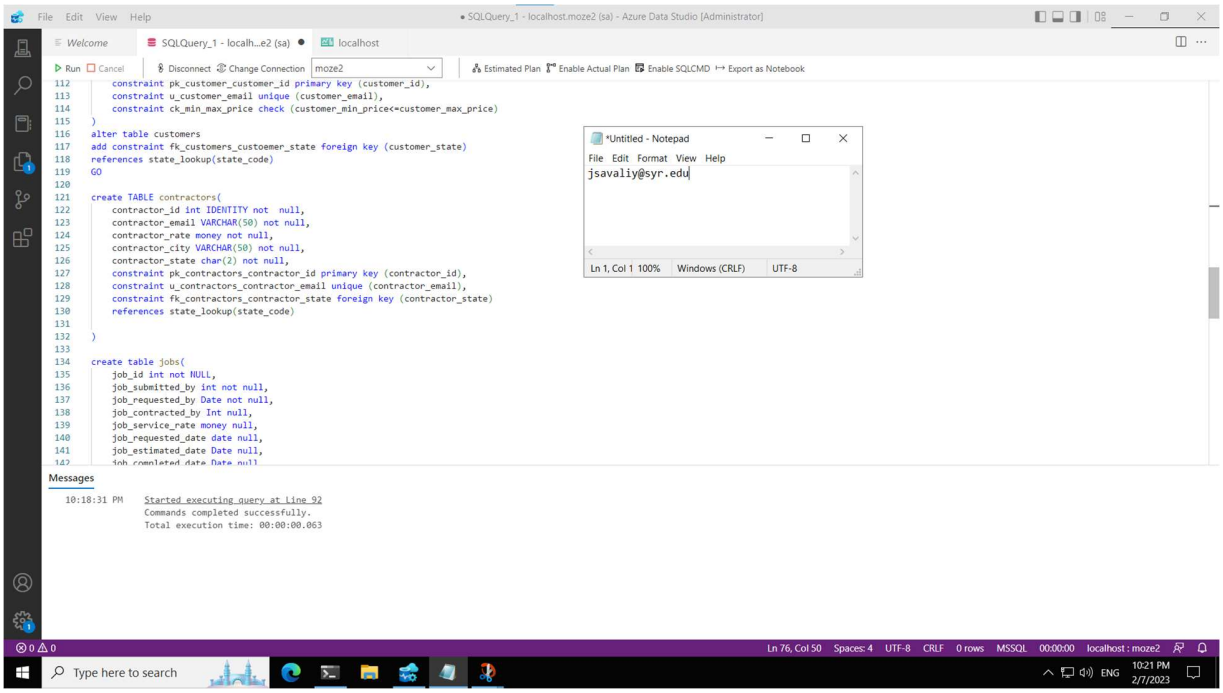
1. Add the **contractors** table as defined in the overview section to your SQL script at the bottom of your --UP Metadata section. Include columns, indexes (pk/unique) in the create table statement. Provide a screenshot of the SQL code.



