Problem Set Submission Form

# Overview

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# Instructions

Put your name and SU email at the top. Answer these questions from the lab. When asked to include screenshots, please follow the screen shot guidelines as indicated in 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 is how you receive credit for answering questions which might not be correct.

# Questions From Lab to Be Answered:

1. Use docker-compose to start the containers. What is the command you typed to do this?
   1. I ran the following code, docker-compose up -d
2. What is the command to show the running docker containers?
   1. I ran the following code, docker-compose ps
3. Provide a screenshot displaying evidence your containers are running (the output of the previous question should suffice).
   1. Graphical user interface, text

      Description automatically generated
4. Provision all the databases included in the Database provisioner application. Provide a screenshot as evidence they have been provisioned. Note: This might take some time so be patient!
   1. Graphical user interface, text

      Description automatically generated
5. Connect to MS SQL Server using azure data studio and provide a screenshot of the databases under the connection. This will provide evidence your connection works and your databases were provisioned.
   1. Graphical user interface, application

      Description automatically generated
6. Connect to MS SQL server using SQL Pad. Specifically connect to the **payroll** database and then run this query: select \* from department\_lookup. Include a screenshot of the query and output.
   1. Graphical user interface, text

      Description automatically generated
7. Connect to MS SQL server using Adminer, again connect to the **payroll** database. Include a screenshot of the structure of the **employees** table.
   1. Table

      Description automatically generated
8. What is the command to shut down the running docker containers?
   1. The command I ran to shut down the docker containers was, docker-compose down
9. Provide a screenshot displaying evidence your containers are no longer running (the output of the previous question should suffice).
   1. Graphical user interface, text, application, chat or text message

      Description automatically generated

# 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?

One of the key things I learned during this assignment was how you can view the schema or structure of a table within a database. For example for question 7, I used adminer to connect to the payroll DB and was able to look at the structure of the employees table (see the field names, data types, primary/foreign key to use for Joins). I believe this will be a key step for me moving forward (to view the structure of a table before running a query).

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

One challenge I faced was the inability to provision the databases locally. After trying multiple courses of action, I reached out to the Primary instructor for his recommendations. Ultimately, I used the VM provided by the university to complete the assignment.

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

I believe I was adequately prepared for this assignment. I think what I can do better moving forward is reviewing my notes and lecture slides prior to starting an 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)  
     
   3 ==> I understand this material.