



Universidade Federal do Ceará - Campus de Quixadá

Bacharelado em Sistemas de Informação

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Disciplina: Desenvolvimento de Software para Persistência

Lista de exercícios 02 - Questão 03

Escolha e baixe um arquivo csv de no mínimo 1 MB, a partir da plataforma Kaggle (<https://www.kaggle.com/datasets>) e use-o nas questões a seguir.

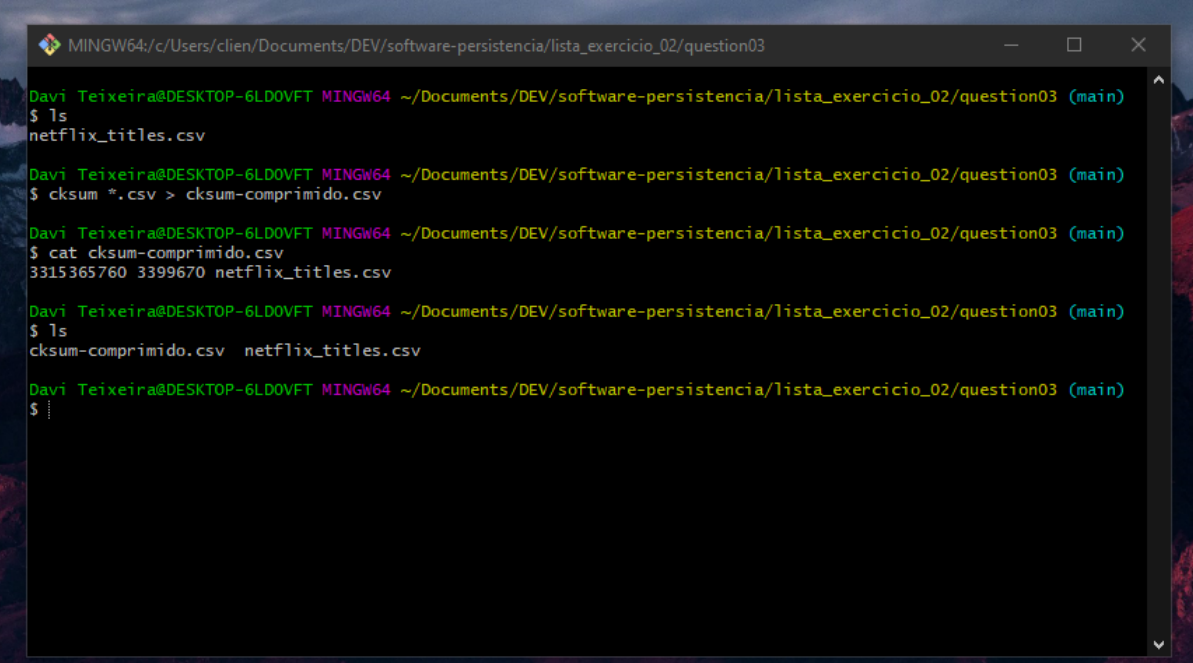
Arquivo escolhido:

The screenshot displays the Kaggle interface for the dataset 'Dataset: NetFlix Shows' by the user 'infamouscoder'. The page includes a search bar, navigation links, and a sidebar with options like 'Create', 'Home', 'Competitions', 'Datasets', 'Code', 'Discussions', 'Courses', 'More', and 'Your Work'. The main content area shows the dataset title, a description of approximately 9000 NetFlix English Shows with full details, and a 'Download (1 MB)' button. Below this, there are tabs for 'Data', 'Code (3)', 'Discussion (0)', and 'Metadata'. The 'About Dataset' section provides more information about the data source and content. The 'Usability' score is 10.00, and the 'License' is CC0: Public Domain. The 'Expected update frequency' is also indicated.

Link: <https://www.kaggle.com/datasets/infamouscoder/dataset-netflix-shows>

Gere as somas checksum, md5 e sha1 do arquivo usando utilitários de linha de comando do próprio sistema operacional ou instalado nele.

