**Week 3 Homework: A High Stakes Investigation**

**Scenario**

You have just been hired by Lucky Duck Casino as a security analyst.

* Lucky Duck has lost a significant amount of money on the roulette tables over the last month.
* The largest losses occurred on March 10, 12, and 15.
* Your manager believes there is a player working with a Lucky Duck dealer to steal money at the roulette tables.
* The casino has a large database with data on wins and losses, player analysis, and dealer schedules.
* You are tasked with navigating, modifying, and analyzing these data files to gather evidence on the rogue player and dealer.
* You will prepare several evidence files to assist the prosecution.
* You must work quickly as Lucky Duck can't afford any more losses.

Lucky Duck Casino has provided you with the following files if required:

* [Roulette Player Data: Week of March 10](file:////asu-coding-bootcamp/asu-glen-cyber-pt-11-2020-u-c/-/blob/master/03-Terminal-and-Bash/Homework/Resources/Roulette_Player_WinLoss_0310.zip)
* [Employee Dealer Schedule: Week of March 10](file:////asu-coding-bootcamp/asu-glen-cyber-pt-11-2020-u-c/-/blob/master/03-Terminal-and-Bash/Homework/Resources/Dealer_Schedules_0310.zip)

**Note:** The instructions ask you to set up the files using a wget command, but the files are also provided in compressed zip format if the command does not work.

\*\*Utilize cheat sheet and instructions from Google bookmark **wget**

<https://gist.github.com/Dammmien/4af98e05f9c51c2da007cc70d62bf562>

<https://linuxize.com/post/wget-command-examples/>

<https://www.computerhope.com/unix/wget.htm>

**Lab Environment**

* You will use your local Vagrant virtual machine for today's activities. Please note that instructors and students have different access credentials.
  + Username: sysadmin
  + Password: cybersecurity

**Instructions**

Use your command-line skills to uncover the identities of the rogue casino player and dealer colluding to scam Lucky Duck out of thousands of dollars.

After your investigation, you will provide a summary of your findings to the casino.

**Step 1: Investigation Preparation**

Your first task is to set up directories to prepare for your investigation.

1. Begin by making a single directory titled Lucky\_Duck\_Investigations.
   * **mkdir Lucky\_Duck\_Investigations**
   * **ls**
2. In this directory, create a directory for this specific investigation titled Roulette\_Loss\_Investigation.
   * **cd Lucky\_Duck\_Investigations**
   * **mkdir Roulette\_Loss\_Investigation**
   * **ls**
3. In Roulette\_Loss\_Investigation, create the following directories:
   * Player\_Analysis to investigate the casino player.
   * Dealer\_Analysis to investigate the dealers.
   * Player\_Dealer\_Correlation to summarize your findings of the collusion.

* **mkdir Lucky\_Duck\_Investigation**
* **cd**
* **cd Lucky\_Duck\_Investigation/**
* **ls**
* **mkdir Roulette\_Loss\_Investigation**
* **ls**
* **cd Roulette\_Loss\_Investigation/**
* **ls**
* **mkdir Player\_Analysis**
* **ls**
* **mkdir Dealer\_Analysis**
* **ls**
* **mkdir Player\_Dealer\_Correlation**

1. Create empty files called Notes\_<Directory Name> under each subdirectory to store investigation notes.
   * For example: Notes\_Player\_Analysis

* **touch Dealer\_Analysis**
* **ls**
* **touch Notes\_Player\_Analysis**
* **ls**
* **touch Notes\_Player\_Dealer\_Correlation**
* **ls**

**Step 2: Gathering Evidence**

Your next task is to move evidence from the specific days that Lucky Duck experienced heavy losses at the roulette tables.

1. Navigate to the directory where you created the Lucky\_Duck\_Investigations directory and run the following command to set up the evidence files:
   * wget "https://tinyurl.com/3-HW-setup-evidence" && chmod +x ./3-HW-setup-evidence && ./3-HW-setup-evidence

After running this command your current directory should have the following subdirectories:

* + Dealer\_Schedules\_0310: Contains the dealer schedules.
  + Lucky\_Duck\_Investigations: Contains the investigation directories and notes files you created.
  + Roulette\_Player\_WinLoss\_0310: Contains the data for player wins and losses.
* **wget "https://tinyurl.com/3-HW-setup-evidence" && chmod +x ./3-HW-setup-evidence && ./3-HW-setup-evidence**

1. The Dealer\_Schedules\_0310 and Roulette\_Player\_WinLoss\_0310 directories contain the dealer schedules and win/loss player data from the roulette tables during the week of March 10.
   * Since the losses occurred on March 10, 12, and 15, move the schedules for those days into the directory Dealer\_Analysis.
   * Move the files for those days into the directory Player\_Analysis.
     + **ls**
     + **cd Dealer\_Schedules\_03**
     + **ls**
     + **cd ..**
     + **ls**
     + **cd Roulette\_Player\_WinLoss\_0310/**
     + **ls**
     + **cd ..**
     + **cd Roulette\_Loss\_Investigation/**
     + **ls**
     + **cd ..**
     + **ls**
     + **cd Dealer\_Schedules\_0310/**
     + **122 ls**
     + **mv 0310\_Dealer\_schedule /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis**
     + **ls**
     + **mv 0312\_Dealer\_schedule /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis**
     + **mv 0315\_Dealer\_schedule /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis**
     + **cd ../Roulette\_Player\_WinLoss\_0310/**
     + **ls**
     + **mv 0310\_win\_loss\_player\_data /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis**
     + **mv 0312\_win\_loss\_player\_data /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis**
     + **mv 0315\_win\_loss\_player\_data /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis**

**Step 3: Correlating the Evidence**

Your next task is to correlate the large losses from the roulette tables with the dealer schedule. This will help you determine which dealer and player are colluding to steal money from Lucky Duck.

