**Homework 4 SHRUTI\_SONI**

**Topic: To inject the Database**

**Steps to create text files and zip file :**

1. make the text file using grep command, awk command and head command to look files.
2. Create mac file.txt, ip file,.txt device type.txt
3. Make a zip folder and add text files to zip file.

root@kali:~# **grep for ips.txt > myip.txt**  
root@kali**:~# tail ips.txt**MAC Address: 98:90:96:E3:3A:D9 (Dell)  
Nmap scan report for 172.22.9.222  
Host is up (0.00068s latency).  
MAC Address: B8:CA:3A:BC:DA:AE (Dell)  
Nmap scan report for 172.22.9.224  
Host is up (0.00065s latency).  
MAC Address: D4:BE:D9:8D:9A:FE (Dell)  
Nmap scan report for 172.22.9.38  
Host is up.  
Nmap done: 512 IP addresses (62 hosts up) scanned in 1.73 seconds  
root@kali:~# **grep MAC  ips.txt > mac.txt**  
root@kali:~# **head ips.txt**  
  
Starting Nmap 7.40 ( https://nmap.org ) at 2017-09-30 15:20 UTC  
Nmap scan report for 172.22.8.1  
Host is up (0.0024s latency).  
MAC Address: 00:18:B9:37:4F:C7 (Cisco Systems)  
Nmap scan report for 172.22.8.60  
Host is up (0.0011s latency).  
MAC Address: 00:30:13:DF:32:36 (NEC)  
Nmap scan report for 172.22.8.61  
Host is up (0.00054s latency).  
root@kali:~# **grep MAC  ips.txt | cut -d' ' f4**cut: you must specify a list of bytes, characters, or fields  
Try 'cut --help' for more information.  
root@kali:~# **grep MAC  ips.txt | cut -d' ' -f4**  
(Cisco  
(NEC)  
(NEC)  
(NEC)  
(NEC)  
(Hewlett  
(Hewlett  
(Village  
(Village  
(Dell)  
(Dell)  
(Cisco  
(Dell)  
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root@kali:~# **grep MAC  ips.txt | cut -d' ' -f4-5**  
(Cisco Systems)  
(NEC)  
(NEC)  
(NEC)  
(NEC)  
(Hewlett Packard)  
(Hewlett Packard)  
(Village Tronic  
(Village Tronic  
(Dell)  
(Dell)  
(Cisco Systems)  
(Dell)  
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(Cisco Systems)  
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root@kali:~# **grep MAC  ips.txt | cut -d' ' -f4-5 > devtype.txt**root@kali:~# **awk -F"[()]" '{print $2}' devtype.txt**  
Cisco Systems  
NEC  
NEC  
NEC  
NEC  
Hewlett Packard  
Hewlett Packard  
Village Tronic  
Village Tronic  
Dell  
Dell  
Cisco Systems  
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Cisco Systems  
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root@kali**:~# ls myip.txt ips.txt mac.txt**ips.txt  mac.txt  myip.txt  
root@kali:~# **grep MAC ips.txt | cut -d' ' -f4-5 | tr -d '()' > devtype.txt**  
root@kali:~# **head devtype.txt**  
Cisco Systems  
NEC  
NEC  
NEC  
NEC  
Hewlett Packard  
Hewlett Packard  
Village Tronic  
Village Tronic  
Dell  
root@kali:~# **ls ips.txt myip.txt mac.txt devtype.txt**  
devtype.txt  ips.txt  mac.txt  myip.txt  
root@kali**:~# man zip**root@kali:~# **zip CST460\_390\_Lab7\_Part\_1\_Soni\_Shruti.zip ips.txt mac.txt myip.txt devtype.txt**  
  adding: ips.txt (deflated 84%)  
  adding: mac.txt (deflated 79%)  
  adding: myip.txt (deflated 90%)  
  adding: devtype.txt (deflated 79%)  
root@kali:~# ls  
CST460\_390\_Lab7\_Part\_1\_Soni\_Shruti.zip  Desktop  devtype.txt  Documents  Downloads  ips.txt  mac.txt  Music  myip.txt  Pictures  Public  Templates  Videos  
root@kali:~#

What is socket

port number

For Mysql Part:

**Steps:**

1. **Start services of mysql**
2. **Check the status if its running or not**
3. **Create database**
4. **Then use that DB to create table inside , define column name**
5. **Select database**
6. **Load the data files into database table file.**
7. **Then open the table and view data.**
8. **Apply query to change the database field**