Soma CheckSum

A terminal window titled 'MINGW64:/c/Users/clien/Documents/DEV/software-persistencia/lista_exercicio_02/question03'. The user 'Davi Teixeira@DESKTOP-6LD0VFT' is in a 'MINGW64' shell. The terminal shows the following commands and output:

```
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
netflix_titles.csv

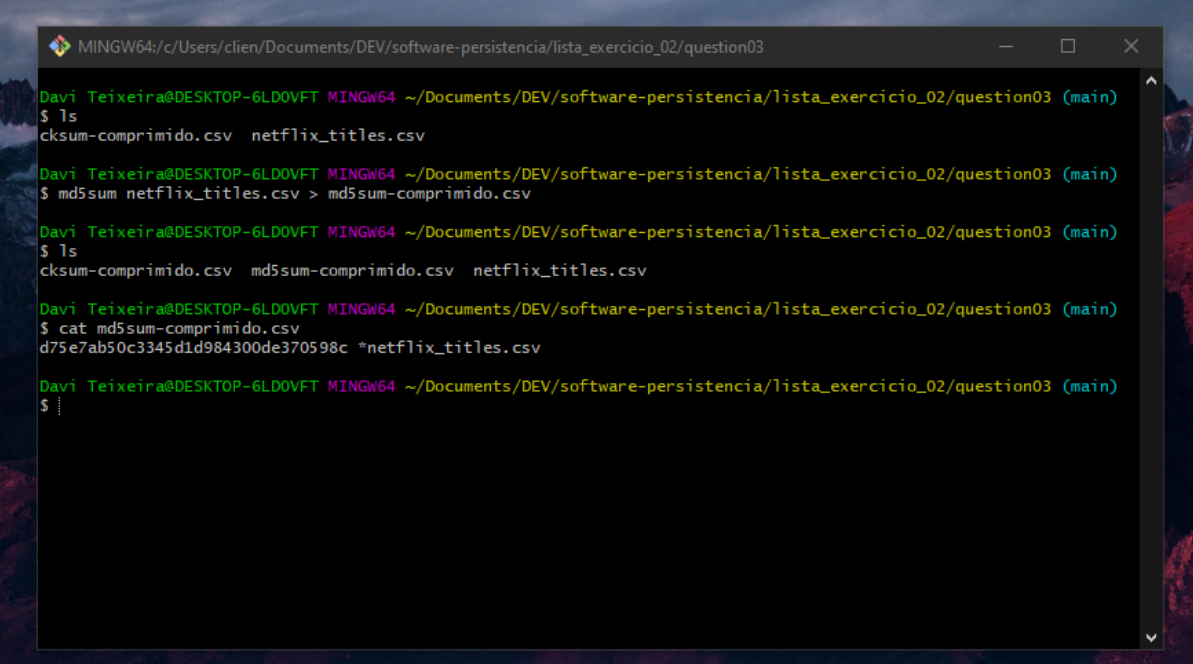
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ cksum *.csv > cksum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ cat cksum-comprimido.csv
3315365760 3399670 netflix_titles.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  netflix_titles.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$
```

Soma Md5

A terminal window titled 'MINGW64:/c/Users/clien/Documents/DEV/software-persistencia/lista_exercicio_02/question03'. The user 'Davi Teixeira@DESKTOP-6LD0VFT' is in a 'MINGW64' shell. The terminal shows the following commands and output:

```
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  netflix_titles.csv

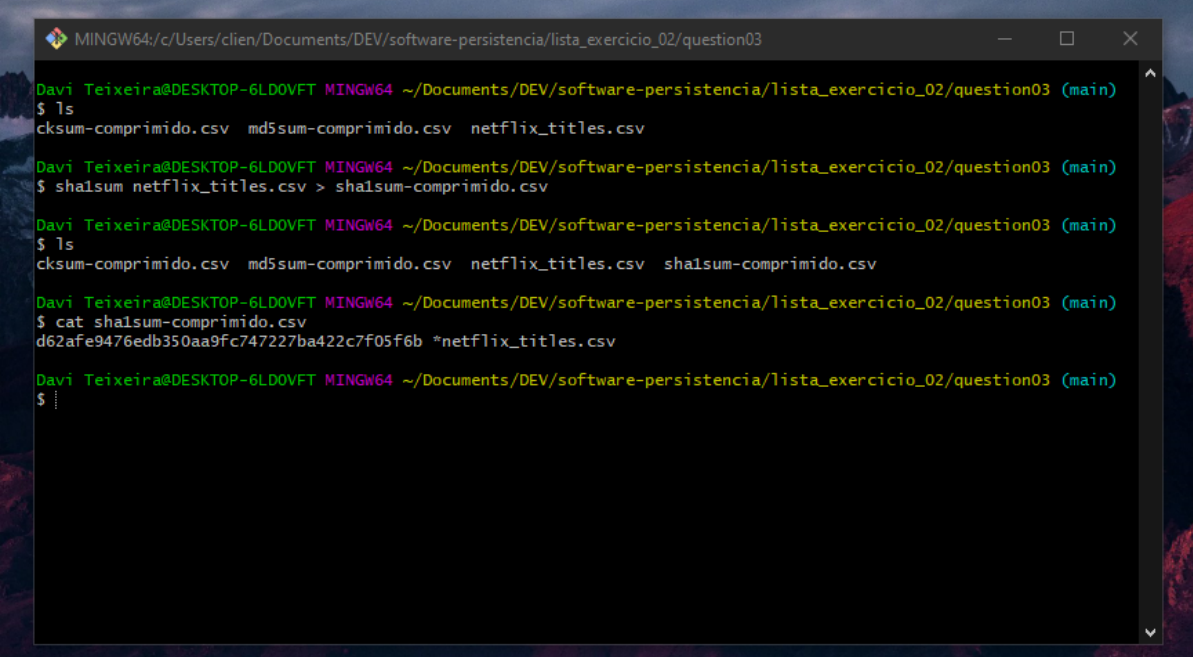
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ md5sum netflix_titles.csv > md5sum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ cat md5sum-comprimido.csv
d75e7ab50c3345d1d984300de370598c *netflix_titles.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$
```