**Note:** Winnings for Lucky Duck Casino are indicated with a positive number and losses are indicated with a negative number.

Complete the player analysis.

1. Navigate to the Player\_Analysis directory.
   * **cd ../Player\_Analysis/**
   * **ls**
   * **pwd**
2. Use grep to isolate all of the losses that occurred on March 10, 12, and 15.
   * **cat 03\* | grep - > Roulette\_Losses**
   * **cat Roulette\_Losses | grep -i mylie**
3. Place those results in a file called Roulette\_Losses.
   * **nano Notes\_Player\_Analysis**
   * **cat Notes\_Player\_Analysis**
4. Preview the file Roulette\_Losses and analyze the data.
   * Record in the Notes\_Player\_Analysis file:
     + The times the losses occurred on each day.
     + If there is a certain player that was playing during each of those times.
     + The total count of times this player was playing.
       - **Hint:** Use the wc command to find this value.
   * **cat Roulette\_Losses | grep -i mylie | wc -l**
   * **echo "found 13 times" >> Notes\_Player\_Analysis**
   * **cat Notes\_Player\_Analysis**

**Complete the dealer analysis.**

1. Navigate to the Dealer\_Analysis directory.
   * **cd ../Dealer\_Analysis**
2. This file contains the dealer schedules for the various Lucky Duck casino games: Blackjack, Roulette, and Texas Hold 'Em.
   * Preview the schedule to view the format and to understand how the data is separated.

**Hour--AM/PM—Black Jack (FN-LN)—Roulette (FN-LN)—Texas Hold ‘Em (FN-LN)**

1. Using your findings from the player analysis, create a separate script to look at each day and time that you determined losses occurred. Use awk, pipes, and grep to isolate out the following four fields:
   * **cat 0310**
   * **cat 0310\_Dealer\_schedule**
   * **awk '{print $1}' 03\* Time**
   * **awk '{print $2}' 03\* AMPM**
   * **nano Notes\_Dealer\_Analysis**
   * **awk '{print $6}' 03\*. LN “Billy Jones”**
   * **echo "Billy Jones on duty for all Mylie S events" >> Notes\_Dealer\_Analysis**

\*\* <https://www.shortcutfoo.com/app/dojos/awk/cheatsheet>

* + **Time**
  + **a.m./p.m.**
  + First name of roulette dealer
  + **Last name of roulette dealer**

****

For example, if a loss occurred on March 10 at 2 p.m., you would write one script to find the roulette dealer who was working at that specific day and time.

* + **Hint:** You will have many scripts, but only a small change is required for each script.

1. Run all of the scripts and append those results to a file called Dealers\_working\_during\_losses.

\*\*Some; not all (Sampling)

A picture containing background pattern

Description automatically generated

1. Preview your file Dealers\_working\_during\_losses and analyze the data.
   * Record in the Notes\_Dealer\_Analysis file:
     + The primary dealer working at the times where losses occurred.
     + How many times the dealer worked when major losses occurred.

* **cat Dealers\_working\_during\_losses | grep -i jones | wc -l**
* **answer: 13**

1. Complete the player/employee correlation.
   * In the notes file of the Player\_Dealer\_Correlation directory, add a summary of your findings noting the player and dealer you believe are colluding to scam Lucky Duck
   * Make sure to document your specific reasons for this finding.

**Step 4: Scripting Your Tasks**

You manager is impressed with the work you have done so far on the investigation.

They tasked you with building a shell script that can easily analyze future employee schedules. They will use this to determine which employee was working at a specific time in the case of future losses.

Complete the following tasks:

1. Remain in the Dealer\_Analysis directory. Develop a shell script called roulette\_dealer\_finder\_by\_time.sh that can analyze the employee schedule to easily find the roulette dealer at a specific time.

**Hint:** You will be using a script similar to the one you created for the dealer analysis step, but you will not output the results into a file.

* + Design the shell script to accept the following two arguments:
    - One for the date (four digits)
    - One for the time

**Note:** The argument should be able to accept a.m. or p.m.

\*\*Just rename the folder it will go to…

****

1. Test your script on the schedules to confirm it outputs the correct dealer at the time specified.

\*\*Utilize cheat sheet and instructions from Google bookmark **testing script**

<https://opensource.com/article/19/12/testing-bash-script>

<https://www.computerhope.com/unix/bash/test.htm> cd

**~~Bonus~~**

* ~~In case there is future fraud on the other Lucky Duck games, create a shell script called roulette\_dealer\_finder\_by\_time\_and\_game.sh that has the three following arguments:~~
  + ~~Specific time~~
  + ~~Specific date~~
  + ~~Casino game being played~~

**~~Hint:~~**~~The argument does not need to name the specific casino game.~~

**Submission Guidelines**

* Move the following to the Player\_Dealer\_Correlation directory: (cp instead of mv)
  + All note files
  + Evidence files:
    - Roulette\_Losses
    - Dealers\_working\_during\_losses
  + Shell script(s)
* Compress the Player\_Dealer\_Correlation folder to a zip file and submit it.

