

Unit 02 Problem Set Submission Form

Overview

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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:

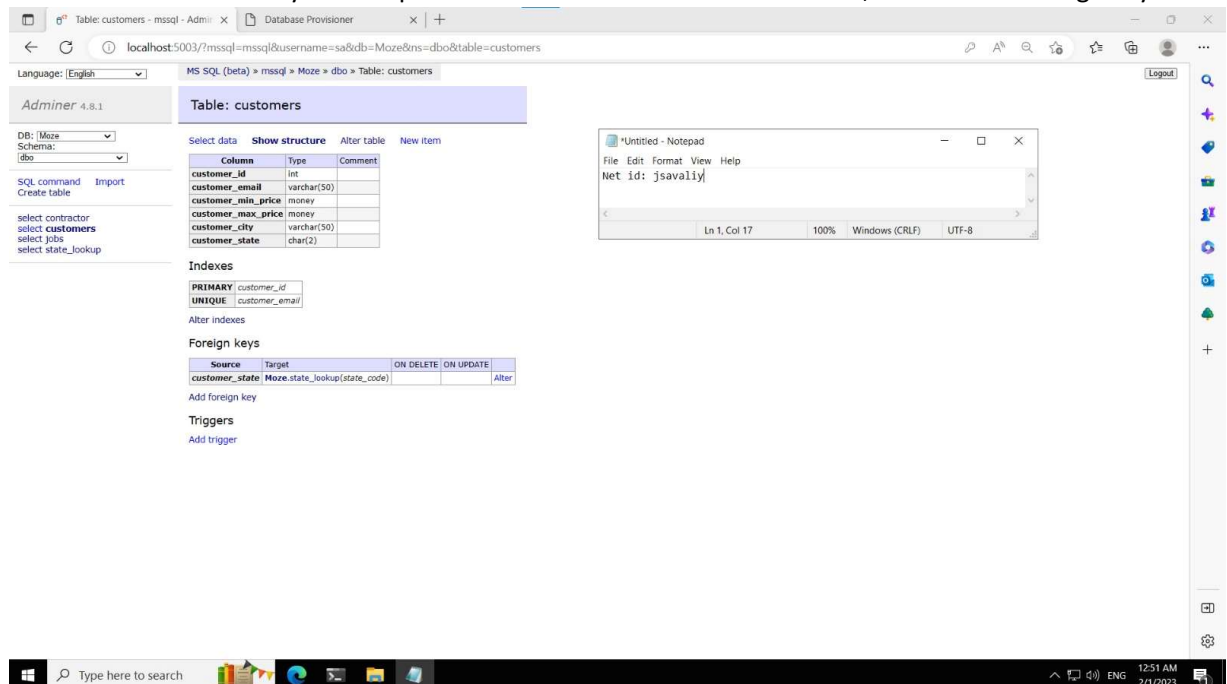
- If you feel the question is vague, include any assumptions you've made.
- If you feel the answer requires interpretation or justification provide it.
- If you do not know the answer to the question, articulate what you tried and how you are stuck.