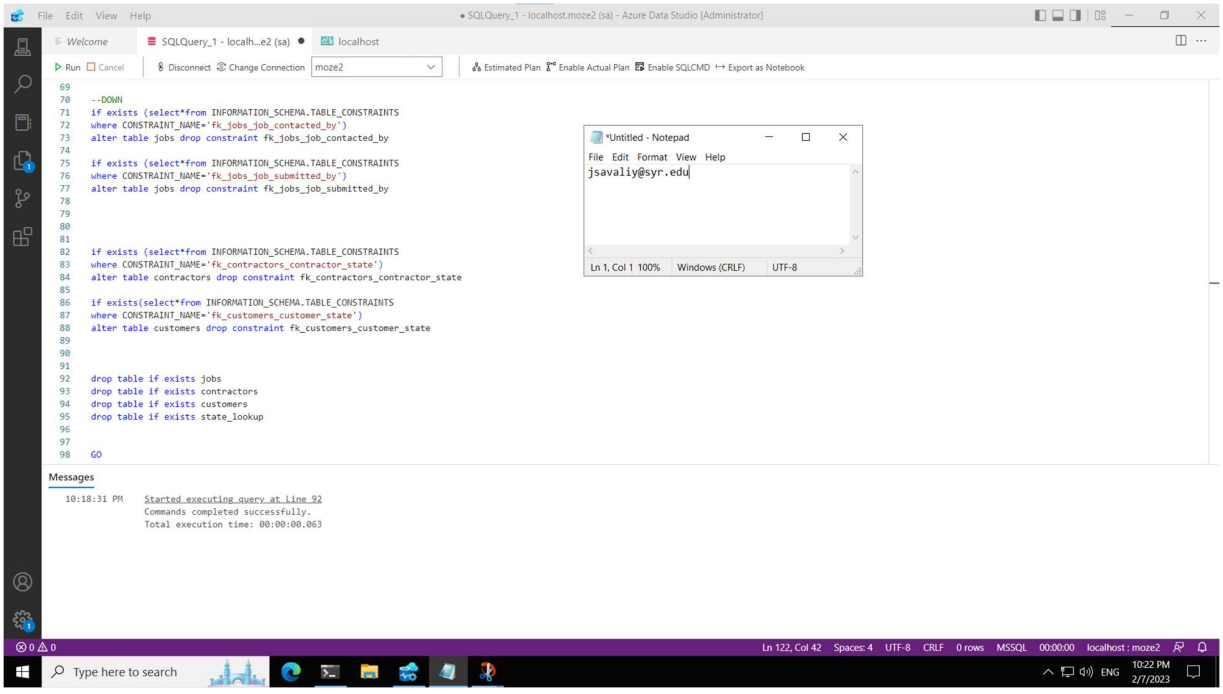
2. Add the reverse command to the --DOWN section of your SQL script, dropping the table. Provide a screenshot of the code.



3. Alter the **contractors** table adding a foreign key over the **contractor_state** column, **fk_contractors_contractor_state.** Add it to the --UP Metadata portion of the script. Provide a screenshot of the SQL code.



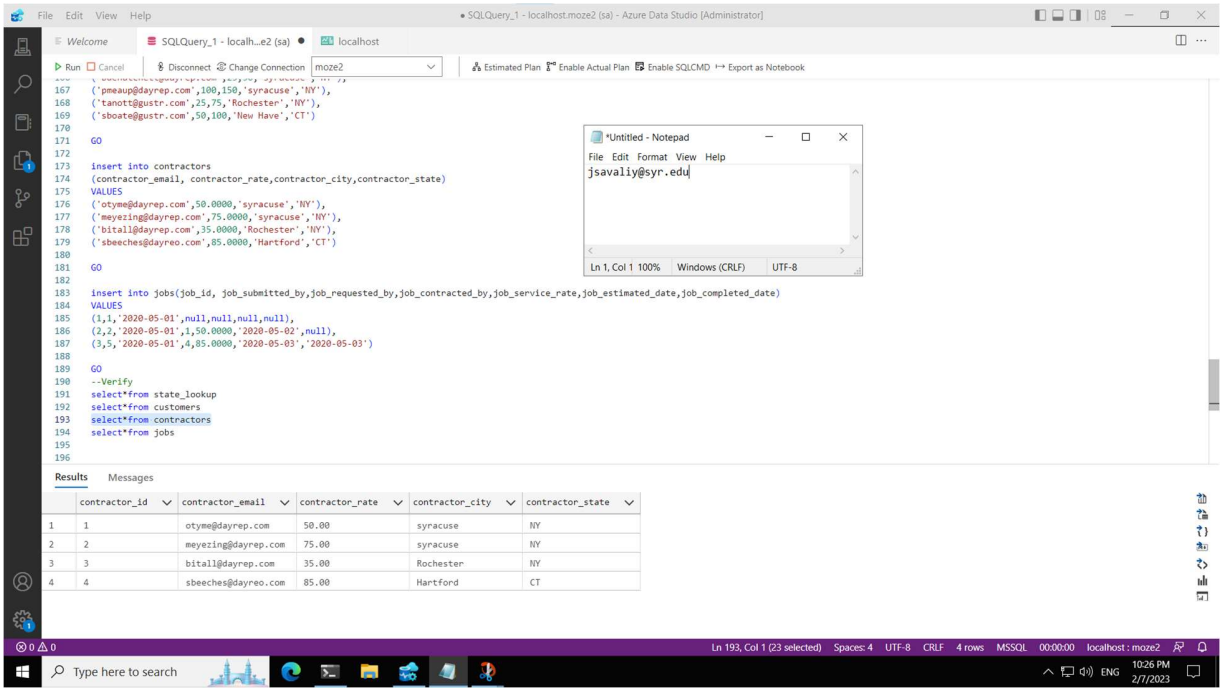
4. Add the reverse command to the DOWN section of your SQL script, dropping the foreign key. It should be a soft delete as with the other foreign key in the walkthrough. Provide a screenshot of the code.