\*\*Setup folder on Desktop to move to and make sure to set-up to share and make it permanent

* + **tar cvvf Homework.tar Player\_Dealer\_Correlation/**
  + **ls**
  + **gzip Homework.tar**
  + **sudo cp Homework.tar.gz /media/sf\_Shared\_VM/**

© 2020 Trilogy Education Services, a 2U, Inc. brand. All Rights Reserved.

﻿/home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Dealer\_Correlation

**Week 3 Homework-High Stakes Investigation Terminal Commands**

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Player\_WinLoss\_0310$ cd ../

Dealer\_Schedules\_0310/ Roulette\_Player\_WinLoss\_0310/

Roulette\_Loss\_Investigation/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Player\_WinLoss\_0310$ cd ../..

sysadmin@UbuntuDesktop:~$ ls

Cybersecurity-Lesson-Plans history.txt Public Templates

Desktop Lucky\_Duck\_Investigation python Videos

Documents Music shadow\_copy

Downloads Pictures sudo\_access.txt

sysadmin@UbuntuDesktop:~$ cd Lucky\_Duck\_Investigation/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation$ ls

3-HW-setup-evidence Roulette\_Loss\_Investigation

Dealer\_Schedules\_0310 Roulette\_Player\_WinLoss\_0310

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation$ cd Roulette\_Loss\_Investigation/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ ls

Dealer\_Analysis Player\_Analysis Player\_Dealer\_Correlation

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ cd Dealer\_Analysis/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule

0312\_Dealer\_schedule Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ clear

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ locate

locate: no pattern to search for specified

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ updatedb

updatedb: can not open a temporary file for `/var/lib/mlocate/mlocate.db'

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ sudo updatedb

[sudo] password for sysadmin:

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ locate 0312\_Dealer\_schedule

/home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis/0312\_Dealer\_schedule

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0312\_Dealer\_schedule 0315\_Dealer\_schedule Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat 0310

cat: 0310: No such file or directory

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat 0310\_Dealer\_schedule

Hour AM/PM BlackJack\_Dealer\_FNAME LAST Roulette\_Dealer\_FNAME LAST Texas\_Hold\_EM\_dealer\_FNAME LAST

12:00:00 AM Izabela Parrish Marlene Mcpherson Madina Britton

01:00:00 AM Billy Jones Saima Mcdermott Summer-Louise Hammond

02:00:00 AM Summer-Louise Hammond Abigale Rich John-James Hayward

03:00:00 AM John-James Hayward Evalyn Howell Chyna Mercado

04:00:00 AM Chyna Mercado Cleveland Hanna Katey Bean

05:00:00 AM Katey Bean Billy Jones Evalyn Howell

06:00:00 AM Evalyn Howell Saima Mcdermott Cleveland Hanna

07:00:00 AM Cleveland Hanna Abigale Rich Billy Jones

08:00:00 AM Rahima Figueroa Billy Jones Madina Britton

09:00:00 AM Marlene Mcpherson Cleveland Hanna Summer-Louise Hammond

10:00:00 AM Izabela Parrish Madina Britton John-James Hayward

11:00:00 AM Madina Britton Summer-Louise Hammond Chyna Mercado

12:00:00 PM Summer-Louise Hammond John-James Hayward Katey Bean

01:00:00 PM John-James Hayward Chyna Mercado Evalyn Howell

02:00:00 PM Chyna Mercado Billy Jones Cleveland Hanna

03:00:00 PM Katey Bean Evalyn Howell Rahima Figueroa

04:00:00 PM Evalyn Howell Cleveland Hanna Billy Jones

05:00:00 PM Billy Jones Rahima Figueroa Summer-Louise Hammond

06:00:00 PM Rahima Figueroa John-James Hayward John-James Hayward

07:00:00 PM Marlene Mcpherson Chyna Mercado Chyna Mercado

08:00:00 PM Saima Mcdermott Billy Jones Katey Bean

09:00:00 PM Abigale Rich Evalyn Howell Billy Jones

10:00:00 PM Evalyn Howell Katey Bean Cleveland Hanna

11:00:00 PM Cleveland Hanna Billy Jones Rahima Figueroa

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ awk '{print $1}'

0310\_Dealer\_schedule 0312\_Dealer\_schedule 0315\_Dealer\_schedule Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ awk '{print $1}' 03\*

