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

**Script for 0310 @ 5:00 AM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '05:00:00 AM' 0310\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0310\_Dealers\_Loss5am.sh

**Script for 0310 @ 8:00 AM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '08:00:00 AM' 0310\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0310\_Dealers\_Loss8am.sh

**Script for 0310 @ 2:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '02:00:00 PM' 0310\_Dealer\_schedule | awk -F" " '{print $1, $2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0310\_Dealers\_Loss2pm.sh

**Script for 0310 @ 8:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '08:00:00 PM' 0310\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0310\_Dealers\_Loss8pm.sh

**Script for 0310 @ 11:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '11:00:00 PM' 0310\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0310\_Dealers\_Loss2pm.sh

**Script for 0312 @ 5:00 AM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '05:00:00 AM' 0312\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0312\_Dealers\_Loss5am.sh

**Script for 0312 @ 8:00 AM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '08:00:00 AM' 0312\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0312\_Dealers\_Loss8am.sh

**Script for 0312 @ 2:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '02:00:00 PM' 0312\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5, $6}' >> Dealers\_working\_during\_losses.txt

cat 0312\_Dealers\_Loss2pm.sh

**Script for 0312 @ 8:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '08:00:00 PM' 0312\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5, $6}' >> Dealers\_working\_during\_losses.txt

cat 0312\_Dealers\_Loss8pm.sh

**Script for 0312 @ 11:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '11:00:00 PM' 0312\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5, $6}' >> Dealers\_working\_during\_losses.txt

cat 0312\_Dealers\_Loss11pm.sh

**Script for 0315 @ 5:00 AM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '05:00:00 AM' 0315\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0315\_Dealers\_Loss5am.sh

**Script for 0315 @ 8:00 AM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '08:00:00 AM' 0315\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0315\_Dealers\_Loss8am.sh

**Script for 0315 @ 2:00 PM**

#!/bin/bash

#This script is the findings for each day and time of losses in Roulette games.

#grep -i '02:00:00 PM' 0315\_Dealer\_schedule | awk -F" " '{print $1,$2, $5,$6}'

grep -i "$1 $2" $3 | awk -F" " '{print $1, $2, $5,$6}' >> Dealers\_working\_during\_losses.txt

cat 0315\_Dealers\_Loss2pm.sh

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.

The primary dealer working at the times where losses occurred was Billy Jones.

How many times the dealer worked when major losses occurred Billy Jones worked every time there was a loss which was 13 times.

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.

Summary:

The collected data of the dealers and the players show that all the losses were during the Roulette games.  It revealed that dealer Billy Jones was a dealer during each loss and player Mylie Schmidt was the player for all thirteen of the losses.  The losses occurred over the course of three days at multiple time during each day, so it is unlikely that it is a coincidence.

Billy Jones worked on 0310.  Losses occurred at 5:00 a.m., 8:00 a.m., 2:00 p.m., 8:00 p.m., and 11:00 p.m.

On 0312, Billy Jones worked.  Losses occurred again at 5:00 a.m., 8:00 a.m., 2:00 p.m., 8:00 p.m., and 11:00 p.m.

Billy Jones worked on 0315.  Losses occurred at 5:00 a.m., 8:00 a.m., 2:00 p.m.

Mylie Schmidt played the Roulette game during each time for every loss.

**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.

nano 0310\_roulette\_dealer\_finder\_by\_05:00.sh

GNU nano 2.9.3                                                                        roulette\_dealer\_finder\_by\_time.sh

#!/bin/bash

# This shell script that will analyse the employee scedule to easliy find the roulette dealer at a specific time.

# input to accept the following two arguments:

# One for the date  (four digits)

# One for the time (AM or PM)

grep -i "$2 $3" $1\_Dealer\_schedule | awk -F " " '{print$1,$2,$3,$4,$5,$6,$7}'