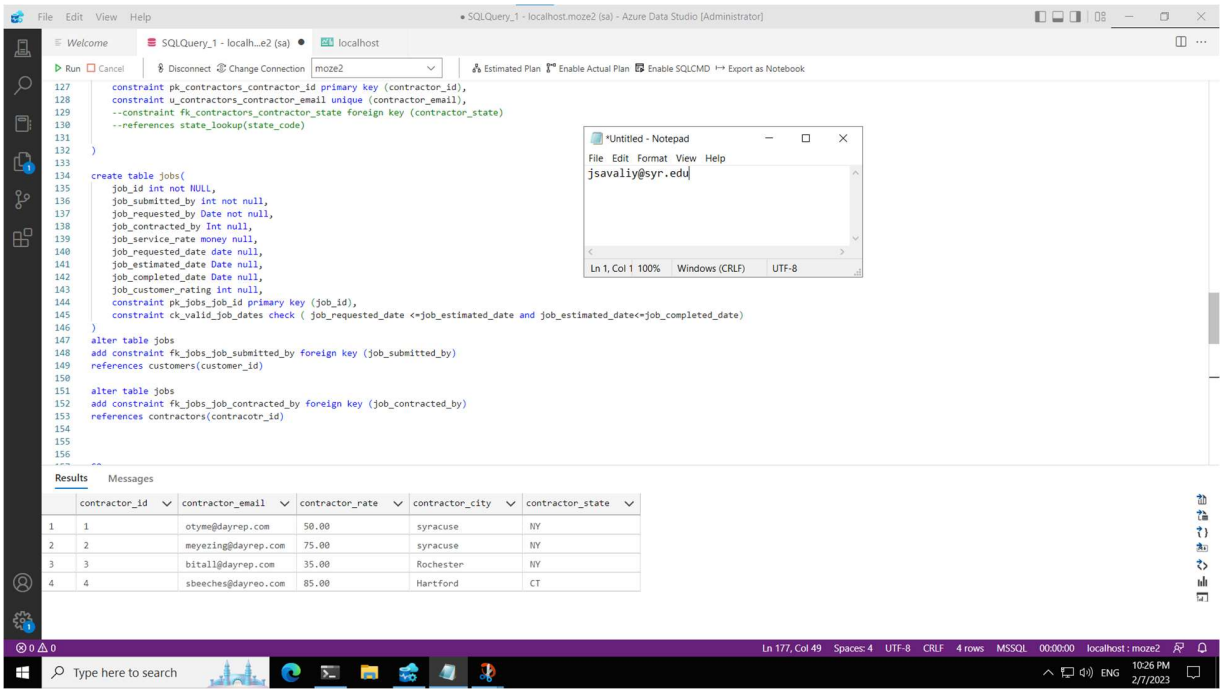
5. At the bottom of the --UP Data section, insert the following contractor data.

contractor_email	contractor_rate	contractor_city	contractor_state
otyme@dayrep.com	50.0000	Syracuse	NY
meyezing@dayrep.com	75.0000	Syracuse	NY
bitall@dayrep.com	35.0000	Rochester	NY
sbeeches@dayrep.com	85.0000	Hartford	CT