Hour

12:00:00

01:00:00

02:00:00

03:00:00

04:00:00

05:00:00

06:00:00

07:00:00

08:00:00

09:00:00

10:00:00

11:00:00

12:00:00

01:00:00

02:00:00

03:00:00

04:00:00

05:00:00

06:00:00

07:00:00

08:00:00

09:00:00

10:00:00

11:00:00

Hour

12:00:00

01:00:00

02:00:00

03:00:00

04:00:00

05:00:00

06:00:00

07:00:00

08:00:00

09:00:00

10:00:00

11:00:00

12:00:00

01:00:00

02:00:00

03:00:00

04:00:00

05:00:00

06:00:00

07:00:00

08:00:00

09:00:00

10:00:00

11:00:00

Hour

12:00:00

01:00:00

02:00:00

03:00:00

04:00:00

05:00:00

06:00:00

07:00:00

08:00:00

09:00:00

10:00:00

11:00:00

12:00:00

01:00:00

02:00:00

03:00:00

04:00:00

05:00:00

06:00:00

07:00:00

08:00:00

09:00:00

10:00:00

11:00:00

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ awk '{print $6}' 03\*

LAST

Mcpherson

Mcdermott

Rich

Howell

Hanna

Jones

Mcdermott

Rich

Jones

Hanna

Britton

Hammond

Hayward

Mercado

Jones

Howell

Hanna

Figueroa

Hayward

Mercado

Jones

Howell

Bean

Jones

LAST

Mcpherson

Mcdermott

Rich

Howell

Hanna

Jones

Mcdermott

Rich

Jones

Hanna

Britton

Hammond

Hayward

Mercado

Jones

Howell

Hanna

Figueroa

Hayward

Mercado

Jones

Howell

Bean

Jones

LAST

Mcpherson

Mcdermott

Rich

Howell

Hanna

Jones

Mcdermott

Rich

Jones

Hanna

Britton

Hammond

Hayward

Mercado

Jones

Howell

Hanna

Figueroa

Hayward

Mercado

Jones

Howell

Bean

Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ echo "found 13 times" >> Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ echo "Billy Jones was only on duty when Mylie S was playing" >> Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Roulette\_Losses | grep -i mylie | wc -l

cat: Roulette\_Losses: No such file or directory

0

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Roulette\_Losses | grep -i jones | wc -l

cat: Roulette\_Losses: No such file or directory

0

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealer\_Analysis | grep -i jones | wc -l

cat: Dealer\_Analysis: No such file or directory

0

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealer\_Analysis/ | grep -i jones | wc -l

cat: Dealer\_Analysis/: No such file or directory

0

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ awk '{print $6}' 03\*

LAST

Mcpherson

Mcdermott

Rich

Howell

Hanna

Jones

Mcdermott

Rich

Jones

Hanna

Britton

Hammond

Hayward

Mercado

Jones

Howell

Hanna

Figueroa

Hayward

Mercado

Jones

Howell

Bean

Jones

LAST

Mcpherson

Mcdermott

Rich

Howell

Hanna

Jones

Mcdermott

Rich

Jones

Hanna

Britton

Hammond

Hayward

Mercado

Jones

Howell

Hanna

Figueroa

Hayward

Mercado

Jones

Howell

Bean

Jones

LAST

Mcpherson

Mcdermott

Rich

Howell

Hanna

Jones

Mcdermott

Rich

Jones

Hanna

Britton

Hammond

Hayward

Mercado

Jones

Howell

Hanna

Figueroa

Hayward

Mercado

Jones

Howell

Bean

Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealer\_Analysis | grep -i jones | wc -l

cat: Dealer\_Analysis: No such file or directory

0

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ touch Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Notes\_Dealer\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses

#!/bin/bash

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ chmod +x Dealers\_working\_during\_losses.sh

chmod: cannot access 'Dealers\_working\_during\_losses.sh': No such file or directory

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Notes\_Dealer\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ naon Dealers\_working\_during\_losses

Command 'naon' not found, did you mean:

command 'nano' from snap nano (5.2+pkg-7d56)

command 'nano' from deb nano

command 'nmon' from deb nmon

See 'snap info <snapname>' for additional versions.

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Notes\_Dealer\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Dealers\_working\_during\_losses.sh Notes\_Player\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ chmod +x Dealers\_working\_during\_losses.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Dealers\_working\_during\_losses.sh Notes\_Player\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses.sh

#!/bin/bash

cat 0310\_Dealer\_schedule | awk -F" " '{print $1, $2, $5, $6} | grep "$1 $2"

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ./Dealers\_working\_during\_losses.sh 05:00:00 AM

./Dealers\_working\_during\_losses.sh: line 2: unexpected EOF while looking for matching `''

./Dealers\_working\_during\_losses.sh: line 5: syntax error: unexpected end of file

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ./Dealers\_working\_during\_losses.sh 05:00:00 AM

05:00:00 AM Billy Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Dealers\_working\_during\_losses.sh Notes\_Dealer\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Losses\_script\_dealers.sh Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Losses\_script\_dealers.sh

#!/bin/bash

cat 0310\_Dealer\_schedule | awk -F" " '{print $1, $2, $5, $6}' | grep "$1 $2" >> Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ rm Dealers\_working\_during\_losses.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Losses\_script\_dealers.sh Notes\_Player\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ chmod +x Losses\_script\_dealers.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Losses\_script\_dealers.sh Notes\_Player\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls -l

total 28

-rw-r--r-- 1 sysadmin sysadmin 1489 Dec 15 12:45 0310\_Dealer\_schedule

-rw-r--r-- 1 sysadmin sysadmin 1489 Dec 15 12:45 0312\_Dealer\_schedule

-rw-r--r-- 1 sysadmin sysadmin 1489 Dec 15 12:45 0315\_Dealer\_schedule

-rw-r--r-- 1 sysadmin sysadmin 90 Dec 16 19:14 Dealers\_working\_during\_losses

-rwxr-xr-x 1 sysadmin sysadmin 124 Dec 16 19:28 Losses\_script\_dealers.sh

-rw-r--r-- 1 sysadmin sysadmin 153 Dec 15 18:10 Notes\_Dealer\_Analysis

-rw-r--r-- 1 sysadmin sysadmin 15 Dec 15 18:00 Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ./Losses\_script\_dealers.sh 05:00:00 AM

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Losses\_script\_dealers.sh Notes\_Player\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses

#!/bin/bash

cat 0310\_Dealer\_schedule | awk -F" " '{print $1, $2, $5, $6} | grep "$1 $2"

