Unit 02 Problem Set Submission Form

Overview

Your Name	Bhavya Shah
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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.

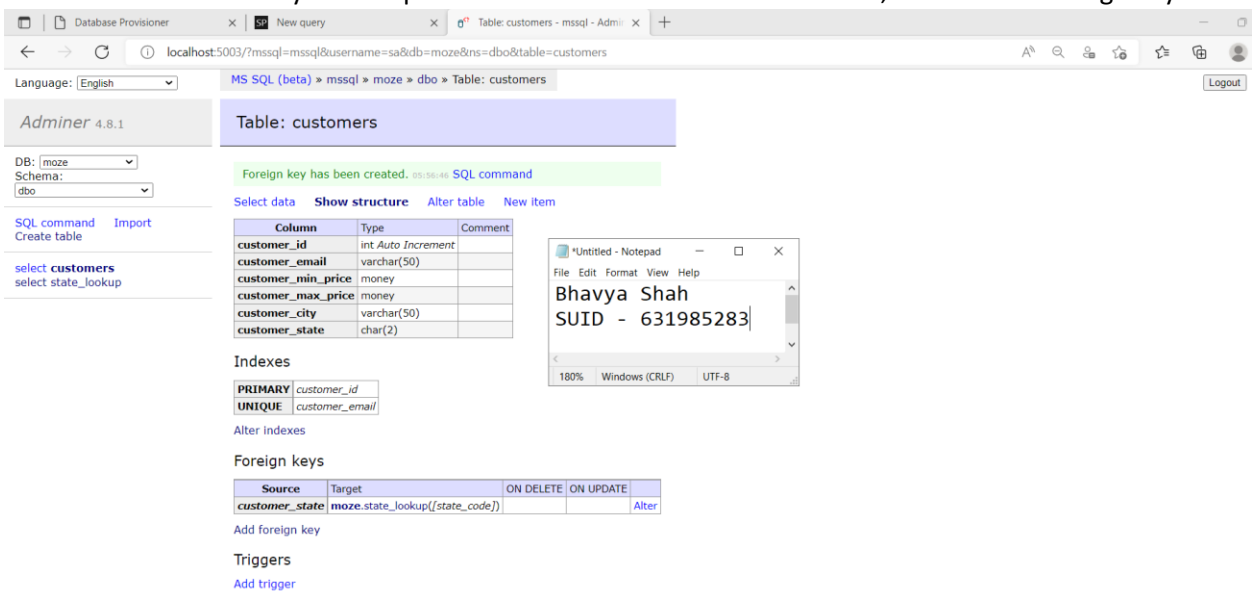
Questions

1. Does a table consist of data or metadata? Explain.
   Ans - The table consists of both. The column headers are metadata and the information under it are data.

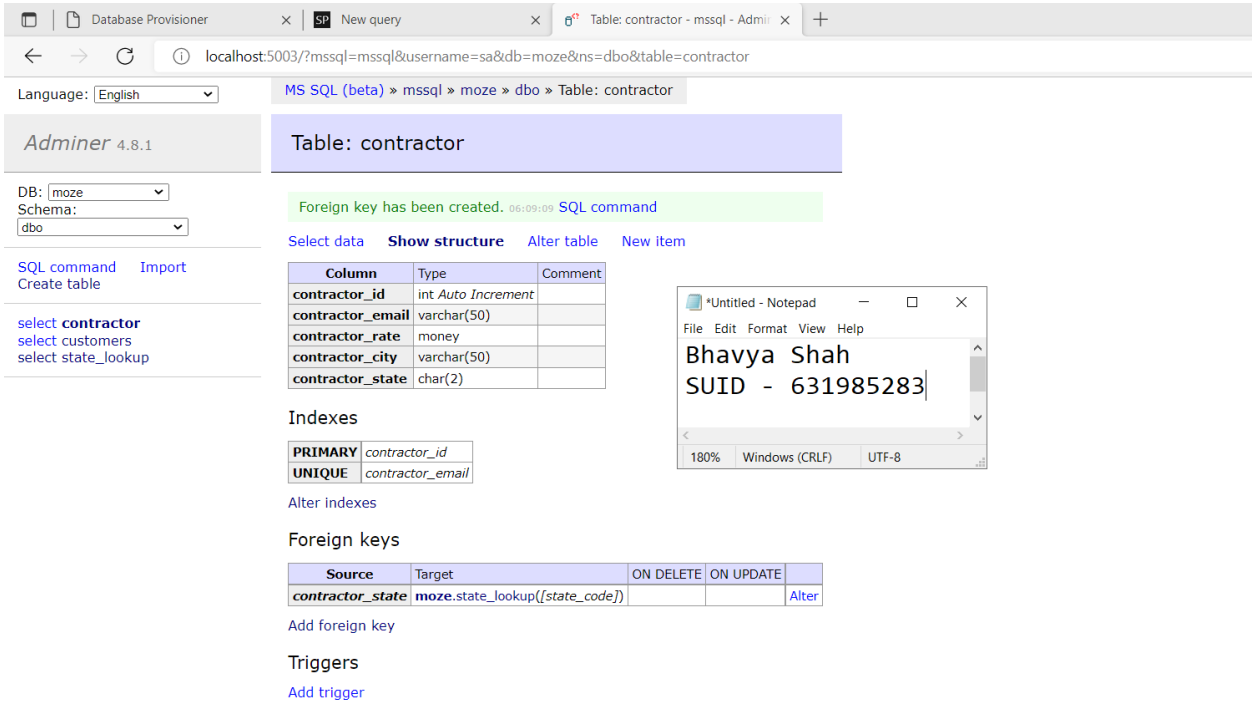
2. Describe what happens when you attempt to insert 200 characters into a column with a data type of varchar (50)?
   Ans – The table would not store 200 characters into a column, it will store only the first 50 characters.