**root@kali:~# service mysql start   
root@kali:~# \mysql**

Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 46  
Server version: 10.1.22-MariaDB- Debian 9.0  
Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> **create database student**;  
Query OK, 1 row affected (0.00 sec)  
  
MariaDB [(none)]> **use student**;  
Database changed  
MariaDB [student]> **show databases;**+--------------------+  
| Database           |  
+--------------------+  
| information\_schema |  
| mysql              |  
| performance\_schema |  
| student            |  
+--------------------+  
4 rows in set (0.00 sec)

root@kali**:~# show tables;**bash: show: command not found

MariaDB [(none)]> **create table networkdevices(mac varchar(17) not null primary key,ip varchar(255), devicetype varchar(255));**  
ERROR 1046 (3D000): No database selected  
MariaDB [(none)]> **use student**  
Database changed  
MariaDB [student]> **create table networkdevices(mac varchar(17) not null primary key,ip varchar(255), devicetype varchar(255));**  
Query OK, 0 rows affected (0.01 sec)  
  
MariaDB [student]> **select \* from networkdevices;**Empty set (0.00 sec)  
  
MariaDB [student]> **show tables;**+-------------------+  
| Tables\_in\_student |  
+-------------------+  
| networkdevices    |  
+-------------------+  
1 row in set (0.00 sec)  
  
MariaDB [student]>   
  
-----------------------------------------------------------------------

MariaDB [student]> **TRUNCATE TABLE NETWORKDEVICES**  
    ->   
    -> TRUNCATE TABLE NETWORKDEVICES;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'TRUNCATE TABLE NETWORKDEVICES' at line 3  
MariaDB [student]> Truncate table networkdevices;  
Query OK, 0 rows affected (0.00 sec)  
  
MariaDB [student]> **load data local infile '/root/tabledata.txt' into table networkdevices;**  
Query OK, 61 rows affected (0.00 sec)                  
Records: 61  Deleted: 0  Skipped: 0  Warnings: 0  
  