05:00:00 AM Billy Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ./Losses\_script\_dealers.sh 08:00:00 AM

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses

#!/bin/bash

cat 0310\_Dealer\_schedule | awk -F" " '{print $1, $2, $5, $6} | grep "$1 $2"

05:00:00 AM Billy Jones

08:00:00 AM Billy Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Losses\_script\_dealers.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ./Losses\_script\_dealers.sh 02 PM

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses

#!/bin/bash

cat 0310\_Dealer\_schedule | awk -F" " '{print $1, $2, $5, $6} | grep "$1 $2"

05:00:00 AM Billy Jones

08:00:00 AM Billy Jones

02:00:00 PM Billy Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses

05:00:00 AM Billy Jones

08:00:00 AM Billy Jones

02:00:00 PM Billy Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano -l Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ls

0310\_Dealer\_schedule 0315\_Dealer\_schedule Losses\_script\_dealers.sh Notes\_Player\_Analysis

0312\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Losses\_script\_dealers.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ ./Losses\_script\_dealers.sh 0310 11 PM

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses

05:00:00 AM Billy Jones

08:00:00 AM Billy Jones

02:00:00 PM Billy Jones

11:00:00 PM Billy Jones

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Losses\_script\_dealers.sh

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cat Dealers\_working\_during\_losses | grep -i jones | wc -l

13

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Dealers\_working\_during\_losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cd ../

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ ls

Dealer\_Analysis Player\_Analysis Player\_Dealer\_Correlation

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ nano Player\_Dealer\_Correlation/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ cd Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ nano Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cd ../

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ ls

Dealer\_Analysis Notes\_Dealer\_Analysis Player\_Analysis Player\_Dealer\_Correlation

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ nano Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ nano Notes\_Dealer\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ cat Notes\_Player\_Dealer\_Correlation

-On 3/10, 3/12 and 3/15 Mylie Schmidt played at the same times there were losses occured at 5 AM, 8 AM, 2 PM,

8 PM, 11 PM except for 3/15 it was only at 5 AM, 8 AM and 2 PM

-Billy Jones was the dealer on duty for Roulette when Mylie Schmidt was playing when losses occured

-The dealer, Billy Jones, worked 13 times when the major losses occured

The research completed with the many commands we utilized in the VM with the correlation all of the data/files

that were provided by the company in the files that were sent to us, does support the above conclusions.

These two commands help me figure out who the player was

-cat 03\* | grep ->Roulette\_Losses

-cat Roulette\_Losses | grep -i mylie (since her name popped up in the first three lines I figured it was a

possibility)

The following commands allowed me to narrow down the Dealer during the loses in Roulette

awk '{print $1}' 03\* (Time)

awk '{print $2}' 03\* (AMPM)

awk '{print $5}' 03\* (FN)

awk '{print $6}' 03\* (LN)

The following command was put in Nano to assist in narrowing down Billy Jones as the dealer

cat $1\_Dealer\_schedule | awk -F" " '{print $1, $2, $5, $6}' | grep "$2:00:00 $3} >> Dealers\_working\_during\_losses

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cp \* ../Player\_Dealer\_Correlation/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ cd ../Player\_Dealer\_Correlation/

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Dealer\_Correlation$ ls

0310\_Dealer\_schedule Dealers\_working\_during\_losses Notes\_Player\_Dealer\_Correlation

0312\_Dealer\_schedule Losses\_script\_dealers.sh roulette\_dealer\_finder\_by\_time.sh

﻿0315\_Dealer\_schedule Notes\_Dealer\_Analysis

Dealer\_finder\_by\_time Notes\_Player\_Analysis

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ ls

Dealer\_Analysis Homework.tar Notes\_Dealer\_Analysis Player\_Analysis Player\_Dealer\_Correlation

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ gzip Homework.tar

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ ls

Dealer\_Analysis Homework.tar.gz Notes\_Dealer\_Analysis Player\_Analysis Player\_Dealer\_Correlation

﻿ysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation$ ls

Dealer\_Analysis Notes\_Dealer\_Analysis Player\_Dealer\_Correlation

Homework.tar.gz Player\_Analysis

History

﻿sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis$ history

59 ls

60 mkdir Lucky\_Duck\_Investigation

61 cd

62 cd Lucky\_Duck\_Investigation/

63 ls

64 mkdir Roulette\_Loss\_Investigation

65 ls

66 cd Roulette\_Loss\_Investigation/

67 ls

68 mkdir Player\_Analysis

69 ls

70 mkdir Dealer\_Analysis

71 ls

72 mkdir Player\_Dealer\_Correlation

73 ls

74 cd Dealer\_Analysis/

75 touch Notes Dealer Analysis

76 ls

77 touch Dealer\_Analysis

78 ls

79 rm Notes Dealer Analysis

80 ls

81 touch Notes\_Dealer\_Analysis

82 ls

83 rm Dealer\_Analysis

84 ls

85 ../

86 cd /Lucky\_Duck\_Investigtion/Roulette\_Loss\_Investigation

87 ..

88 ls

89 cd ~

90 ls

91 cd Lucky\_Duck\_Investigation/

92 ls

93 cd Roulette\_Loss\_Investigation/

94 ls

95 cd Player\_Analysis/

96 touch Notes\_Player\_Analysis

97 ls

98 cd ..

