Unit 01 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. Use docker-compose to start the containers. What is the command you typed to do this?  
   docker-compose up -d
2. What is the command to show the running docker containers?

ps

1. Provide a screenshot displaying evidence your containers are running (the output of the previous question should suffice).  
   A screenshot of a cell phone

   Description automatically generated
2. 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!A screenshot of a cell phone

   Description automatically generated
3. 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.  
   A screenshot of a social media post

   Description automatically generated
4. 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.   
   A screenshot of a social media post

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

A screenshot of a cell phone

Description automatically generated

1. What is the command to shut down the running docker containers?  
   docker-compose stop adminer
2. Provide a screenshot displaying evidence your containers are no longer running (the output of the previous question should suffice).  
   A picture containing sitting, computer, table, phone

   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?  
     
   I learned how to pull up and overlook a certain database in the SQL server using the select\*from command. It made it very easy to view a databases and tables. I was also unfamiliar with docker, but after experimenting with it in the terminal, I learned how important it is and the various functions it holds in relations to containers.
2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?  
     
   It was a little difficult connecting to SQL using SQL Pad and Adminer. I am still a little stuck learning the functions of MS SQL, particularly questions 6 and 7.
3. Were you prepared for this assignment? What can you do to be better prepared?  
     
   I was a little prepared by reviewing the document, however, I read it too fast and overlooked some details. I did not understand some terms as well so I was a little confused along the way. To better prepare, next time I will take my time reviewing the document and practicing along with Professor Fudge as he walks us through the lab as well as researching some background information.
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. Still a little confused on the functions of SQL Server and the purpose of docker/containers.**   
   2 ==> I somewhat understand the material but sometimes need guidance from others.  
   1 ==> I understand very little of this material and need extra help.