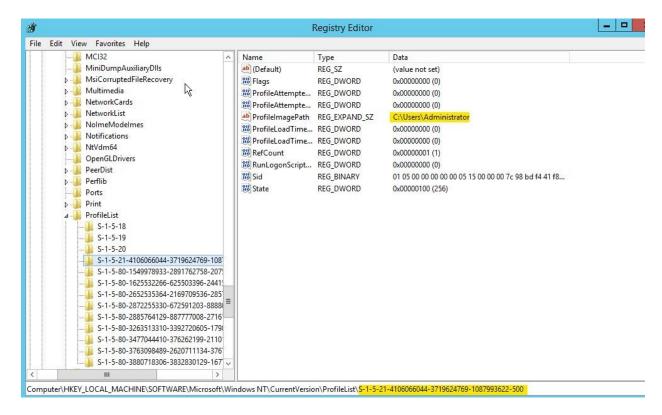
Lab 4 – SID, PowerShell

Task 1: Getting SID, SAT on Windows

• Obtain the SID of the current login with **WMIC** command. Attach a screenshot for the SID and highlight it in red/yellow.

```
CH.
                                                                     Administrator: Command Prompt
C:\Users\Administrator>wmic useraccout get name,sid
useraccout — Alias not found.
C:\Users\Administrator>wmic useraccount get name,sid
Name SID
  dministrator
                                                    -21-4106066044
-21-4106066044
CIS483Admin
                                     $-1-5-21-4106066044-3717624767-1087773622
$-1-5-21-4106066044-3717624767-10877973622
$-1-5-21-4106066044-3717624769-1087973622
$-1-5-21-4106066044-3717624769-1087973622
$-1-5-21-4106066044-3717624769-1087973622
Guest
MSSQLSERVERØ1
  15SQLSERVERØ1
ISSQLSERVERØ3
ISSQLSERVERØ4
ISSQLSERVERØ4
ISSQLSERVERØ5
ISSQLSERVERØ7
ISSQLSERVERØ8
ISSQLSERVERØ8
                                                    21-4106066044
21-4106066044
  ISSQLSERVER10
ISSQLSERVER11
ISSQLSERVER12
ISSQLSERVER13
                                                         -4106066044-
-4106066044-
-4106066044-
                                                           -1106066044-3717624769
-4106066044-3717624769
-4106066044-3717624769
-4106066044-3717624769
-4106066044-3717624769
-4106066044-3717624769
  ISSÕLSERVER14
ISSÕLSERVER15
ISSÕLSERVER16
                                                                                                                   1087993622
                                                                                                                   1087993622
                                                   -21-4106066044-3719624769-1087993622-1021
```

• Obtain the SID of the current login in the Registry. Attach a screenshot for the SID and highlight it in red/yellow.



Task 2: Getting SID on SQL Server

Get the SID of the account you used for SQL Server login.

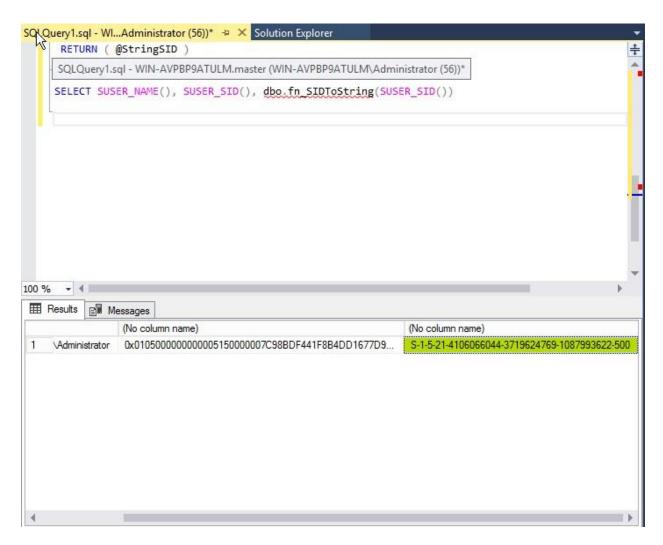
A. SID for WIN-AVPBP9ATULM\Administrator: 0x01050000000005150000007C98BDF441F8B4DD1677D940F4010000

B. What is the role of the function "fn SIDToString" in the above?

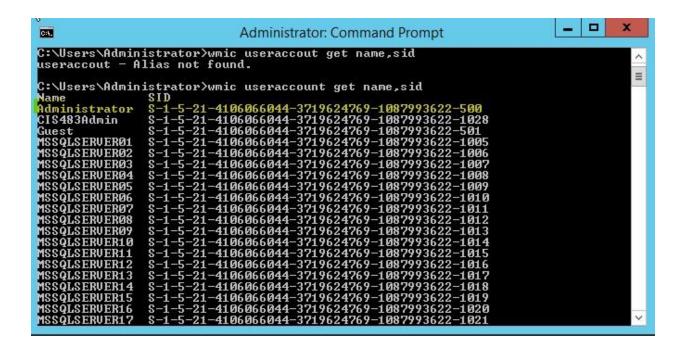
It takes a binary SID ('@BinSID') and converts the input into a string

C. Compare the SID from SQL Server for the administrator login with that from Windows Server for the administrator. Show the two screenshots. Use the SIDs in a string format (that is, in the S- format, not in Hex). Are they the same?

The SID of the administrator login from SQL Server (show the S-format)



The SID of the administrator login from Windows Server (show the S-format)



They are the same

D. SID: 0xCBD189CBF1CE5E4BAE1310033D61F163

E. SID: 0XEE7C4ECFC463DE49BBD62A1C5E434372

F. Are the SIDs of login SIDTest the same? Describe the reason why they are (not) the same?

They are not the same. SQL server generates a random new SID for security purposes whenever you create, drop, and recreate an account even if it's the same account.

Task 3: Learn PowerShell Scripting

• Run your script and report the output in a screenshot.