MariaDB [student]> **select \* from networkdevices;**+-------------------+--------------+-----------------+  
| mac               | ip           | devicetype      |  
+-------------------+--------------+-----------------+  
| 00:18:B9:37:4F:C7 | 172.22.8.1   | Cisco Systems   |  
| 00:23:7D:7C:25:59 | 172.22.8.100 | Hewlett Packard |  
| 00:23:7D:7C:E4:EE | 172.22.8.102 | Hewlett Packard |  
| 00:23:AE:9D:9C:BD | 172.22.9.214 | Dell            |  
| 00:25:5C:A2:A2:4C | 172.22.8.61  | NEC             |  
| 00:25:5C:A2:A3:D2 | 172.22.8.62  | NEC             |  
| 00:25:5C:CE:9A:8A | 172.22.8.63  | NEC             |  
| 00:30:13:DF:32:36 | 172.22.8.60  | NEC             |  
| 00:30:13:DF:4F:47 | 172.22.9.10  | NEC             |  
| 00:60:30:80:1A:F6 | 172.22.8.103 | Village Tronic  |  
| 00:60:30:B9:55:43 | 172.22.8.113 | Village Tronic  |  
| 18:03:73:31:DE:EC | 172.22.9.209 | Dell            |  
| 18:03:73:32:54:41 | 172.22.9.21  | Dell            |  
| 34:17:EB:B8:5E:0B | 172.22.9.32  | Dell            |  
| 98:90:96:DD:E3:43 | 172.22.9.17  | Dell            |  
| 98:90:96:DD:E7:C7 | 172.22.9.18  | Dell            |  
| 98:90:96:DD:EB:1D | 172.22.9.3   | Dell            |  
| 98:90:96:DD:EC:74 | 172.22.9.41  | Dell            |  
| 98:90:96:DD:EC:82 | 172.22.9.211 | Dell            |  
| 98:90:96:DE:23:33 | 172.22.9.26  | Dell            |  
| 98:90:96:DE:28:0F | 172.22.9.9   | Dell            |  
| 98:90:96:DE:28:AE | 172.22.9.29  | Dell            |  
| 98:90:96:DE:28:FA | 172.22.9.13  | Dell            |  
| 98:90:96:DE:29:09 | 172.22.9.40  | Dell            |  
| 98:90:96:DE:29:40 | 172.22.9.43  | Dell            |  
| 98:90:96:DE:2A:30 | 172.22.9.22  | Dell            |  
| 98:90:96:DE:2A:F2 | 172.22.9.15  | Dell            |  
| 98:90:96:DE:2B:06 | 172.22.9.24  | Dell            |  
| 98:90:96:DE:2B:2A | 172.22.9.28  | Dell            |  
| 98:90:96:DE:2B:35 | 172.22.9.213 | Dell            |  
| 98:90:96:E0:5C:EB | 172.22.9.8   | Dell            |  
| 98:90:96:E1:06:57 | 172.22.9.45  | Dell            |  
| 98:90:96:E1:0A:4A | 172.22.9.19  | Dell            |  
| 98:90:96:E1:0C:5D | 172.22.9.6   | Dell            |  
| 98:90:96:E1:0D:16 | 172.22.9.14  | Dell            |  
| 98:90:96:E1:0D:7C | 172.22.9.212 | Dell            |  
| 98:90:96:E1:0D:81 | 172.22.9.210 | Dell            |  
| 98:90:96:E1:10:54 | 172.22.9.25  | Dell            |  
| 98:90:96:E1:22:B5 | 172.22.9.37  | Dell            |  
| 98:90:96:E1:23:28 | 172.22.9.20  | Dell            |  
| 98:90:96:E1:23:43 | 172.22.9.7   | Dell            |  
| 98:90:96:E1:23:53 | 172.22.9.39  | Dell            |  
| 98:90:96:E1:27:0C | 172.22.9.5   | Dell            |  
| 98:90:96:E1:27:26 | 172.22.9.11  | Dell            |  
| 98:90:96:E1:28:C4 | 172.22.9.27  | Dell            |  
| 98:90:96:E1:28:DA | 172.22.9.16  | Dell            |  
| 98:90:96:E1:2A:32 | 172.22.9.208 | Dell            |  
| 98:90:96:E1:2A:79 | 172.22.9.36  | Dell            |  
| 98:90:96:E1:2B:98 | 172.22.9.216 | Dell            |  
| 98:90:96:E1:2C:F5 | 172.22.9.23  | Dell            |  
| 98:90:96:E3:35:A0 | 172.22.9.207 | Dell            |  
| 98:90:96:E3:3A:D9 | 172.22.9.219 | Dell            |  
| 98:90:96:E3:3A:DA | 172.22.9.34  | Dell            |  
| B8:CA:3A:B8:8C:6A | 172.22.9.35  | Dell            |  
| B8:CA:3A:BC:DA:AE | 172.22.9.222 | Dell            |  
| C4:64:13:B4:1C:58 | 172.22.9.42  | Cisco Systems   |  
| C8:4C:75:61:10:DD | 172.22.9.4   | Cisco Systems   |  
| D4:BE:D9:8D:6D:28 | 172.22.9.206 | Dell            |  
| D4:BE:D9:8D:77:ED | 172.22.9.1   | Dell            |  
| D4:BE:D9:8D:90:50 | 172.22.9.31  | Dell            |  
| D4:BE:D9:8D:9A:FE | 172.22.9.224 | Dell            |  
+-------------------+--------------+-----------------+  
61 rows in set (0.00 sec)  
  
MariaDB [student]> **select \* from networkdevices where devicetype='Cisco Systems';**  
+-------------------+-------------+---------------+  
| mac               | ip          | devicetype    |  
+-------------------+-------------+---------------+  
| 00:18:B9:37:4F:C7 | 172.22.8.1  | Cisco Systems |  
| C4:64:13:B4:1C:58 | 172.22.9.42 | Cisco Systems |  
| C8:4C:75:61:10:DD | 172.22.9.4  | Cisco Systems |  
+-------------------+-------------+---------------+  
3 rows in set (0.00 sec)  
  
