

## Database Size

```
focal@focal:~/My_Programming/HowBigIsBigData$ ./01_RunSQLCommands.sh size
[RunCommands] Sending Cmd: <USE db_test; SELECT table_schema AS "Database", SUM(data_length
+-----+-----+
| Database          | Size (MB) |
+-----+-----+
| db_test           | 0.01562500 |
| information_schema | 0.00000000 |
| mysql             | 2.60937500 |
| performance_schema | 0.00000000 |
| sys               | 0.01562500 |
+-----+-----+
[RunCommands] Connect is Fin!
```

## Table Size

```
focal@focal:~/My_Programming/HowBigIsBigData$ ./01_RunSQLCommands.sh size-tables
[RunCommands] Sending Cmd: <USE db_test; SELECT table_name AS `Table`, round(((data_length +
+-----+-----+
| Table      | Size in MB |
+-----+-----+
| tbl_test   | 0.02 |
+-----+-----+
[RunCommands] Connect is Fin!
focal@focal:~/My_Programming/HowBigIsBigData$
```

## Count

```
focal@focal:~/My_Programming/HowBigIsBigData$ ./01_RunSQLCommands.sh count
[RunCommands] Sending Cmd: <USE db_test; SELECT COUNT(*) FROM tbl_test;>
+-----+
| COUNT(*) |
+-----+
| 1000010 |
+-----+
[RunCommands] Connect is Fin!
```

## Top-Ten

```
focal@focal:~/My_Programming/HowBigIsBigData$ ./01_RunSQLCommands.sh top-ten
[RunCommands] Sending Cmd: <USE db_test; SELECT * FROM tbl_test LIMIT 10;>
+-----+-----+-----+
| id      | value      |
+-----+-----+-----+
```

```

+-----+-----+
| 0x027730116D3AE157451427E0E26B1F9A | 11261447241728.000000 |
| 0x0558DAB76F7A956C092A4F4D26C5999B | 69431074816.000000 |
| 0x0587B833A45753042A9B256128AC096F | 377148604416.000000 |
| 0x05BC459AF08764C8AF06B3C4A8259B2B | -36285706240.000000 |
| 0x0654E62B2C21CAB27678B26EFD4F376E | 4648223637504.000000 |
| 0x07966A22466DEBA6107EEE560EDCF370 | 1447788281856.000000 |
| 0x1000040A1FFCF6C3C50DEB62D55BF2D3 | 664200347648.000000 |
| 0x100009B87D6B82F46998F7B63D0EFDAD | -285973552300032.000000 |
| 0x10000C37F45C0857E245E38494018134 | -1538523791360.000000 |
| 0x100020FF3ED8C7D4BAC1287E94FC3D03 | -4386588983296.000000 |
+-----+-----+
[RunCommands] Connect is Fin!

```

## Direct Table Access - Size

```

root@focal:/var/lib/mysql/db_test# ls -lahtr
total 77M
drwxr-x--- 2 mysql mysql 4.0K Nov  7 02:55 .
drwx----- 7 mysql mysql 4.0K Nov  7 19:15 ..
-rw-r----- 1 mysql mysql 76M Nov  8 01:22 tbl_test.ibd

```

## VIDEO Test

```

focal@focal:~/My_Programming/HowBigIsBigData$ sudo su
root@focal:/home/focal/My_Programming/HowBigIsBigData# ls /var/lib/mysql/db_test/ -alhtr
total 120K
drwx----- 7 mysql mysql 4.0K Nov  7 19:15 ..
drwxr-x--- 2 mysql mysql 4.0K Nov  8 03:04 .
-rw-r----- 1 mysql mysql 112K Nov  8 03:04 tbl_test.ibd

mysql> SELECT COUNT() FROM tbl_test; +-----+ / COUNT() | +-----+
--+ | 1000000 | +-----+ 1 row in set (0.13 sec)

mysql> SELECT * FROM tbl_test LIMIT 15; +-----+
+-----+ | id | value | +-----+
-----+ | 0x027730116D3AE157451427E0E26B1F9A | 11261447241728.000000
| | 0x0558DAB76F7A956C092A4F4D26C5999B | 69431074816.000000 |
| 0x0587B833A45753042A9B256128AC096F | 377148604416.000000 |
0x05BC459AF08764C8AF06B3C4A8259B2B | -36285706240.000000 |
0x0654E62B2C21CAB27678B26EFD4F376E | 4648223637504.000000 |
0x07966A22466DEBA6107EEE560EDCF370 | 1447788281856.000000 |
0x1000040A1FFCF6C3C50DEB62D55BF2D3 | 664200347648.000000 |
0x100009B87D6B82F46998F7B63D0EFDAD | -285973552300032.000000
| | 0x10000C37F45C0857E245E38494018134 | -1538523791360.000000 |

```

```

0x100020FF3ED8C7D4BAC1287E94FC3D03 | -4386588983296.000000 |
| 0x1000228F6B0A3EE962CFBA95A23496A3 | -46123213389824.000000
| | 0x10002B7B23A079F32FF7945B64348AAC | -122009010176.000000
| | 0x10002C8F5D737C072A9A517C32F2A66C | 745080619008.000000 |
| 0x10002F0530FBCBB35BD8E16A6137601F | 281773768704.000000 | |
0x10003C386A34D24742A53242E1953146 | -39988418838528.000000 | +-----
+-----+-----+

```

```

root@focal:/home/focal/My_Programming/HowBigIsBigData# ls /var/lib/mysql/db_test/
-alhtr total 77M drwx----- 7 mysql mysql 4.0K Nov 7 19:15 .. drwxr-x-- 2
mysql mysql 4.0K Nov 8 03:04 . -rw-r----- 1 mysql mysql 76M Nov 8 03:06
tbl_test.ibd

```

(Roughly 146% increase in mysql vs. csv)