

How to Display the Total Size of the Entire MariaDB Database in the CLI?

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I want to know the total size of the entire MariaDB database.

Problem

How to display the total size of the entire MariaDB database in the CLI?

Solution

There are two methods for displaying the total size of the entire MariaDB database in the CLI:

1. Using a query

If you have entered the MariaDB database, you can use the command below to display the total size of a MariaDB database:

```
SELECT table_schema AS "Database",  
ROUND(SUM(data_length + index_length) / 1024 / 1024, 2) AS "Size (MB)"  
FROM information_schema.TABLES  
GROUP BY table_schema;
```

The above query will display the total size of the entire MariaDB database in MegaBytes (MB) as shown in the image below:

```
MariaDB [(none)]> SELECT table_schema AS "Database",
-> ROUND(SUM(data_length + index_length) / 1024 / 1024, 2) AS "Size (MB)"
-> FROM information_schema.TABLES
-> GROUP BY table_schema;
```

Database	Size (MB)
information_schema	0.20
instances	488.72
mysql	3.33
nodes	540.02
performance_schema	0.00
sys	0.03

6 rows in set (0.013 sec)



Display the total size of the databases using the query in Megabytes

If you want to display in Gigabytes (GB), use the command below:

```
SELECT table_schema AS "Database",
ROUND(SUM(data_length + index_length) / 1024 / 1024 / 1024, 2) AS "Size (GB)"
FROM information_schema.TABLES
GROUP BY table_schema;
```

so that it will display as shown in the image below:

```
MariaDB [(none)]> SELECT table_schema AS "Database",
-> ROUND(SUM(data_length + index_length) / 1024 / 1024 / 1024, 2) AS "Size (GB)"
-> FROM information_schema.TABLES
-> GROUP BY table_schema;
```

Database	Size (GB)
information_schema	0.00
instances	0.48
mysql	0.00
nodes	0.53
performance_schema	0.00
sys	0.00

6 rows in set (0.012 sec)



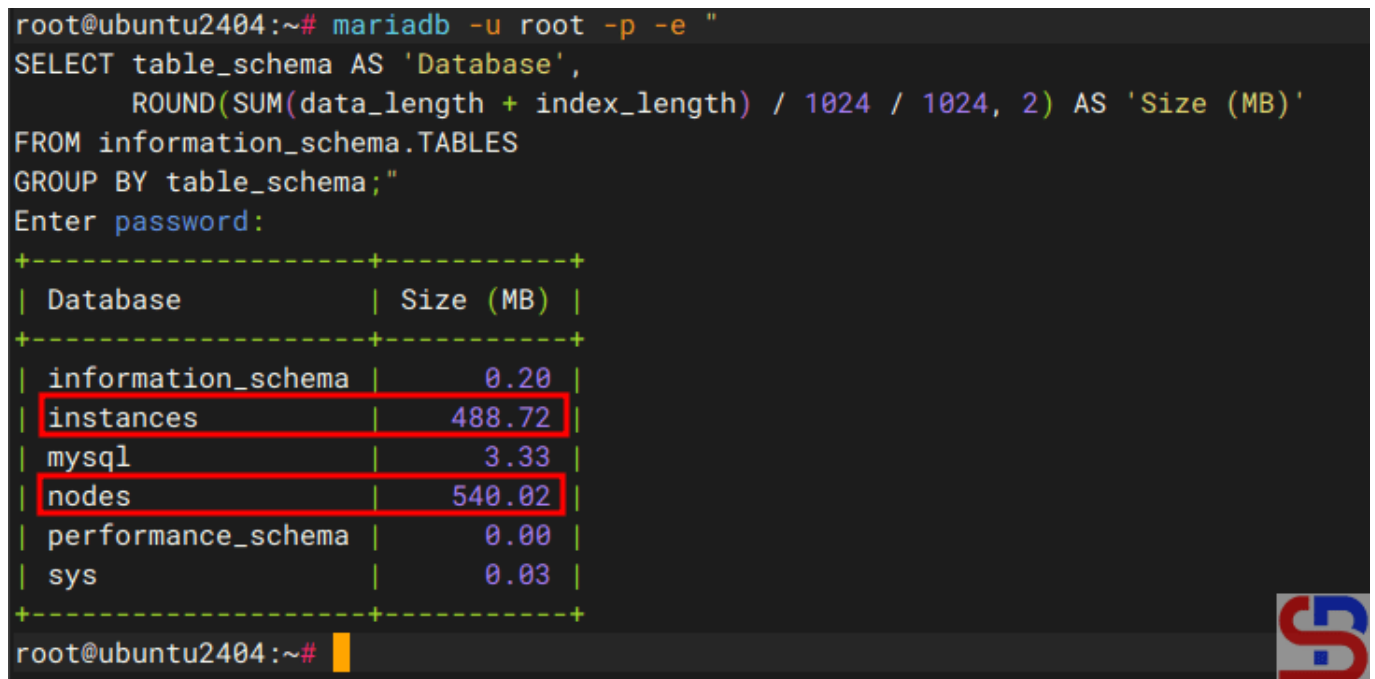
Display the total size of the databases using the query in GigaBytes