MariaDB [student]> **select \* from networkdevices where devicetype='NEC' or 1=1;**+-------------------+--------------+-----------------+  
| mac               | ip           | devicetype      |  
+-------------------+--------------+-----------------+  
| 00:18:B9:37:4F:C7 | 172.22.8.1   | Cisco Systems   |  
| 00:23:7D:7C:25:59 | 172.22.8.100 | Hewlett Packard |  
| 00:23:7D:7C:E4:EE | 172.22.8.102 | Hewlett Packard |  
| 00:23:AE:9D:9C:BD | 172.22.9.214 | Dell            |  
| 00:25:5C:A2:A2:4C | 172.22.8.61  | NEC             |  
| 00:25:5C:A2:A3:D2 | 172.22.8.62  | NEC             |  
| 00:25:5C:CE:9A:8A | 172.22.8.63  | NEC             |  
| 00:30:13:DF:32:36 | 172.22.8.60  | NEC             |  
| 00:30:13:DF:4F:47 | 172.22.9.10  | NEC             |  
| 00:60:30:80:1A:F6 | 172.22.8.103 | Village Tronic  |  
| 00:60:30:B9:55:43 | 172.22.8.113 | Village Tronic  |  
| 18:03:73:31:DE:EC | 172.22.9.209 | Dell            |  
| 18:03:73:32:54:41 | 172.22.9.21  | Dell            |  
| 34:17:EB:B8:5E:0B | 172.22.9.32  | Dell            |  
| 98:90:96:DD:E3:43 | 172.22.9.17  | Dell            |  
| 98:90:96:DD:E7:C7 | 172.22.9.18  | Dell            |  
| 98:90:96:DD:EB:1D | 172.22.9.3   | Dell            |  
| 98:90:96:DD:EC:74 | 172.22.9.41  | Dell            |  
| 98:90:96:DD:EC:82 | 172.22.9.211 | Dell            |  
| 98:90:96:DE:23:33 | 172.22.9.26  | Dell            |  
| 98:90:96:DE:28:0F | 172.22.9.9   | Dell            |  
| 98:90:96:DE:28:AE | 172.22.9.29  | Dell            |  
| 98:90:96:DE:28:FA | 172.22.9.13  | Dell            |  
| 98:90:96:DE:29:09 | 172.22.9.40  | Dell            |  
| 98:90:96:DE:29:40 | 172.22.9.43  | Dell            |  
| 98:90:96:DE:2A:30 | 172.22.9.22  | Dell            |  
| 98:90:96:DE:2A:F2 | 172.22.9.15  | Dell            |  
| 98:90:96:DE:2B:06 | 172.22.9.24  | Dell            |  
| 98:90:96:DE:2B:2A | 172.22.9.28  | Dell            |  
| 98:90:96:DE:2B:35 | 172.22.9.213 | Dell            |  
| 98:90:96:E0:5C:EB | 172.22.9.8   | Dell            |  
| 98:90:96:E1:06:57 | 172.22.9.45  | Dell            |  
| 98:90:96:E1:0A:4A | 172.22.9.19  | Dell            |  
| 98:90:96:E1:0C:5D | 172.22.9.6   | Dell            |  
| 98:90:96:E1:0D:16 | 172.22.9.14  | Dell            |  
| 98:90:96:E1:0D:7C | 172.22.9.212 | Dell            |  
| 98:90:96:E1:0D:81 | 172.22.9.210 | Dell            |  
| 98:90:96:E1:10:54 | 172.22.9.25  | Dell            |  
| 98:90:96:E1:22:B5 | 172.22.9.37  | Dell            |  
| 98:90:96:E1:23:28 | 172.22.9.20  | Dell            |  
| 98:90:96:E1:23:43 | 172.22.9.7   | Dell            |  
| 98:90:96:E1:23:53 | 172.22.9.39  | Dell            |  
| 98:90:96:E1:27:0C | 172.22.9.5   | Dell            |  
| 98:90:96:E1:27:26 | 172.22.9.11  | Dell            |  
| 98:90:96:E1:28:C4 | 172.22.9.27  | Dell            |  
| 98:90:96:E1:28:DA | 172.22.9.16  | Dell            |  
| 98:90:96:E1:2A:32 | 172.22.9.208 | Dell            |  
| 98:90:96:E1:2A:79 | 172.22.9.36  | Dell            |  
| 98:90:96:E1:2B:98 | 172.22.9.216 | Dell            |  
| 98:90:96:E1:2C:F5 | 172.22.9.23  | Dell            |  
| 98:90:96:E3:35:A0 | 172.22.9.207 | Dell            |  
| 98:90:96:E3:3A:D9 | 172.22.9.219 | Dell            |  
| 98:90:96:E3:3A:DA | 172.22.9.34  | Dell            |  
| B8:CA:3A:B8:8C:6A | 172.22.9.35  | Dell            |  
| B8:CA:3A:BC:DA:AE | 172.22.9.222 | Dell            |  
| C4:64:13:B4:1C:58 | 172.22.9.42  | Cisco Systems   |  
| C8:4C:75:61:10:DD | 172.22.9.4   | Cisco Systems   |  
| D4:BE:D9:8D:6D:28 | 172.22.9.206 | Dell            |  
| D4:BE:D9:8D:77:ED | 172.22.9.1   | Dell            |  
| D4:BE:D9:8D:90:50 | 172.22.9.31  | Dell            |  
| D4:BE:D9:8D:9A:FE | 172.22.9.224 | Dell            |  
+-------------------+--------------+-----------------+  
61 rows in set (0.00 sec)  
  
MariaDB [student]> **select \* from networkdevices where devicetype='NEC' or 1=1;**