Unit 01 Homework 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

1. What is the command to show the running docker containers?

Docker-compose ps

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

Graphical user interface, text, application

Description automatically generated

1. 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 computer

Description automatically generated

1. 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.

Graphical user interface, application

Description automatically generated

1. 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.

Graphical user interface, text

Description automatically generated

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

Graphical user interface

Description automatically generated

1. What is the command to shut down the running docker containers?

docker-compose down

1. Provide a screenshot displaying evidence your containers are no longer running (the output of the previous question should suffice).

Graphical user interface, text

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 learnt to install Docker, Azure Data Studio, git and how to connect to an MS SQL server. I learnt about containers and images in Docker, and the walkthrough video was a big help in setting everything up. I learnt to navigate servers, namely, adminers, mssql, sqlpad and webapp. I also the learnt the basic commands related to docker and how to display attributes of a table.

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

I have an M1 Mac, which meant the set up was not as smooth thanks to the difference in chip architecture. I couldn’t get Azure data studio to display the tinyu, vbay, and payroll servers to show up in the connection. I had to refer to the announcements on blackboard and professor Fudge’s workaround to get things to work.

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

Yes, I feel I was prepared for this assignment. Professor Rieks was very responsive with regards to issues on the M1 Macs and professor Fudge’s walkthrough video helped. To be better prepared, I could have looked into Docker and MSSQL on youtube about the setup.

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.  
   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.

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