99 ls

100 cd Player\_Dealer\_Correlation/

101 touch Notes\_Player\_Dealer\_Correlation

102 ls

103 clear

104 cd ~

105 ls

106 cd Lucky\_Duck\_Investigation/

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

108 ls

109 cd Dealer\_Schedules\_0310/

110 ls

111 cd ..

112 ls

113 cd Roulette\_Player\_WinLoss\_0310/

114 ls

115 cd ..

116 cd Roulette\_Loss\_Investigation/

117 ls

118 cd ..

119 clear

120 ls

121 cd Dealer\_Schedules\_0310/

122 ls

123 mv 0310\_Dealer\_schedule /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis

124 ls

125 mv 0312\_Dealer\_schedule /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis

126 mv 0315\_Dealer\_schedule

127 mv 0315\_Dealer\_schedule /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Dealer\_Analysis

128 cd ../Roulette\_Player\_WinLoss\_0310/

129 ls

130 mv 0310\_win\_loss\_player\_data /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis

131 mv 0312\_win\_loss\_player\_data /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis

132 mv 0315\_win\_loss\_player\_data /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis

133 clear

134 ls

135 cd ../..

136 ls

137 cd Lucky\_Duck\_Investigation/

138 ls

139 cd Roulette\_Loss\_Investigation/

140 ls

141 cd Dealer\_Analysis/

142 ls

143 clear

144 ls

145 locate

146 updatedb

147 sudo updatedb

148 locate 0312\_Dealer\_schedule

149 ls

150 cat 0310

151 cat 0310\_Dealer\_schedule

152 awk '{print $1}' 03\*

153 history

﻿154 nano Notes\_Dealer\_Analysis

155 awk '{print $21}' 03\*

156 awk '{print $2}' 03\*

157 awk '{print $4}' 03\*

158 awk '{print $6}' 03\*

159 echo "found 13 times" >> Notes\_Player\_Analysis

160 echo "Billy Jones was only on duty when Mylie S was playing" >> Notes\_Dealer\_Analysis