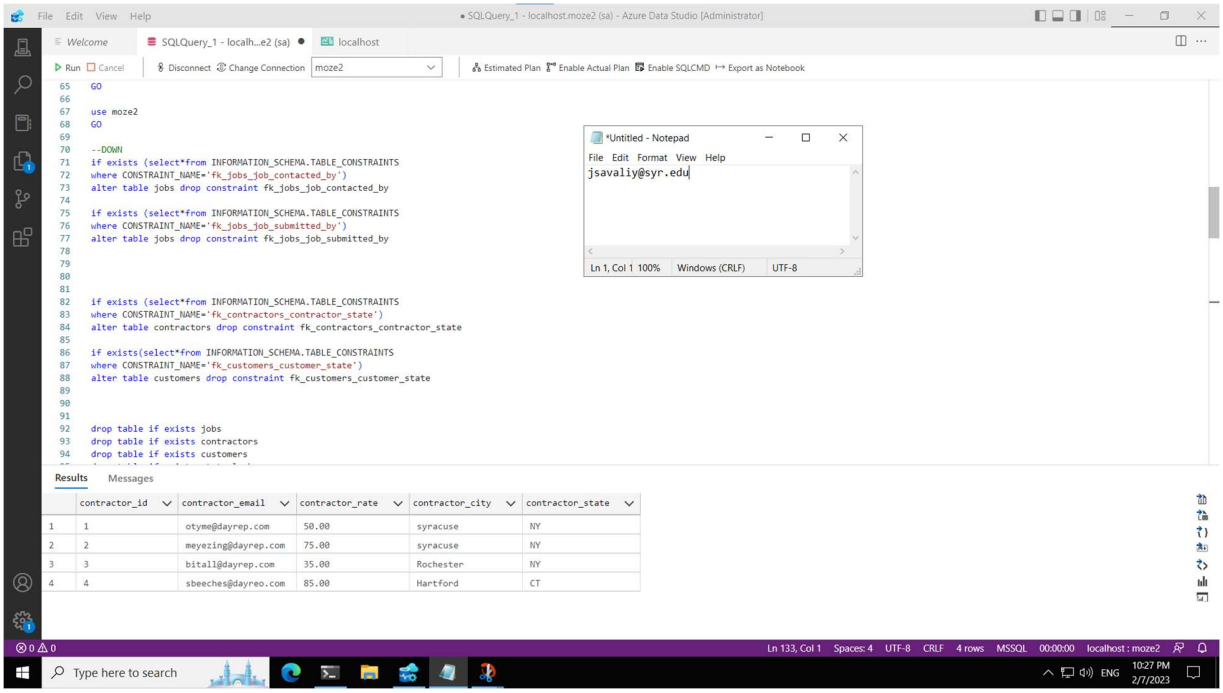
Add a select statement to the –Verify section. Provide evidence your script works to this point by including a screenshot of the table outputs.



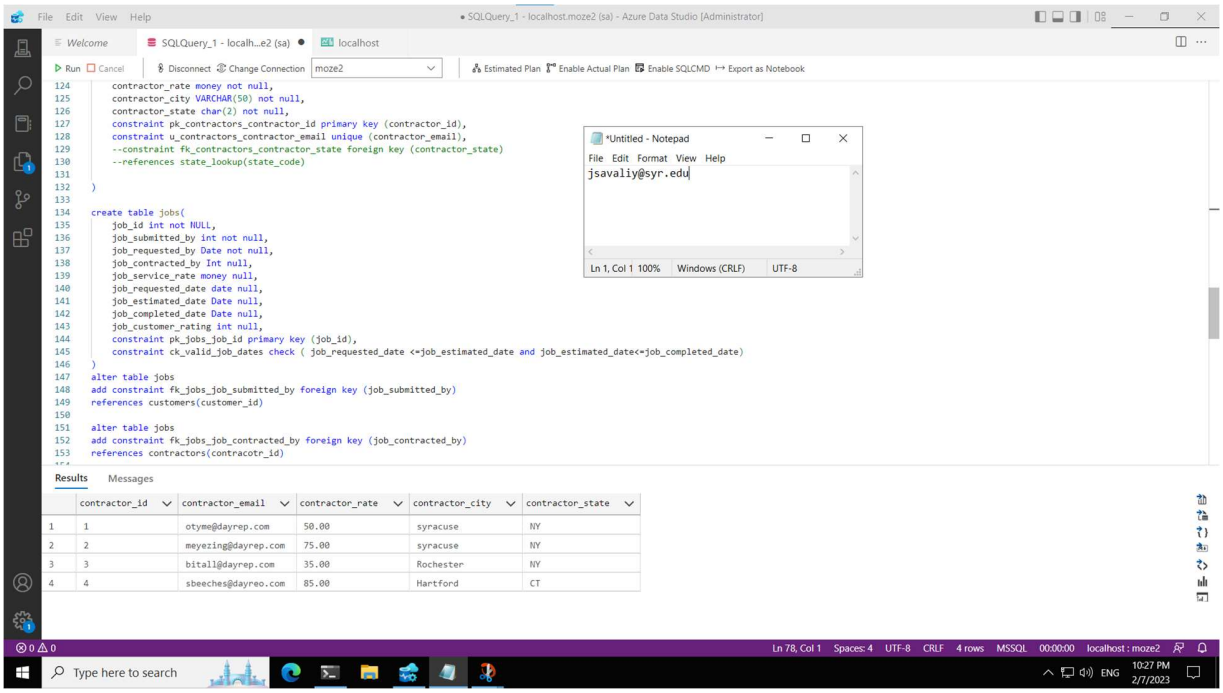
6. Create the **jobs table** with pk and check constraints. Add it to the appropriate section of the script and provide a screenshot of the SQL code.



