Module 3 Challenge: A High-Stakes Investigation

Step 1: Investigation preparation.

- Create a single directory titled Lucky_Duck_Investigation mkdir Lucky_Duck_Investigation
- Inside this, create a directory for investigation Roulette_Loss_Investigation cd Lucky_Duck_Investigation mkdir Roulette_Loss_Investigation
- 3. Inside this, create three directories Player_Analysis, Dealer_Analysis, Player_Dealer_Correlation mkdir Player_Analysis Dealer_Analysis Player_Dealer_Correlation
- 4. Create empty files called Notes_Player_Analysis.txt, Notes_Dealer_Analysis.txt, and Notes_Player_Dealer_Correlation.txt in each subdirectory.

```
cd Player_Analysis
touch Notes_Player_Analysis.txt

cd ../
cd Dealer_Analysis
touch Notes_Dealer_Analysis.txt

cd ../
cd Player_Dealer_Correlation
touch Player_Dealer_Correlation.txt
```

Completed as instructed:

Step 2: Gathering Evidence

- 1. From Home directory, the following command is run: wget "<a href="https://drive.google.com/uc?id=1ZLY_fuFu3wz7tOlxf-GUrnvp3htuGKSa" -O 3-HW-setup-evidence && chmod +x ./3-HW-setup-evidence && .
- 2. This command adds two more directories in current directory.
 - Dealer_Schedules_0310, &Roulette Player WinLoss 0310

Completed as instructed:

3. Since the losses occurred on March 10, 12 and 15, move the schedules for those days into the directory Dealer_Analysis

From Home directory:

```
mv ./Dealer_Schedules_0310/0310_Dealer_schedule.txt ./Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_Analysis/mv ./Dealer_Schedules_0310/0312_Dealer_schedule.txt ./Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_Analysis/mv ./Dealer_Schedules_0310/0315_Dealer_schedule.txt ./Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_Analysis/
```

4. Move the WinLoss Player Data files for those days into the directory Player_Analysis.

From Home directory:

```
mv ./Roulette_Player_WinLoss_0310/0310_win_loss_player_data.txt ./Lucky_Duck_Investigations/Roulette_Loss_Investigation/Player_Analysis/mv ./Roulette_Player_WinLoss_0310/0312_win_loss_player_data.txt ./Lucky_Duck_Investigations/Roulette_Loss_Investigation/Player_Analysis/mv ./Roulette_Player_WinLoss_0310/0315_win_loss_player_data.txt ./Lucky_Duck_Investigations/Roulette_Loss_Investigation/Player_Analysis/
```

Step 3: Correlating the Evidence: Correlate the large losses from the Roulette tables with the dealer schedules.

- 1. Complete the player analysis:
- a. Use grep to isolate all of the losses that occurred on March 10,12 and 15. grep "-" \ast
- b. Place those results in a file called Roulette_Losses.txt grep "-" * > Roulette Losses.txt

- c. Fill in the analysis in Notes_Player_Analysis.txt with the followings:
 - a. The time losses occurred on each day. grep "0310" Roulette_Losses.txt | awk -F'[:"_"" "]' '{print \$1, \$6, \$9} grep "0312" Roulette_Losses.txt | awk -F'[:"_"" "]' '{print \$1, \$6, \$9}

```
grep "0315" Roulette_Losses.txt | awk -F'[:"_"" "]' '{print $1, $6, $9}
```

(this also gets the first name of the player on the list, which I don't know how to omit)

• If there is a certain player who was playing during each losses -- Mylie was there playing on given days and times.

```
grep "Mylie" Roulette_Losses.txt | awk -F'[:"_"" "]' '{print $1, $6, $9}'
```

Grep "Mylie" Roulette_Losses.txt | wc -l

Total times this player was playing:
 grep -wo "Mylie" Roulette Losses.txt | uniq -c

To count all possible players and see how many times they were playing:

Didn't used this:

```
grep -o -w '[[:alpha:]]\+' Roulette_Losses.txt | awk '{ count[$0]++ } END { for
(name in count) print name, count[name] }' | sort -k2nr
```

Dealer Analysis

a. grep "05:00:00 AM" 0310_Dealer_schedule.txt | awk -F '\t' '{print \$1, \$2, \$3, \$4}' > Notes_Dealer_Analysis.txt

```
syndminym-image-ubuntu-dev-1:-/Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_AnalysisS_crep **08:00:00 AM** 0310 Dealer schedule.txt | awk - F '\t' '(print $1, $2, $3, $4)' > Notes Dealer Analysis.txt syndminym-image-ubuntu-dev-1:-/Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_AnalysisS_crep **08:00:00 AM** 0310 Dealer schedule.txt | awk - F '\t' '(print $1, $2, $3, $4)' > Notes Dealer Analysis.txt syndminym-image-ubuntu-dev-1:-/Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_AnalysisS_crep **08:00:00 AM** 0310 Dealer schedule.txt | awk - F '\t' '(print $1, $2, $3, $4)' > Notes Dealer Analysis.txt syndminym-image-ubuntu-dev-1:-/Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_AnalysisS_crep **08:00:00 AM** 0310 Dealer schedule.txt | awk - F '\t' '(print $1, $2, $3, $4)' > Notes Dealer Analysis.txt syndminym-image-ubuntu-dev-1:-/Lucky_Duck_Investigations/Roulette_Loss_Investigation/Dealer_AnalysisS_crep **08:00:00 AM** 0310 Dealer schedule.txt | awk - F '\t' '(print $1, $2, $3, $4)' > Notes Dealer Analysis.txt 05:00:00 AM** Rative Bean Billy_Jones Evalyn Howell | object to the standard of the st
```

grep "AM" Dealers_working_during_losses.txt | awk -F '\t' '{print $$1, $2, $3, $4}$ ' | awk -F[" "] '{print $$1, $2, $5, $6}$ ' > Notes_Dealer_Analysis.txt

grep "PM" Dealers_working_during_losses.txt | awk -F '\t' '{print \$1, \$2, \$3, \$4}' | awk -F[" "] '{print \$5, \$6}' | uniq -c >> Notes_Dealer_Analysis.txt

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```

Step 3: Correlating the Evidence

Player_Dealer_Correlation

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```

Putting the finding summary: Only the summary bits are edited manually.

```
File Edit View Search Terminal Help

GNU nano 4.8

Notes Player Dealer Correlation.txt

08:00:00 AM Billy Jones

08:00:00 PM Billy Jones

08:00:00 PM Billy Jones

08:00:00 PM Billy Jones

11:00:00 PM Billy Jones

08:00:00 PM Billy Jones

08:00:00 PM Billy Jones

08:00:00 PM Billy Jones

11:00:00 PM Billy Jones

08:00:00 PM Billy Jones

08:00:00 PM Billy Jones

08:00:00 PM Billy Jones

11:00:00 PM Billy Jones

08:00:00 PM Billy Jones

11:00:00 PM Billy Jones

10:00:00 PM Billy Jones

10:00:00
```

Writing scripts:

```
File Edit View Search Terminal Help

GNU nano 4.8

L/bin/bash

cat $1_Dealer_schedule.txt | awk -F" " '{print $1, $2, $5, $6}' | grep "$2"
```

Compressing the files: Completed as per the instructions.

Submitting the Google link: Completed as per the instructions.

The End.