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

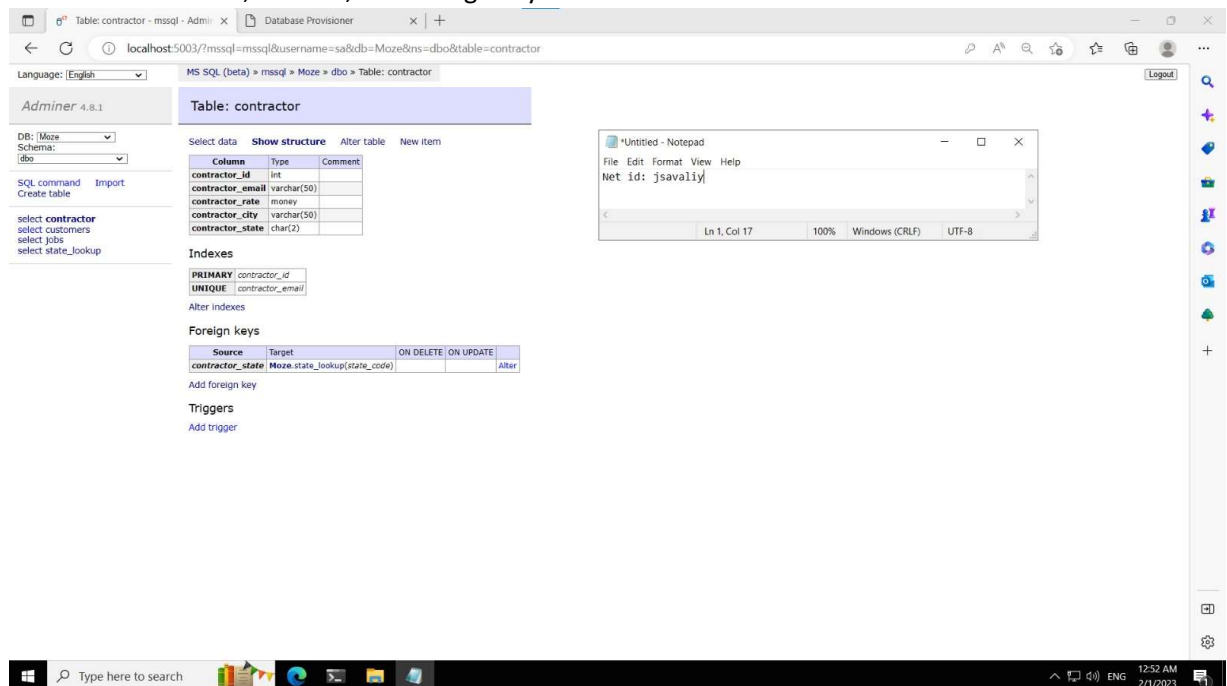
Questions

1. Does a table consist of data or metadata? Explain.
-> The table contains both data and metadata. As a table has structure, labels, and domain - this is considered Metadata - and we do entries - this is considered Data.
2. Describe what happens when you attempt to insert 200 characters into a column with a data type of varchar (50)?
-> It will not work since the data type of varchar is 50 and it will only take the first 50 characters.
3. How do we enforce entity integrity over a table which uses a surrogate primary key?
-> We maintain entity integrity over a table by applying unique constraints to one of the keys

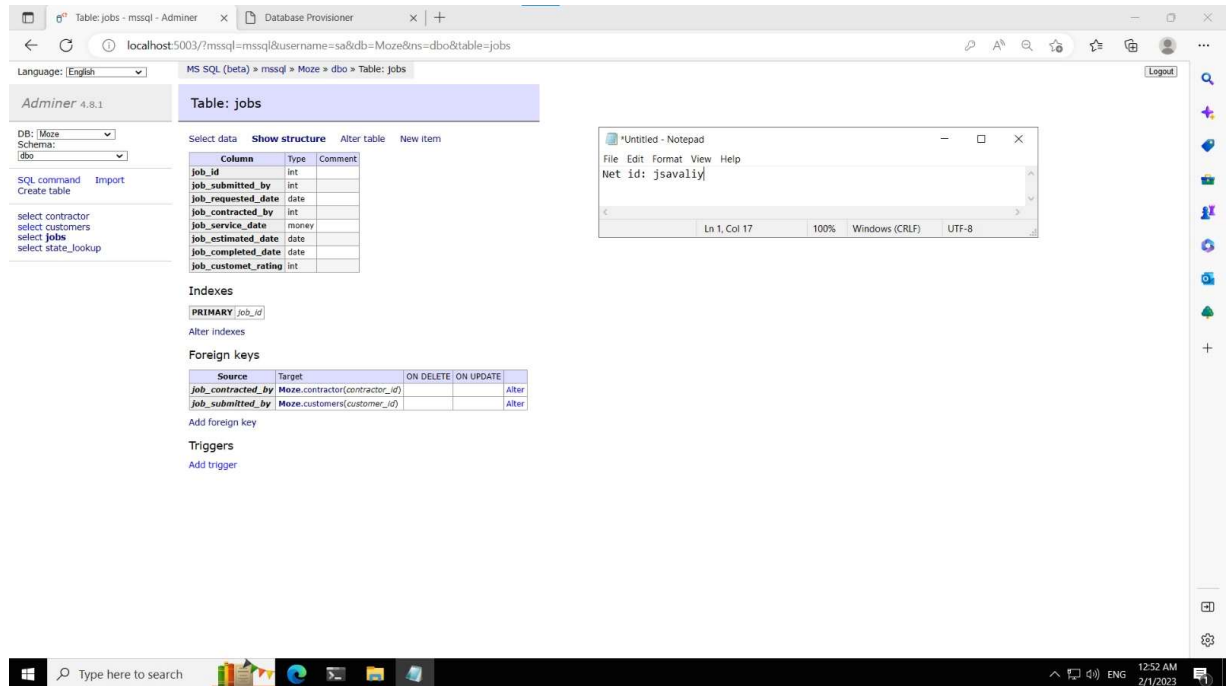
4. Provide a screenshot of your completed **customers** table include columns, indexes and foreign keys.



