**baHomework Week 3.**

**Step 1.**

1. sysadmin@UbuntuDesktop:/03-student$ mkdir Lucky\_Duck\_Investigations

sysadmin@UbuntuDesktop:/03-student$ ls

day1 day2 day3 Lucky\_Duck\_Investigations

1. sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations$ mkdir Roulette\_Loss\_Investigation

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations$ ls

Roulette\_Loss\_Investigation

1. sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations$ mkdir Player\_Analysis

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations$ mkdir Dealer\_Analysis

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations$ mkdir Player\_Dealer\_Correlation

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations$ ls

Dealer\_Analysis Player\_Analysis Player\_Dealer\_Correlation Roulette\_Loss\_Investigation

1. sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations/Player\_Analysis$ touch Notes\_Player\_Analysis

$ touch Notes\_Dealer\_Analysis

$ touch Notes\_Player\_Dealer\_Correction

**Step 2.**

1.wget "https://tinyurl.com/3-HW-setup-evidence" && chmod +x ./3-HW-setup-evidence && ./3-HW-setup-evidence

2. $ mv 0310\_Dealer\_schedule 0312\_Dealer\_schedule 0315\_Dealer\_schedule ../Dealer\_Analysis/

$ mv 0310\_win\_loss\_player\_data 0312\_win\_loss\_player\_data 0315\_win\_loss\_player\_data ../Player\_Analysis/

**Step 3.- Complete the player analysis.**

2. /03-student/Lucky\_Duck\_Investigations/Player\_Analysis$ grep '\-$\*' \*

3. $ grep '\-$\*' \* > Roulette\_Losses

4. sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations/Player\_Analysis$ more Roulette\_Losses

The time of the losses occurred on each day

$ awk '{print $1,$2}' Roulette\_Losses > Notes\_Player\_Analysis

If there is a certain player that was playing during each of those times

Save this below #!/bin/bash content in bash script file and run as below give the output of most frequent word of the file.

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations/Player\_Analysis$ bash Most\_Seen\_Player\_name.sh

output is 13 Mylie Schmidt.

The total count of times this player was playing

According the bash output its Mylie Schmidt is playing in 13 times.

**Step 3.-Complete the dealer analysis.**

**3. each day and time that you determined losses occurred**. I wrote a script call “output.sh” and ran the “output.sh” and created the Dealers\_working\_during\_losses file. You can find the date, Time, am/pm, first name of the roulette dealer and the last name of the roulette dealer in Dealers\_working\_during\_losses file.

Then I wrote a script to find out the dealer who is working in a specific date and time. But you need to pass the argument like below.

$ bash roulette\_dealer\_finder\_by\_time.sh 0312 04 pm the out put for this is Cleveland Hanna.

According to the question example the player is working on March 10 at 2 pm is:

$ bash roulette\_dealer\_finder\_by\_time.sh 0310 02 pm

Billy Jones (the answer is Billy Jones).

4.

Then from the “Dealers\_working\_during\_losses” file, I cut out the Dealers names

From the following command.

$ awk '{print $4,$5}' Dealers\_working\_during\_losses &> Dealer\_names

1. Now I have dealer’s data in Dealer\_names file.

To find the primary dealer working at that times where losses occurred, I wrote a bash script like below name Primary\_dealer\_working\_at\_that\_time.sh after running this script I get the output as 15 times and the Dealer is Billy Jones.

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations/Dealer\_Analysis$ bash Primary\_dealer\_working\_at\_that\_time.sh

15 Billy Jones

1. Input these sentences to the file “Notes\_Player\_Dealer\_Correction”.

Used nano editor to write below sentences in to above file.

there is a certain player that was playing during each of the losses occurred, her name is Mylie Schmidt. She was playing in 13 times.

there is a primary dealer working at the times where losses occurred, his name is Billy Jones. He has seen in 15 times.

That means Player Mylie Schmidt and Dealer Billy Jones are doing some scam to the Lucky Duck.

**Step 4.**

1.

I have all the data in “Dealers\_working\_during\_losses” file. The data is like below.

0310 12:00:00 AM Marlene Mcpherson

0310 01:00:00 AM Saima Mcdermott

0310 02:00:00 AM Abigale Rich

I wrote a script to find the Roulette Dealer call “roulette\_dealer\_finder\_by\_time.sh”.

I can run above file using below command.

$ bash roulette\_dealer\_finder\_by\_time.sh 0312 05 pm ( “0312” “05” “pm” are the three arguments)

Then the output comes as below.

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The bash command are as below for the “roulette\_dealer\_finder\_by\_time.sh” file

#!/bin/bash

grep -w $1 Dealers\_working\_during\_losses > a.txt

grep -w $2 a.txt > b.txt

grep -wi $3 b.txt | awk '{print $4,$5}'

rm a.txt b.txt

2.

I have test the “roulette\_dealer\_finder\_by\_time.sh” file and its giving me the correct output.

**For bonus Question.**

sysadmin@UbuntuDesktop:/03-student/Lucky\_Duck\_Investigations/Dealer\_Analysis$ useful data is in all the three files.

1. 0310\_Dealer\_schedule
2. 0312\_Dealer\_schedule
3. 0315\_Dealer\_schedule

I wrote a script call bonus.sh to get the output.

When you pass the parameters to bonus file you need pass as below.

Specific date: 0310, 0312 or 0315

Specific time: 04 pm, 06 PM, 05 Am, or 03 am (am, pm are not case sensitive)

Casino game being played: Black, Roulette or Texas. (The fourth parameter is case sensitive) As an example, you can pass parameters as “Bla”, “Rou” or “Tex” even.

$ bash bonus.sh 0315 06 pm Texas or $ bash bonus.sh 0310 06 am Black these two commands give me the dealer names as “John-James Hayward” and ”Evalyn Howell” respectively.