3. How do we enforce entity integrity over a table which uses a surrogate primary key?
   Ans – We enforce entity integrity over a table which uses a surrogate primary key by introducing a candidate key.

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

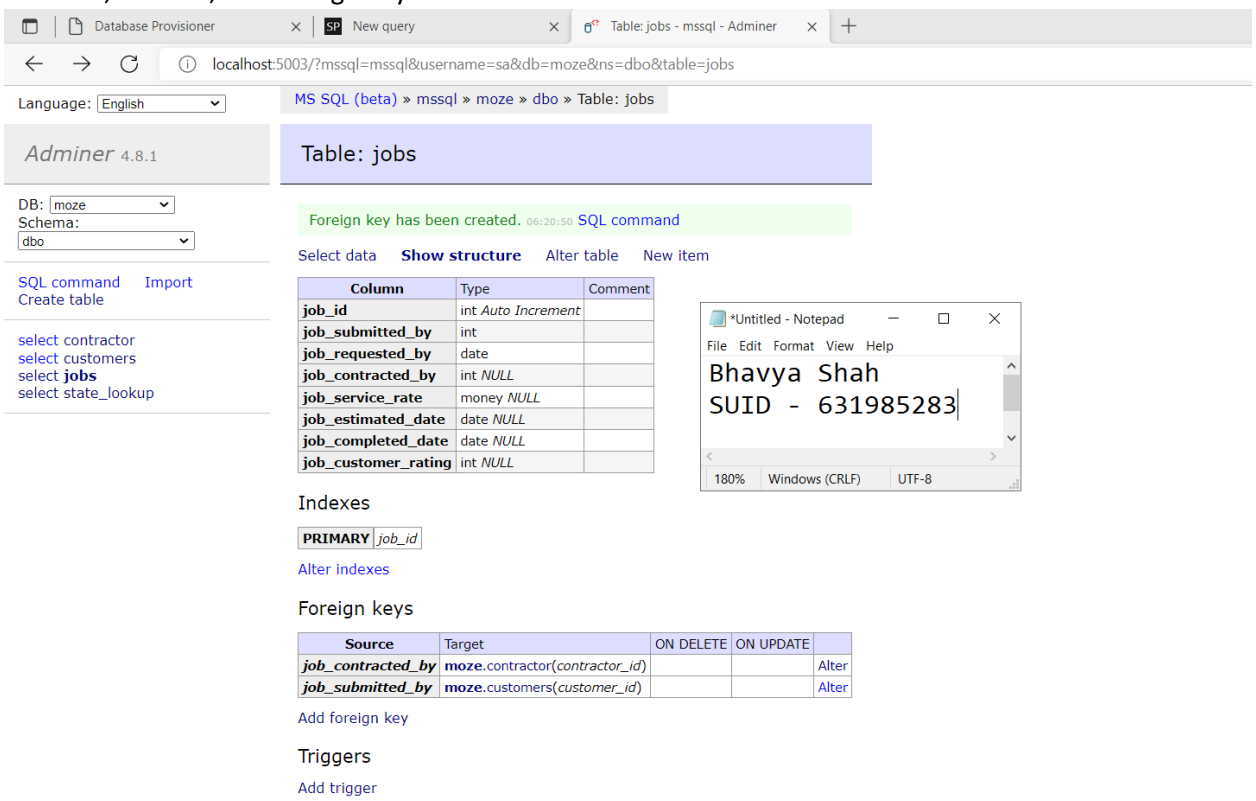


5. Implement the **contractors** table as defined in the overview section. Include columns, indexes (pk/unique) and foreign keys. Provide a screenshot of the table structure screen in Adminer and include the columns, indexes, and foreign keys sections.

