IST 659- Week 01

By Shivani Sanjay Mahaddalkar

# Questions

1. Use docker-compose to start the containers. What is the command you typed to do this?  
   Ans. docker-compose up -d
2. What is the command to show the running docker containers?   
   Ans. docker-compose ps
3. Provide a screenshot displaying evidence your containers are running (the output of the previous question should suffice).  
   A close up of text on a black background

   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!  
   A screenshot of a cell phone

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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.  
   A screenshot of a cell phone

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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.   
   A screenshot of a cell phone

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7. 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

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1. What is the command to shut down the running docker containers?  
   Ans. docker-compose down
2. Provide a screenshot displaying evidence your containers are no longer running (the output of the previous question should suffice).  
   A screenshot of a cell phone

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# 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 have learned what uses of docker can be. I have understood how databases with a lot of structured data can be stored, retrieved and updated efficiently.
2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?  
   When I tried to install it on my local machine, the State for mssql was Exit 1 instead of 0. I googled it but I am unable to figure out the problem that is causing it and how to fix it. When I used the virtual machine, I was able to finish it with the video.
3. Were you prepared for this assignment? What can you do to be better prepared?  
   The video helped in every step of the way.
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)  
     
   3 ==> I understand this material.