Soma Sha1

A terminal window titled 'MINGW64: c:/Users/clien/Documents/DEV/software-persistencia/lista_exercicio_02/question03'. The user 'Davi Teixeira@DESKTOP-6LD0VFT' is in the 'MINGW64' environment. The terminal shows the following commands and output:

```
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ sha1sum netflix_titles.csv > sha1sum-comprimido.csv

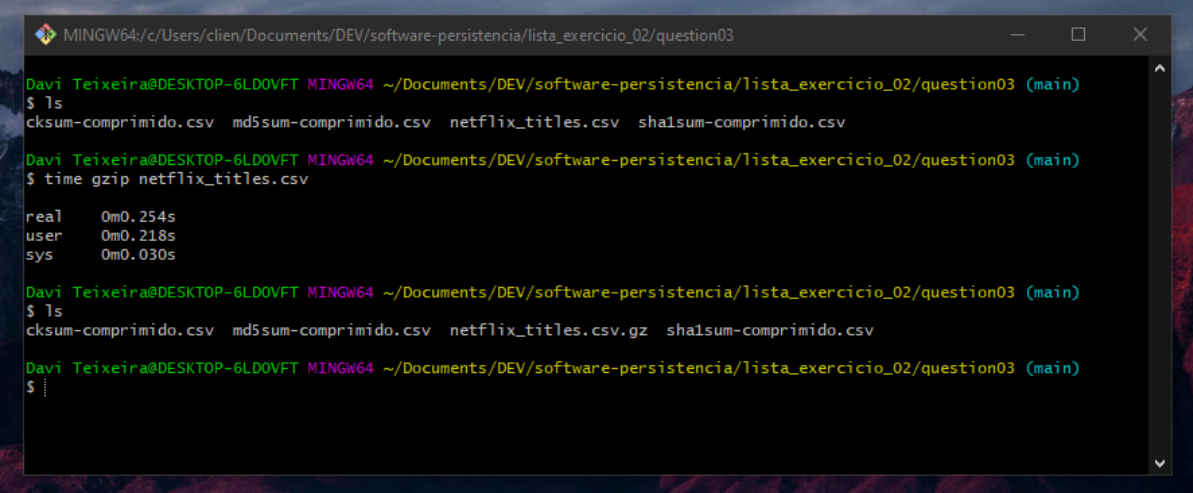
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv  sha1sum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ cat sha1sum-comprimido.csv
d62afe9476edb350aa9fc747227ba422c7f05f6b *netflix_titles.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$
```

Compactando arquivos

Time GZIP

A terminal window titled 'MINGW64: c:/Users/clien/Documents/DEV/software-persistencia/lista_exercicio_02/question03'. The user 'Davi Teixeira@DESKTOP-6LD0VFT' is in the 'MINGW64' environment. The terminal shows the following commands and output:

```
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv  sha1sum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ time gzip netflix_titles.csv

real    0m0.254s
user    0m0.218s
sys     0m0.030s

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv.gz  sha1sum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$
```

Tamanho de todos os arquivos

```
MINGW64/c/Users/clien/Documents/DEV/software-persistencia/lista_exercicio_02/question03
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv  shasum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ time gzip netflix_titles.csv

real    0m0.254s
user    0m0.218s
sys     0m0.030s

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv.gz  shasum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls -lah
total 4.6M
drwxr-xr-x 1 Davi Teixeira 197121  0 Aug 30 21:52 ./
drwxr-xr-x 1 Davi Teixeira 197121  0 Aug 30 18:30 ../
-rw-r--r-- 1 Davi Teixeira 197121  38 Aug 30 20:26 cksum-comprimido.csv
-rw-r--r-- 1 Davi Teixeira 197121  53 Aug 30 20:38 md5sum-comprimido.csv
-rw-r--r-- 1 Davi Teixeira 197121 3.3M Aug 11 05:05 netflix_titles.csv
-rw-r--r-- 1 Davi Teixeira 197121 1.4M Aug 11 05:05 netflix_titles.csv.gz
-rw-r--r-- 1 Davi Teixeira 197121  61 Aug 30 20:43 shasum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ !
```

Erros ao tentar usar os comandos Zip e Rar

```
MINGW64/c/Users/clien/Documents/DEV/software-persistencia/lista_exercicio_02/question03
Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ ls
cksum-comprimido.csv  md5sum-comprimido.csv  netflix_titles.csv  netflix_titles.csv.gz  shasum-comprimido.csv

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ time zip netflix_titles.csv
bash: zip: command not found

real    0m0.030s
user    0m0.015s
sys     0m0.015s

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ time rar netflix_titles.csv
bash: rar: command not found

real    0m0.027s
user    0m0.000s
sys     0m0.000s

Davi Teixeira@DESKTOP-6LD0VFT MINGW64 ~/Documents/DEV/software-persistencia/lista_exercicio_02/question03 (main)
$ !
```