[ARCHIWUM] Komendy i procedury diagnostyczne

> **Strona zarchiwizowana.** Treść została rozbudowana i przeniesiona. Aktualna wersja: Rozpoznanie serwera i baz. Ta strona zostaje wyłącznie dla historii.

> Wykonujemy zalogowani do iSQL bez wybranej żadnej bazy

Wylistowanie aktywnych sesji:

```
sp_who
```

```
1> sp_who
2> go
 fid spid status     loginame         origname         hostname           blk_spid dbname          tempdbname cmd              block_xloid threadpool
 --- ---- ---------- ---------------- ---------------- ------------------ -------- --------------- ---------- ---------------- ----------- ---------------
   0    1 sleeping   NULL             NULL             NULL                    0 master          master     MEMORY TUNE               0 syb_default_pool
   0    3 sleeping   NULL             NULL             NULL                    0 master          tempdb     DEADLOCK TUNE             0 syb_default_pool
   0    4 sleeping   NULL             NULL             NULL                    0 master          tempdb     MIRROR HANDLER            0 syb_default_pool
   0    5 sleeping   NULL             NULL             NULL                    0 master          tempdb     SHUTDOWN HANDLER          0 syb_default_pool
   0    6 sleeping   NULL             NULL             NULL                    0 master          tempdb     KPP HANDLER               0 syb_default_pool
   0    7 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER              0 syb_default_pool
   0    8 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER              0 syb_default_pool
   0    9 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER              0 syb_default_pool
   0   10 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER              0 syb_default_pool
   0   11 sleeping   NULL             NULL             NULL                    0 master          tempdb     CHECKPOINT SLEEP          0 syb_default_pool
   0   12 sleeping   NULL             NULL             NULL                    0 master          tempdb     HK WASH                   0 syb_default_pool
   0   13 runnable   NULL             NULL             NULL                    0 master          tempdb     HK GC                     0 syb_default_pool
   0   14 sleeping   NULL             NULL             NULL                    0 master          tempdb     HK CHORES                 0 syb_default_pool
   0   15 sleeping   NULL             NULL             NULL                    0 master          tempdb     PORT MANAGER              0 syb_default_pool
   0   16 sleeping   NULL             NULL             NULL                    0 master          tempdb     NETWORK HANDLER           0 syb_default_pool
   0   19 recv sleep webmegazuser     webmegazuser     EWE012                  0 Megaz           tempdb     AWAITING COMMAND          0 syb_default_pool
   0   20 sleeping   NULL             NULL             NULL                    0 master          tempdb     LICENSE HEARTBEAT         0 syb_default_pool
   0   21 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND          0 syb_default_pool
   0   22 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND          0 syb_default_pool
   0   24 recv sleep sa               sa               ewe015.ewepl.local      0 master          tempdb     AWAITING COMMAND          0 syb_default_pool
   0   27 recv sleep megazuser        megazuser        marzena.pawinska        0 Megaz           tempdb     AWAITING COMMAND          0 syb_default_pool
   0   28 recv sleep webmegazuser     webmegazuser     EWE012                  0 Megaz           tempdb     AWAITING COMMAND          0 syb_default_pool
   0   31 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND          0 syb_default_pool
   0   34 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND          0 syb_default_pool
   0   35 recv sleep megazuser        megazuser        marika.kostrzewa        0 Megaz           tempdb     AWAITING COMMAND          0 syb_default_pool
   0   38 recv sleep megazuser        megazuser        arkadiusz.nowak         0 Megaz           tempdb     AWAITING COMMAND          0 syb_default_pool
   0   41 recv sleep megazuser        megazuser        marcin.bolechowski      0 Megaz           tempdb     AWAITING COMMAND          0 syb_default_pool
```