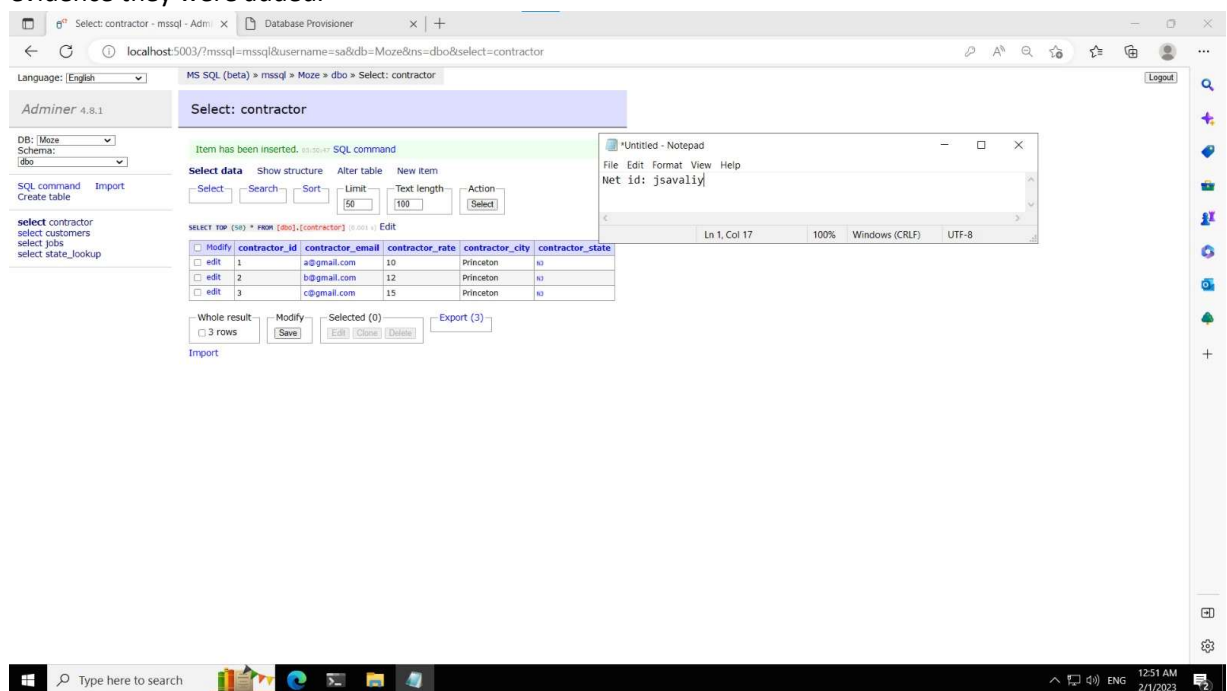
5. Implement the **contractors** table as defined in the overview section. Include columns, indexes (pk/unique) and foreign keys. Provide a screenshot of the table structure screen in Adminer and include the columns, indexes, and foreign keys sections.



6. Implement the **jobs** table as defined in the overview section. Include columns, indexes (pk/unique) and foreign keys. Provide a screenshot of the table structure screen in Adminer and include the columns, indexes, and foreign keys sections.



7. Add 3 contractors to the **contractors** table and provide a screenshot of the Select data screen as evidence they were added.



8. Can you add two contractors with the same email address? Explain.
 ➔ We are unable to add two contractors with the same email address due to unique limits.
9. Can you add a contractor from the state of MA? Explain.

- ➔ -No, I cannot add a contractor since it was not found in the state lookup database, and in this situation, referential integrity will not be met.

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?
->Practically learned about the primary key and foreign key and how to utilize them in a table. Created many tables and connected them using foreign keys. Discovered how to insert data into a table.
2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?
->Some questions are difficult to comprehend because they are complicated, and we must first understand the underlying notion before we can execute it effectively.
3. Were you prepared for this assignment? What can you do to be better prepared?
->- Yes, I have prepared, but this project has made me prepare even more; certain basic ideas of mine are still unclear since I have just read about them; nevertheless, when I did it practically, many concepts were apparent, so I will attempt to do it practically again.
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.