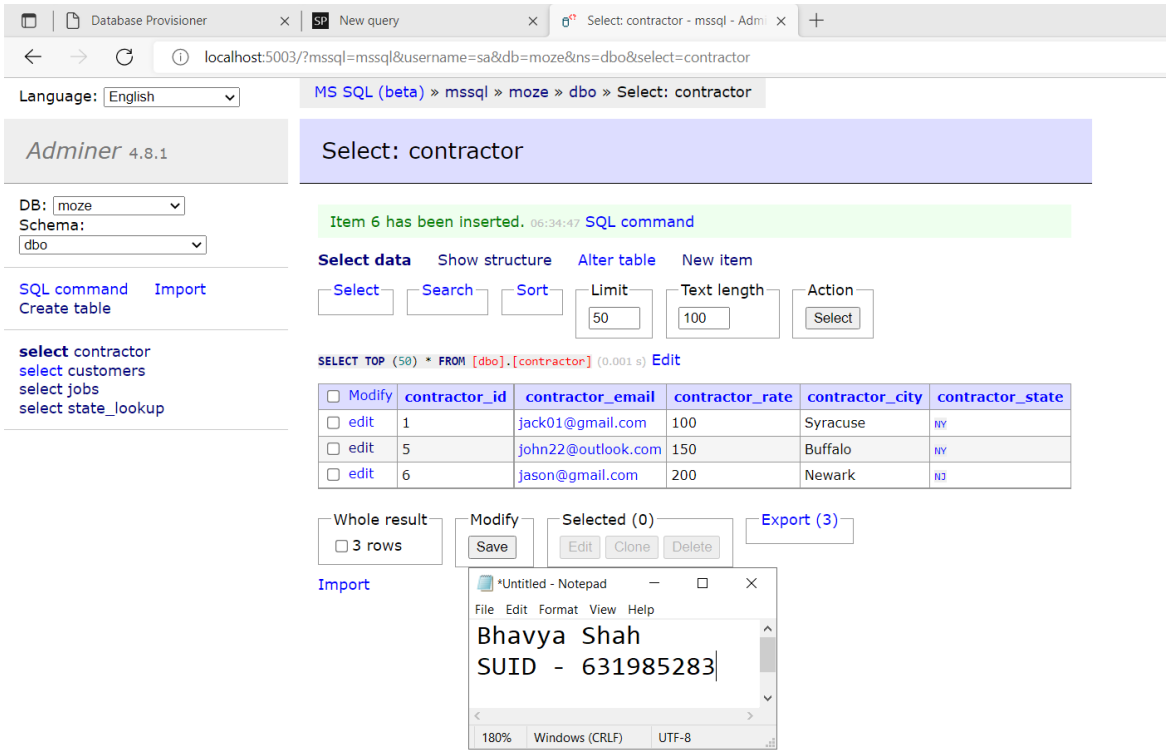


6. Implement the **jobs** table as defined in the overview section. Include columns, indexes (pk/unique) and foreign keys. Provide a screenshot of the table structure screen in Adminer and include the

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.
   Ans – No, because email is a unique entity.

9. Can you add a contractor from the state of MA? Explain.

   Ans – No, we cannot because we have not inserted MA as a state option in the state_lookup under state_code. So it would not be valid.

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?
   Ans – I learned to create tables and assign constraints as primary and foreign keys. Connecting multiple tables via foreign key.

2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?
   Ans- The challenge was to validate the dates in the jobs table.

3. Were you prepared for this assignment? What can you do to be better prepared?
   Ans – I was almost prepared for this assignment, Professor Fudge's videos explained in details about using adminer and how to use it.

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.
   3 ==> I understand this material.
   2 ==> I somewhat understand the material but sometimes need guidance from others.
   1 ==> I understand very little of this material and need extra help.