Wylistowanie locków na bazie

```
sp_locks
```

```
1> sp_who
2> go
 fid spid status     loginame         origname         hostname           blk_spid dbname          tempdbname cmd              block_xloid threadpool
 --- ---- ---------- ---------------- ---------------- ------------------ -------- --------------- ---------- ---------------- ----------- ---------------
   0    1 sleeping   NULL             NULL             NULL                    0 master          master     MEMORY TUNE                0 syb_default_pool
   0    3 sleeping   NULL             NULL             NULL                    0 master          tempdb     DEADLOCK TUNE              0 syb_default_pool
   0    4 sleeping   NULL             NULL             NULL                    0 master          tempdb     MIRROR HANDLER             0 syb_default_pool
   0    5 sleeping   NULL             NULL             NULL                    0 master          tempdb     SHUTDOWN HANDLER           0 syb_default_pool
   0    6 sleeping   NULL             NULL             NULL                    0 master          tempdb     KPP HANDLER                0 syb_default_pool
   0    7 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER               0 syb_default_pool
   0    8 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER               0 syb_default_pool
   0    9 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER               0 syb_default_pool
   0   10 sleeping   NULL             NULL             NULL                    0 master          tempdb     ASTC HANDLER               0 syb_default_pool
   0   11 sleeping   NULL             NULL             NULL                    0 master          tempdb     CHECKPOINT SLEEP           0 syb_default_pool
   0   12 sleeping   NULL             NULL             NULL                    0 master          tempdb     HK WASH                    0 syb_default_pool
   0   13 runnable   NULL             NULL             NULL                    0 master          tempdb     HK GC                      0 syb_default_pool
   0   14 sleeping   NULL             NULL             NULL                    0 master          tempdb     HK CHORES                  0 syb_default_pool
   0   15 sleeping   NULL             NULL             NULL                    0 master          tempdb     PORT MANAGER               0 syb_default_pool
   0   16 sleeping   NULL             NULL             NULL                    0 master          tempdb     NETWORK HANDLER            0 syb_default_pool
   0   19 recv sleep webmegazuser     webmegazuser     EWE012                  0 Megaz           tempdb     AWAITING COMMAND           0 syb_default_pool
   0   20 sleeping   NULL             NULL             NULL                    0 master          tempdb     LICENSE HEARTBEAT          0 syb_default_pool
   0   21 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND           0 syb_default_pool
   0   22 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND           0 syb_default_pool
   0   24 recv sleep sa               sa               ewe015.ewepl.local      0 master          tempdb     AWAITING COMMAND           0 syb_default_pool
   0   27 recv sleep megazuser        megazuser        marzena.pawinska        0 Megaz           tempdb     AWAITING COMMAND           0 syb_default_pool
   0   28 recv sleep webmegazuser     webmegazuser     EWE012                  0 Megaz           tempdb     AWAITING COMMAND           0 syb_default_pool
   0   31 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND           0 syb_default_pool
   0   34 recv sleep webmegazuser     webmegazuser     EWE010                  0 Megaz_test3     tempdb     AWAITING COMMAND           0 syb_default_pool
   0   35 recv sleep megazuser        megazuser        marika.kostrzewa        0 Megaz           tempdb     AWAITING COMMAND           0 syb_default_pool
   0   38 recv sleep megazuser        megazuser        arkadiusz.nowak         0 Megaz           tempdb     AWAITING COMMAND           0 syb_default_pool
   0   41 recv sleep megazuser        megazuser        marcin.bolechowski      0 Megaz           tempdb     AWAITING COMMAND           0 syb_default_pool
```

Inna wersja powyższej komendy wraz z filtrowaniem:

```
SELECT * FROM master..monLocks
WHERE DBName LIKE '%Megaz%'
go
```

Sprawdzenie plików "device"

```
sp_helpdevice
go
```

```
(return status = 1)
Procedure 'sp_device' not found. Specify owner.objectname or use sp_help to check whether the object exists (sp_help may produce lots of output).
1> sp_helpdevice
2> go
 device_name          physical_name                                        description                                                
```

```
1> sp_helpdb
2> go
 name             db_size      owner dbid  created      durability  lobcomplvl inrowlen status
 ---------------- ------------ ----- ----- ------------ ---------- ---------- -------- ----------------------------------------------------------------------------------------------------------------
 dbccdb             10242.0 MB sa    31516 Mar 18, 2021 full               0     NULL select into/bulkcopy/pllsort, trunc log on chkpt
 master                52.0 MB sa        1 Mar 16, 2021 full               0     NULL mixed log and data
 Megaz             560740.0 MB sa        6 Mar 18, 2021 full               0     NULL full logging for all
 Megaz_monitoring    3272.0 MB sa        7 Mar 18, 2021 full               0     NULL trunc log on chkpt
 MeGaz_Test1       500836.0 MB sa        4 Apr 01, 2021 full               0     NULL select into/bulkcopy/pllsort, trunc log on chkpt, full logging for all
 Megaz_test2       501240.0 MB sa        5 Mar 30, 2021 full               0     NULL select into/bulkcopy/pllsort, trunc log on chkpt, full logging for all
 Megaz_test3       504166.0 MB sa        8 Jan 16, 2024 full               0     NULL select into/bulkcopy/pllsort, trunc log on chkpt, full logging for all
 model                12.0 MB sa        3 Mar 16, 2021 full               0     NULL mixed log and data
 sybmgmtdb            76.0 MB sa    31515 Mar 16, 2021 full               0     NULL select into/bulkcopy/pllsort, trunc log on chkpt, mixed log and data
 sybsystemdb          24.0 MB sa    31513 Mar 16, 2021 full               0     NULL trunc log on chkpt, mixed log and data, full logging for all
 sybsystemprocs      196.0 MB sa    31514 Mar 16, 2021 full               0     NULL trunc log on chkpt, mixed log and data, full logging for all
 tempdb           148612.0 MB sa        2 Feb 21, 2025 no_recovery        0     NULL select into/bulkcopy/pllsort, trunc log on chkpt, ddl in tran, mixed log and data, allow wide dol rows

(1 row affected)
 name   attribute_class attribute     int_value char_value   comments
 ------ --------------- ------------- --------- ------------ --------
 tempdb buffer manager  cache binding         1 tempdb_cache NULL
(return status = 0)
```

