Unit 02 Problem Set Submission Form

# Overview

|  |  |
| --- | --- |
| Your Name | Vinay Kumar Chandra |
| Your SU Email | vchand03@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

1. Does a table consist of data or metadata? Explain.

The table has only metadata because we haven’t added any rows and the column names and the type of data is known as Data of Data, which is called as metadata

1. Describe what happens when you attempt to insert 200 characters into a column with a data type of varchar (50)?

When you attempt to insert 200 characters into a column with a data type of varchar (50) it cuts down the length to first 50 characters Automatically without showing any error.

1. How do we enforce entity integrity over a table which uses a surrogate primary key?

By creating a unique constraint with a natural key, we enforce entity integrity over a table which uses a surrogate primary key

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

A screenshot of a computer

Description automatically generated

1. 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.

A screenshot of a computer

Description automatically generated

1. 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.

A screenshot of a computer

Description automatically generated

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

A screenshot of a computer

Description automatically generated

1. Can you add two contractors with the same email address? Explain.

No, we can’t add 2 contractors with same email address because contractors email id is set as a unique constraint and when you try to add 2 contractors with same email address it throws an error which says” **Cannot insert duplicate key row in object 'dbo.contractor' with unique index 'u\_contractor\_contractor\_email'** ”

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

No, we can’t add a contractor from state of MA because we have restricted the states to CT, NY, NJ, and PA by creating a lookup table for state code and when you try adding a state of MA it throws an error which says “**The INSERT statement conflicted with the FOREIGN KEY constraint "FK\_\_contracto\_\_contr\_\_4AB81AF0". The conflict occurred in database "moze", table "dbo.state\_lookup", column 'state\_code'.** “

# 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 learnt how to create a database, how to add columns, and how to create unique constraints, check constrains and also how to add the data into the table

1. What were the challenges or roadblocks (if any) you encountered on the way to completing it?

I didn’t face any challenges while doing this assignment

1. Were you prepared for this assignment? What can you do to be better prepared?

Yes, I was prepared for this assignment

1. 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.