161 nano Notes\_Dealer\_Analysis

162 history

﻿163 cat Roulette\_Losses | grep -i mylie | wc -l

164 cat Roulette\_Losses | grep -i jones | wc -l

165 cat Dealer\_Analysis | grep -i jones | wc -l

166 cat Dealer\_Analysis/ | grep -i jones | wc -l

167 awk '{print $6}' 03\*

168 cat Dealer\_Analysis | grep -i jones | wc -l

169 touch Dealers\_working\_during\_losses

170 ls

171 nano Dealers\_working\_during\_losses

172 cat Dealers\_working\_during\_lo

173 nano Dealers\_working\_during\_losses

174 chmod +x Dealers\_working\_during\_losses.sh

175 ls

176 naon Dealers\_working\_during\_losses

177 nano Dealers\_working\_during\_losses

178 ls

179 nano Dealers\_working\_during\_losses

180 ls

181 chmod +x Dealers\_working\_during\_losses.sh

182 ls

183 cat Dealers\_working\_during\_losses.sh

184 ./Dealers\_working\_during\_losses.sh 05:00:00 AM

185 nano Dealers\_working\_during\_losses.sh

186 ./Dealers\_working\_during\_losses.sh 05:00:00 AM

187 nano Dealers\_working\_during\_losses

188 ls

189 cat Losses\_script\_dealers.sh

190 rm Dealers\_working\_during\_losses.sh

191 ls

192 chmod +x Losses\_script\_dealers.sh

193 ls

194 ls -l

195 ./Losses\_script\_dealers.sh 05:00:00 AM

196 ls

197 cat Dealers\_working\_during\_losses

198 ./Losses\_script\_dealers.sh 08:00:00 AM

199 cat Dealers\_working\_during\_losses

200 nano Losses\_script\_dealers.sh

201 ./Losses\_script\_dealers.sh 02 PM

202 cat Dealers\_working\_during\_losses

203 nano Dealers\_working\_during\_losses

204 cat Dealers\_working\_during\_losses

205 nano -l Dealers\_working\_during\_losses

206 ls

207 nano Losses\_script\_dealers.sh

208 ./Losses\_script\_dealers.sh 0310 11 PM

209 cat Dealers\_working\_during\_losses

210 nano Losses\_script\_dealers.sh

Text

Description automatically generated

﻿212 ./Losses\_script\_dealers.sh 0312 5 AM

213 cat Losses\_script\_dealers.sh

214 cat Dealers\_working\_during\_losses

215 ./Losses\_script\_dealers.sh 0312 8 AM

216 ./Losses\_script\_dealers.sh 0312 2 PM

217 ./Losses\_script\_dealers.sh 0312 11 PM

218 ./Losses\_script\_dealers.sh 0315 5 AM

219 ./Losses\_script\_dealers.sh 0315 8 AM

220 ./Losses\_script\_dealers.sh 0315 2 PM

221 ./Losses\_script\_dealers.sh 0315 11 PM

222 cat Dealers\_working\_during\_losses

223 ./Losses\_script\_dealers.sh 0315 2 PM

224 nano Dealers\_working\_during\_losses

225 ./Losses\_script\_dealers.sh 0315 05 PM

226 nano Dealers\_working\_during\_losses

227 ./Losses\_script\_dealers.sh 0315 11 PM

228 cat Losses\_script\_dealers.sh | grep -i billy | wc -l

229 cat Losses\_script\_dealers.sh | grep -i jones | wc

230 cat Dealers\_working\_during\_losses | grep -i jones | wc

231 nano Dealers\_working\_during\_losses

232 cat Dealers\_working\_during\_losses | grep -i jones | wc -l

233 nano Notes\_Dealer\_Analysis

234 ./Losses\_script\_dealers.sh 0312 08 PM

235 ./Losses\_script\_dealers.sh 0310 08 PM

236 ./Losses\_script\_dealers.sh 0315 08 PM

237 nano Dealers\_working\_during\_losses

238 cat Dealers\_working\_during\_losses | grep -i jones | wc -l

239 nano Dealers\_working\_during\_losses

240 nano Notes\_Dealer\_Analysis

241 cd ../

242 ls

243 nano Player\_Dealer\_Correlation/

244 cd Dealer\_Analysis

245 nano Notes\_Dealer\_Analysis

246 cd ../

247 ls

248 nano Notes\_Dealer\_Analysis

249 cat Notes\_Player\_Dealer\_Correlation

250 cd Dealer\_Analysis/

251 ls

252 cat Notes\_Player\_Analysis

253 cd ../~

254 cd ../

255 ls

256 cd Roulette\_Loss\_Investigation/

257 ls

258 cd Player\_Dealer\_Correlation/

259 pwd

260 cd ../

267 gz

268 ls

269 cd Player\_Dealer\_Correlation/

﻿270 ls

271 history

272 clear

273 cd ../

274 ls

275 cd Dealer\_Analysis/

276 ls

277 touch roulette\_dealer\_finder\_by\_time.sh

278 ls

279 cd Losses\_script\_dealers.sh

280 cat Losses\_script\_dealers.sh

281 ls

282 cat roulette\_dealer\_finder\_by\_time.sh

283 nano roulette\_dealer\_finder\_by\_time.sh

284 touch Dealer\_finder\_by\_time

285 ls

286 nano roulette\_dealer\_finder\_by\_time.sh

287 cat roulette\_dealer\_finder\_by\_time.sh

288 cd ../

289 ls

290 cd Player\_Dealer\_Correlation/

291 pwd

292 mv Notes\_Dealer\_Analysis /home/sysadmin/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Dealer\_Correlation

293 la

294 ls

295\* cat Notes\_Player\_Dealer\_Correlation

296 cd ../

297 ls

298 cd Dealer\_Analysis/

299 ls

300 cp \* ../Player\_Dealer\_Correlation/

301 cd ../Player\_Dealer\_Correlation/

302 ls

303 cd ../

304 gzip -r Player\_Dealer\_Correlation/tar.gz

305 gzip ./Player\_Dealer\_Correlation/tar.gz

306 ls

307 tar

308 tar cvvf Homework.tar Player\_Dealer\_Correlation/

309 ls

310 gzip Homework.tar

311 ls

312 cp Homework.tar.gz /media/sf\_Shared\_VM/

313 sudo cp Homework.tar.gz /media/sf\_Shared\_VM/

314 ls

315 cd Player\_Dealer\_Correlation/

316 ls

317 cat Notes\_Dealer\_Analysis

318 cd ../

319 ls

320 cat Notes\_Dealer\_Analysis

321 cd Player\_Dealer\_Correlation/

322 ls

323 cat Notes\_Player\_Dealer\_Correlation

**Tab 2**

﻿Sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat 0310\_win\_loss\_player\_data | grep -

05:00:00 AM -$82,348 Amirah Schneider,Nola Portillo, Mylie Schmidt,Suhayb Maguire,Millicent Betts,Avi Graves

08:00:00 AM -$97,383 Chanelle Tapia, Shelley Dodson , Valentino Smith, Mylie Schmidt

02:00:00 PM -$82,348 Jaden Clarkson, Kaidan Sheridan, Mylie Schmidt

08:00:00 PM -$65,348 Mylie Schmidt, Trixie Velasquez, Jerome Klein ,Rahma Buckley

11:00:00 PM -$88,383 Mcfadden Wasim, Norman Cooper, Mylie Schmidt

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ clear

**sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat 03\* | grep -**

05:00:00 AM -$82,348 Amirah Schneider,Nola Portillo, Mylie Schmidt,Suhayb Maguire,Millicent Betts,Avi Graves

08:00:00 AM -$97,383 Chanelle Tapia, Shelley Dodson , Valentino Smith, Mylie Schmidt

02:00:00 PM -$82,348 Jaden Clarkson, Kaidan Sheridan, Mylie Schmidt

08:00:00 PM -$65,348 Mylie Schmidt, Trixie Velasquez, Jerome Klein ,Rahma Buckley

11:00:00 PM -$88,383 Mcfadden Wasim, Norman Cooper, Mylie Schmidt

05:00:00 AM -$182,300 Montana Kirk, Alysia Goodman, Halima Little, Etienne Brady, Mylie Schmidt

08:00:00 AM -$97,383 Rimsha Gardiner,Fern Cleveland, Mylie Schmidt,Kobe Higgins

02:00:00 PM -$82,348 Mae Hail, Mylie Schmidt,Ayden Beil

08:00:00 PM -$65,792 Tallulah Rawlings,Josie Dawe, Mylie Schmidt,Hakim Stott, Esther Callaghan, Ciaron Villanueva

11:00:00 PM -$88,229 Vlad Hatfield,Kerys Frazier,Mya Butler, Mylie Schmidt,Lex Oakley,Elin Wormald

05:00:00 AM -$82,844 Arjan Guzman,Sommer Mann, Mylie Schmidt

08:00:00 AM -$97,001 Lilianna Devlin,Brendan Lester, Mylie Schmidt,Blade Robertson,Derrick Schroeder