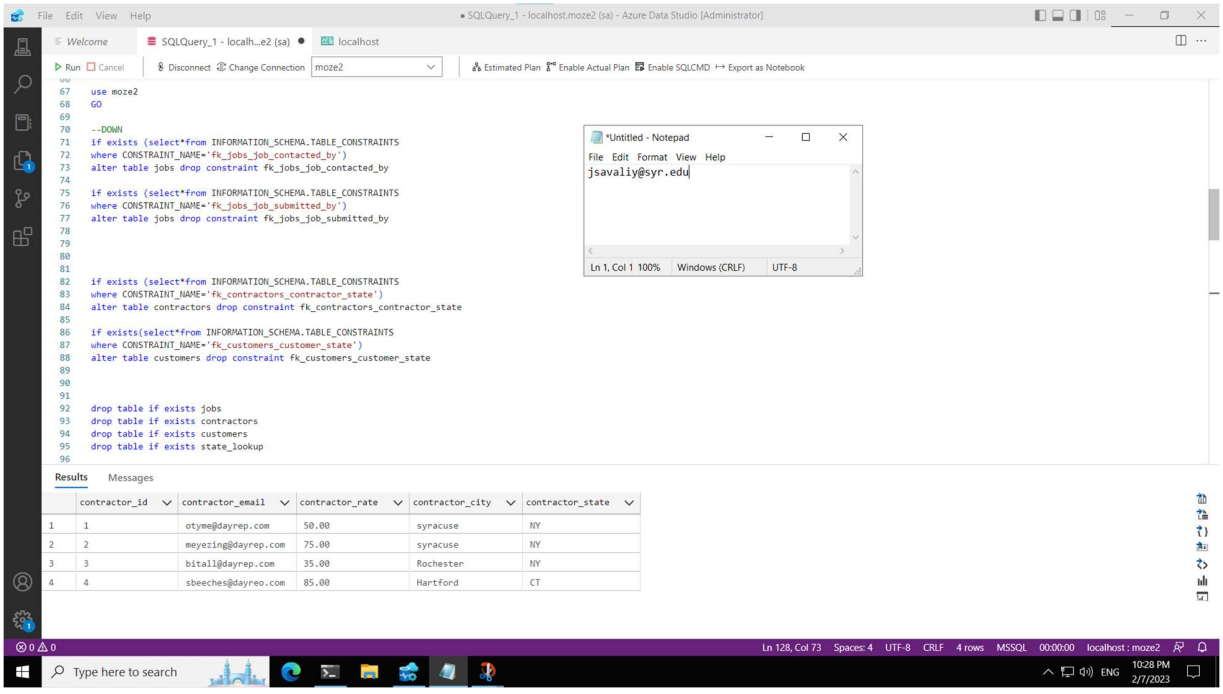
7. Add the drop table statement for the **jobs table**, add it to the appropriate section of the script and provide a screenshot of the SQL code.