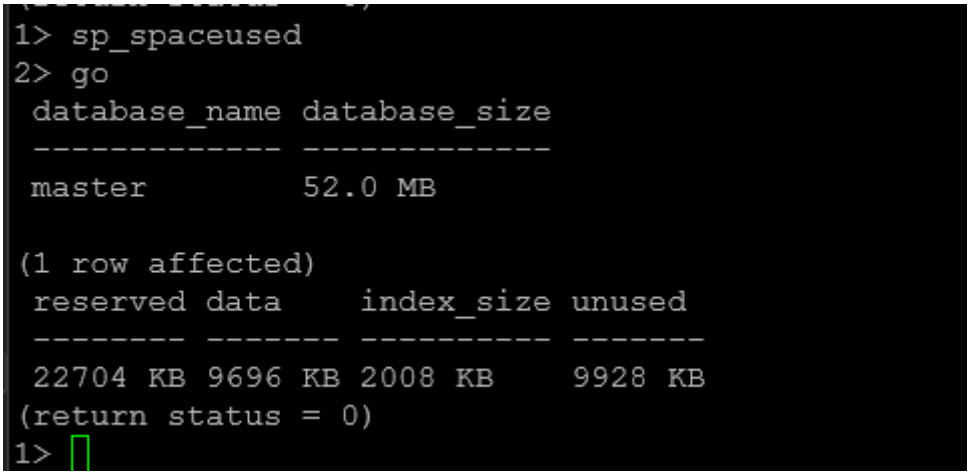
Wyświetlanie zajętości aktualnie używanej bazy danych

Najpierw wybieramy bazę danych:

```
use NazwaBazy
go
```

Później wykonujemy komendę:

```
sp_spaceused
go
```



Weryfikacja aktualnie używanych zasobów:

```
sp_monitor
go
```

```
1> sp_monitor
2> go
 last_run                    current_run                 seconds
 --------------------------- --------------------------- -----------
            Mar 13 2025  4:37PM             Mar 13 2025  4:37PM           1

(1 row affected)
 cpu_busy                    io_busy                     idle
 --------------------------- --------------------------- ---------------------------
 1297865(0)-0%               179286(0)-0%                1324086(0)-0%
 packets_received            packets_sent                packet_errors
 --------------------------- --------------------------- ---------------------------
 145623483(0)                171382452(0)                0(0)
 total_read          total_write         total_errors        connections
 ------------------- ------------------- ------------------- -------------------
 1054312077(0)       77213607(0)         0(0)                4772643(0)
(return status = 0)
1>
```

Weryfikacja wydajności silnika bazy danych przez określony czas:

```
sp_sysmon "00:01:00"
go
```

```
1> sp_sysmon "00:01:00"
2> go
================================================================================
      Sybase Adaptive Server Enterprise System Performance Report
================================================================================

Server Version:        Adaptive Server Enterprise/16.0 SP04 PL06 HF1/EBF 31044
                       SMP/P/x86_64/SLES 12.4/ase160sp04pl06x/3636/64-bit/FBO/T
                       hu Jun 27 20:17:29 2024
Run Date:              Mar 13, 2025
Sampling Started at:   Mar 13, 2025 16:30:45
Sampling Ended at:     Mar 13, 2025 16:31:45
Sample Interval:       00:01:00
Sample Mode:           No Clear
Counters Last Cleared: Feb 21, 2025 18:55:37
Server Name:           EWE015
================================================================================

Kernel Utilization
------------------


  Engine Utilization (Tick %)   User Busy   System Busy    I/O Busy        Idle
  ------------------------  ------------  ------------  ----------  ----------
  ThreadPool : syb_default_pool
   Engine 0                        30.0 %         0.0 %      14.3 %      55.7 %
   Engine 1                        32.3 %         0.0 %      12.3 %      55.4 %
   Engine 2                        24.5 %         0.0 %      14.5 %      61.1 %
   Engine 3                        16.8 %         0.0 %      12.8 %      70.4 %
   Engine 4                        37.1 %         0.0 %      14.8 %      48.1 %
   Engine 5                        36.1 %         0.0 %      14.6 %      49.3 %
  ------------------------  ------------  ------------  ----------  ----------
  Pool Summary        Total      176.7 %         0.0 %      83.4 %     339.9 %
                    Average       29.5 %         0.0 %      13.9 %      56.7 %
```

Sprawdzenie statusu licencji

Po zalogowaniu się do bazy (przy pomocy iSQL) możemy wywołać zapytanie, które zwróci nam informacje o stanie licencji

```
sp_lmconfig
go
```

image.png

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