# IST769 Homework Submission: HW1

## Basic Information

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Date Due: 10/07/2021  
Homework #: 1

## Instructions

For each answer, please include your answer as text, and any screenshot(s) which demonstrate your answer was executed. Most importantly, make sure to include evidence your answer is correct. This will most likely be a screenshot. If you had issues, problems, or had to make assumptions include them in your answer.

## Your Answers:

1. Bring up the environment, type:   
docker-compose up -d

Screen shot:

Graphical user interface, text

Description automatically generated with medium confidence

2. Check docker using “docker-compose ps”

Graphical user interface, text

Description automatically generated with medium confidence

3. Create fudgemart\_v3

Graphical user interface, application, Word

Description automatically generated

4. Check to make sure the **fudgemart\_v3** database has tables and those tables have data

Ans: Read the employee table in fudgemart\_v3

Graphical user interface, application

Description automatically generated

5. Stop the docker container and verify

Text

Description automatically generated

6. Reset and rebuild environment using docker-compose down and bring up the container again

Text

Description automatically generated

# Exercises

1. What would be the command to bring up the redis environment? How is the command different from the mssql environment? How is it the same?

**ANSWER:** switch the folder on the command prompt to “redis” using cd command. Use **“docker-compose up -d”** to bring up the docker container defined in the docker-compose.yml. The command used to bring up container is same as mssql. The only difference is the docker container defined inside the docker-compose.yml for both databases

1. Where is the specific configuration information about each environment stored?

**ANSWER: docker-compose.yml** file contains all the configuration needed for the docker container to run appropriately.

1. Explain the difference between stopping an environment and bringing it down. Elaborate with use-cases for each.

ANSWER:

* docker-compose **“stop”** command stops the containers/services defined in the docker-compose.yml file.
* docker-compose **“down”** command will Stop and remove containers, networks, images, and volumes
* “stop” command is used to stop services and we can restart when we need. The databases created will stay intact between “stop” and “up” commands
* “down” is used to reset the containers. This command is used to destroy existing containers. When the container is rebuilt, the databases created in the previous container is lost. This approach is used to reset the test environment and restart.

1. What happens when you bring up an environment that is already up?

**ANSWER:** If “docker-compose up” command is used again where the container is running , nothing will happen. A status message shows up indicating the docker container is up to date.

1. What was the most difficult aspect of this lab? What changes could be made to make it less difficult?

**ANSWER:** I setup the environment on my local machine using the git repo.The container mentioned in the original git repository for mssql did not work. However, the Teams discussions provided right container to use and it helped.Updating the container in the git repo will help in the future.