8. Add the two foreign key constraints to the **jobs table.** Add it to the appropriate section of the script and provide a screenshot of the SQL code.



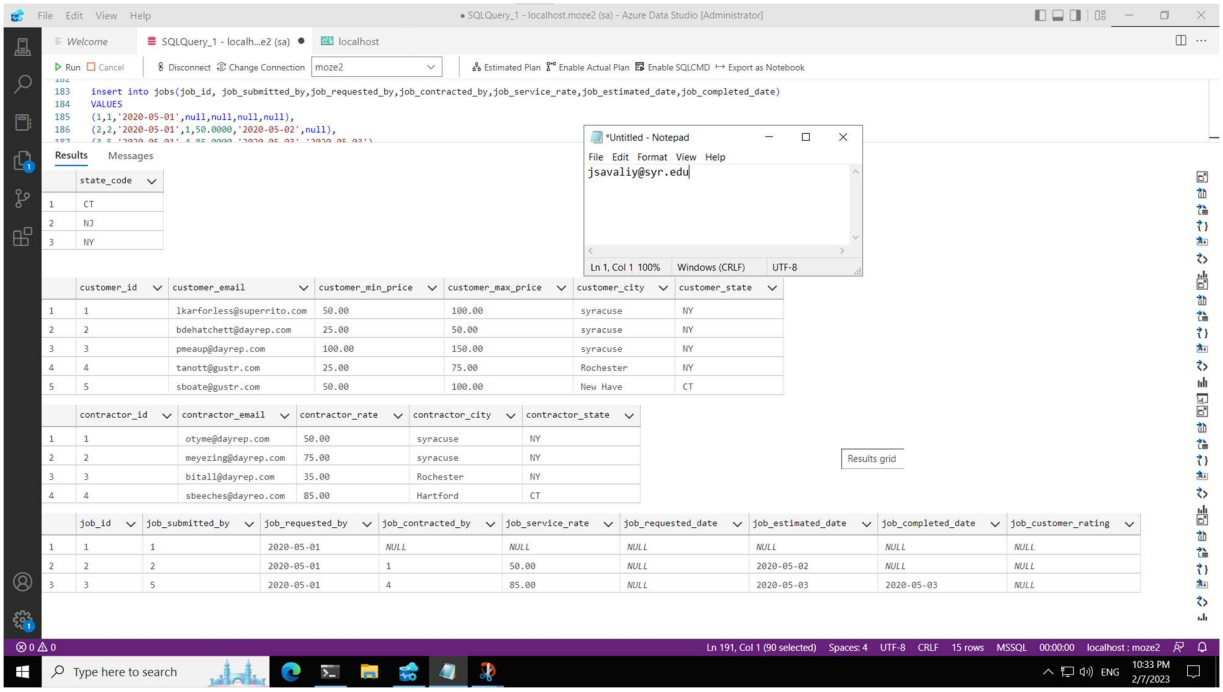
9. Add code to softly remove the foreign key constraints from the **jobs** table. (should be two separate checks for drops). Add it to the appropriate section of the script and provide a screenshot of the SQL code.



10. Write SQL code to insert the following jobs to the **jobs table**.

job_submitted_by	job_requested_date	job_contracted_by	job_service_rate	job_estimated_date	job_completed_date
1	2020-05-01	*NULL*	*NULL*	*NULL*	*NULL*
2	2020-05-01	1	50.0000	2020-05-02	*NULL*
5	2020-05-01	4	85.0000	2020-05-03	2020-05-03

Provide evidence the entire script works by including a screenshot off all 4 tables with data in them.



Reflection

Use this section to reflect on your learning. To achieve the highest grade on the assignment you must be as descriptive and personal as possible with your reflection.

1. What are the key things you learned through the process of completing this assignment?
   ➔ **I learned about data base integrity and all the constraints like primary key constraint , foreign key constraint etc.**

2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?
   -> At times, I needed clarification, so I watched the videos again and went through the tutorial.

3. Were you prepared for this assignment? What can you do to be better prepared?
   -> Yes, I should have watched the video again as some of the concepts are a little unclear.

4. Now that you have completed the assignment rate your comfort level with this week's material. This should be an honest assessment: (choose one)

4 ==> I understand this material and can explain it to others.