2. Using Linux Command

If you want to display the total size of the entire MariaDB database using Linux commands, use the command below:

```
mariadb -u root -p -e "  
SELECT table_schema AS 'Database',  
ROUND(SUM(data_length + index_length) / 1024 / 1024, 2) AS 'Size (MB)'  
FROM information_schema.TABLES  
GROUP BY table_schema;"
```

If you run the above command, it will display like the image below:



```
root@ubuntu2404:~# mariadb -u root -p -e "  
SELECT table_schema AS 'Database',  
ROUND(SUM(data_length + index_length) / 1024 / 1024, 2) AS 'Size (MB)'  
FROM information_schema.TABLES  
GROUP BY table_schema;"  
Enter password:  
+-----+-----+  
| Database          | Size (MB) |  
+-----+-----+  
| information_schema | 0.20      |  
| instances          | 488.72    |  
| mysql              | 3.33      |  
| nodes              | 540.02    |  
| performance_schema | 0.00      |  
| sys                | 0.03      |  
+-----+-----+  
root@ubuntu2404:~#
```

Display the total size of the databases using the Linux command in Megabytes

If you want to display it in GigaBytes, use the command below:

```
mariadb -u root -p -e "  
SELECT table_schema AS 'Database',  
ROUND(SUM(data_length + index_length) / 1024 / 1024 / 1024, 2) AS 'Size (GB)'  
FROM information_schema.TABLES  
GROUP BY table_schema;"
```

and it will display like the image below:

```
root@ubuntu2404:~# mariadb -u root -p -e "
SELECT table_schema AS 'Database',
       ROUND(SUM(data_length + index_length) / 1024 / 1024 / 1024, 2) AS 'Size (GB)'
FROM information_schema.TABLES
GROUP BY table_schema;"
Enter password:
+-----+-----+
| Database          | Size (GB) |
+-----+-----+
| information_schema | 0.00      |
| instances         | 0.48      |
| mysql             | 0.00      |
| nodes             | 0.53      |
| performance_schema | 0.00      |
| sys               | 0.00      |
+-----+-----+
root@ubuntu2404:~#
```



Display the total size of the databases using the Linux command in Gigabytes

Or in a short time, you can use the Linux command below to see the total size of the entire database in MariaDB:

```
cd /var/lib/mysql/
du -sh *
```

```
root@ubuntu2404:~# cd /var/lib/mysql/
root@ubuntu2404:/var/lib/mysql#
root@ubuntu2404:/var/lib/mysql# du -sh *
412K  aria_log.00000001
4.0K  aria_log_control
16K   ddl_recovery.log
0     debian-10.11.flag
4.0K  ib_buffer_pool
76M   ibdata1
96M   ib_logfile0
12M   ibtmp1
543M  instances
0     multi-master.info
3.7M  mysql
4.0K  mysql_upgrade_info
610M  nodes
8.0K  performance_schema
600K  sys
root@ubuntu2404:/var/lib/mysql#
```



Display the total size of the databases using the Linux command

Note

If you want to display the total size of the entire MariaDB database in KiloBytes, then in the **ROUND(SUM(data_length + index_length)** section, simply divide it by 1024 so that it becomes as follows:

```
mariadb -u root -p -e "  
SELECT table_schema AS "Database",  
ROUND(SUM(data_length + index_length) / 1024 , 2) AS "Size (KB)"  
FROM information_schema.TABLES  
GROUP BY table_schema;"
```

And if you want to display in TeraBytes size, then in the **ROUND(SUM(data_length + index_length)** section, divide by 1024 4 times, so that the command is as follows:

```
mariadb -u root -p -e "  
SELECT table_schema AS 'Database',  
ROUND(SUM(data_length + index_length) / 1024 / 1024 / 1024 / 1024 , 2) AS  
'Size (KB)'  
FROM information_schema.TABLES  
GROUP BY table_schema;"
```

References

a2hosting.com
database.guide
tecmint.com