

Lab5-2_ScrapingChamplainClasses
SYS-320
Ben W
SP24

Deliverables:

1. List all the classes of the instructor Furkan Paligu

```
1 # Powershell Script
2 # SYS-320 - Ben W
3
4 cd $PSScriptRoot
5
6 . .\ScrapeFunction.ps1
7
8 $table = gatherClasses
9
10 $fulltable = daysTranslator $table
11
12 $fulltable | select-object "Class Code", Instructor, Location, Days, "Time Start", "Time End" | ? { $_.Instructor -ilike "Furkan*" }
```

```
Class Code : SEC 260-01
Instructor : Furkan Paligu
Location   : JOYC 310
Days       : {Tuesday, Friday}
Time Start : 1PM
Time End   : 2:15PM

Class Code : SEC 260-02
Instructor : Furkan Paligu
Location   : GBTC 017
Days       : {Monday, Thursday}
Time Start : 4PM
Time End   : 5:15PM

Class Code : SEC 335-51
Instructor : Furkan Paligu
Location   : JOYC 310
Days       : {Monday}
Time Start : 5:30PM
Time End   : 8:15PM

Class Code : SYS 320-01
Instructor : Furkan Paligu
Location   : JOYC 310
Days       : {Friday}
Time Start : 10AM
Time End   : 12:45PM
```

2. List all the classes of JOYC 310 on Mondays, only display Class Code and Times. Sort by Start Time

```
1 # Powershell Script
2 # SYS-320 - Ben W
3
4 cd $PSScriptRoot
5
6 . .\ScrapeFunction.ps1
7
8 $table = gatherClasses
9
10 $fulltable = daysTranslator $table
11
12 # $fulltable | select-object "Class Code", Instructor, Location, Days, "Time Start", "Time End" | ? { $_.Instructor -ilike "Furkan*" }
13
14 $fulltable | ? { ($_.Location -ilike "JOYC 310") -and($_.Days -contains "Monday")} | sort-object "Time Start" | select-object "Time Start", "Time End", "Class Code"
```

PS C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab05-2> C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab05-2\Deliverable2.ps1

Time Start	Time End	Class Code
10AM	12:45PM	SYS 265-01
1PM	2:15PM	SEC 260-03
2:30PM	3:45PM	SEC 250-02
4PM	5:15PM	SEC 345-72
5:30PM	8:15PM	SEC 335-51

3. Make a list of all the instructors that teach at least 1 course in one of the courses: SYS, NET, SEC, FOR, CSI, DAT. Sort by name and make it unique

```
7
8 $table = gatherClasses
9
10 $FullTable = daysTranslator $table
11
12 # $FullTable | select-Object "Class Code", Instructor, Location, Days, "Ti
13
14 # $FullTable | ? { ($_.Location -ilike "JOYC 310") -and($_.Days -contains '
15
16 $ITSInstructors = $FullTable | ? { ($_. "Class Code" -ilike "SYS*") -or `
17     ($_. "Class Code" -ilike "NET*") -or `
18     ($_. "Class Code" -ilike "SEC*") -or `
19     ($_. "Class Code" -ilike "FOR*") -or `
20     ($_. "Class Code" -ilike "CSI*") -or `
21     ($_. "Class Code" -ilike "DAT*") } `
22     | select-Object "Instructor" `
23     | sort-Object "Instructor" -Unique
24 $ITSInstructors
25
```

```
Instructor
-----
Adam Goldstein
Alexandre Tolstenko Nogueira
Ali Hadi
Amy Keigwin
Brian Hall
Christopher Bendel
David Ginter
Eric Shore
Frank Canovatchel
Furkan Paligu
Joe Eastman
Joseph Letourneau
Lakysha Patnode
Mariam Khader
Morgan Seielstad
Murat Gungor
Ryan Gillen
Sarah Pettitt
Scott Barrett
Syed Ali
Thomas Claflin
Vikas Thammanna Gowda
Wei Kian Chen
```

4. Group all the instructors by the number of classes they are teaching, sort by the number of classes they are teaching

```
$ITSInstructors = $FullTable | ? { ($_.Class Code -ilike "SYS*") -or `
    ($_.Class Code -ilike "NET*") -or `
    ($_.Class Code -ilike "SEC*") -or `
    ($_.Class Code -ilike "FOR*") -or `
    ($_.Class Code -ilike "CSI*") -or `
    ($_.Class Code -ilike "DAT*") } `
    | Select-Object "Instructor" `
    | Sort-Object "Instructor" -Unique

$FullTable | ? { $_.Instructor -in $ITSInstructors.Instructor } `
    | Group-Object "Instructor" | Select-Object Count, Name `
    | Sort-Object Count -Descending
```

```
nt Name
-- ----
4 Wei Kian Chen
4 Joe Eastman
4 Mariam Khader
4 Vikas Thammanna Gowda
4 Sarah Pettitt
4 David Ginter
4 Alexandre Tolstenko Nogueira
4 Scott Barrett
4 Adam Goldstein
4 Syed Ali
4 Furkan Paligu
4 Joseph Letourneau
3 Ali Hadi
3 Ryan Gillen
3 Frank Canovatchel
3 Murat Gungor
2 Brian Hall
2 Amy Keigwin
2 Christopher Bendel
1 Morgan Seielstad
1 Lakysa Patnode
1 Thomas Claflin
1 Eric Shore
```

5. Github Link:

<https://github.com/benjamin-weatherill/SYS-320/tree/main/PowershellLabs/Lab05-2>