02:00:00 PM -$182,419 Mylie Schmidt, Corey Huffman

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat 03\* | grep - > Roulette\_Losses

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ ls

0310\_win\_loss\_player\_data 0315\_win\_loss\_player\_data Roulette\_Losses

0312\_win\_loss\_player\_data Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat Roulette\_Losses

05:00:00 AM -$82,348 Amirah Schneider,Nola Portillo, Mylie Schmidt,Suhayb Maguire,Millicent Betts,Avi Graves

08:00:00 AM -$97,383 Chanelle Tapia, Shelley Dodson , Valentino Smith, Mylie Schmidt

02:00:00 PM -$82,348 Jaden Clarkson, Kaidan Sheridan, Mylie Schmidt

08:00:00 PM -$65,348 Mylie Schmidt, Trixie Velasquez, Jerome Klein ,Rahma Buckley

11:00:00 PM -$88,383 Mcfadden Wasim, Norman Cooper, Mylie Schmidt

05:00:00 AM -$182,300 Montana Kirk, Alysia Goodman, Halima Little, Etienne Brady, Mylie Schmidt

08:00:00 AM -$97,383 Rimsha Gardiner,Fern Cleveland, Mylie Schmidt,Kobe Higgins

02:00:00 PM -$82,348 Mae Hail, Mylie Schmidt,Ayden Beil

08:00:00 PM -$65,792 Tallulah Rawlings,Josie Dawe, Mylie Schmidt,Hakim Stott, Esther Callaghan, Ciaron Villanueva

11:00:00 PM -$88,229 Vlad Hatfield,Kerys Frazier,Mya Butler, Mylie Schmidt,Lex Oakley,Elin Wormald

05:00:00 AM -$82,844 Arjan Guzman,Sommer Mann, Mylie Schmidt

08:00:00 AM -$97,001 Lilianna Devlin,Brendan Lester, Mylie Schmidt,Blade Robertson,Derrick Schroeder

02:00:00 PM -$182,419 Mylie Schmidt, Corey Huffman

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat Roulette\_Losses | grep -i mylie

05:00:00 AM -$82,348 Amirah Schneider,Nola Portillo, Mylie Schmidt,Suhayb Maguire,Millicent Betts,Avi Graves

08:00:00 AM -$97,383 Chanelle Tapia, Shelley Dodson , Valentino Smith, Mylie Schmidt

02:00:00 PM -$82,348 Jaden Clarkson, Kaidan Sheridan, Mylie Schmidt

08:00:00 PM -$65,348 Mylie Schmidt, Trixie Velasquez, Jerome Klein ,Rahma Buckley

11:00:00 PM -$88,383 Mcfadden Wasim, Norman Cooper, Mylie Schmidt

05:00:00 AM -$182,300 Montana Kirk, Alysia Goodman, Halima Little, Etienne Brady, Mylie Schmidt

08:00:00 AM -$97,383 Rimsha Gardiner,Fern Cleveland, Mylie Schmidt,Kobe Higgins

02:00:00 PM -$82,348 Mae Hail, Mylie Schmidt,Ayden Beil

08:00:00 PM -$65,792 Tallulah Rawlings,Josie Dawe, Mylie Schmidt,Hakim Stott, Esther Callaghan, Ciaron Villanueva

11:00:00 PM -$88,229 Vlad Hatfield,Kerys Frazier,Mya Butler, Mylie Schmidt,Lex Oakley,Elin Wormald

05:00:00 AM -$82,844 Arjan Guzman,Sommer Mann, Mylie Schmidt

08:00:00 AM -$97,001 Lilianna Devlin,Brendan Lester, Mylie Schmidt,Blade Robertson,Derrick Schroeder

02:00:00 PM -$182,419 Mylie Schmidt, Corey Huffman

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ nano Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat Notes\_Player\_Analysis

Found Mylie S. on every loss

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat Roulette\_Losses | grep -i mylie | wc -l

13

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ echo "found 13 times" >> Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ cat Notes\_Player\_Analysis

Found Mylie S. on every loss

found 13 times

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$ ls

0310\_win\_loss\_player\_data 0315\_win\_loss\_player\_data Roulette\_Losses

0312\_win\_loss\_player\_data Notes\_Player\_Analysis

sysadmin@UbuntuDesktop:~/Lucky\_Duck\_Investigation/Roulette\_Loss\_Investigation/Player\_Analysis$

History

60 cd Lucky\_Duck\_Investigation/

61 ls

62 ls \*

63 cd Roulette\_Loss\_Investigation/

64 ls

65 cd Dealer\_Analysis/

66 pwd

67 clear

68 ls

69 cd ../Player\_Analysis/

70 ls

71 pwd

72 ls

73 clear

74 ls

75 cat 0310\_win\_loss\_player\_data

76 cat 0310\_win\_loss\_player\_data | grep -

77 clear

78 cat 03\* | grep -

79 cat 03\* | grep - > Roulette\_Losses

80 ls

81 cat Roulette\_Losses

82 cat Roulette\_Losses | grep -i mylie

83 nano Notes\_Player\_Analysis

84 cat Notes\_Player\_Analysis

85 cat Roulette\_Losses | grep -i mylie | wc -l

86 echo "found 13 times" >> Notes\_Player\_Analysis

87 cat Notes\_Player\_Analysis

88 ls

89 history