# Sprawdzenie parametrów bazy danych

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| -- -----------------------------------------------------------------------------------  -- File Name : https://oracle-base.com/dba/monitoring/tuning.sql  -- Author : Tim Hall  -- Description : Displays several performance indicators and comments on the value.  -- Requirements : Access to the V$ views.  -- Call Syntax : @tuning  -- Last Modified: 15/07/2000  -- -----------------------------------------------------------------------------------  SET SERVEROUTPUT ON  SET LINESIZE 1000  SET FEEDBACK OFF  SELECT \*  FROM v$database;  PROMPT  DECLARE  v\_value NUMBER;  FUNCTION Format(p\_value IN NUMBER)  RETURN VARCHAR2 IS  BEGIN  RETURN LPad(To\_Char(Round(p\_value,2),'990.00') || '%',8,' ') || ' ';  END;  BEGIN  -- --------------------------  -- Dictionary Cache Hit Ratio  -- --------------------------  SELECT (1 - (Sum(getmisses)/(Sum(gets) + Sum(getmisses)))) \* 100  INTO v\_value  FROM v$rowcache;  DBMS\_Output.Put('Dictionary Cache Hit Ratio : ' || Format(v\_value));  IF v\_value < 90 THEN  DBMS\_Output.Put\_Line('Increase SHARED\_POOL\_SIZE parameter to bring value above 90%');  ELSE  DBMS\_Output.Put\_Line('Value Acceptable.');  END IF;  -- -----------------------  -- Library Cache Hit Ratio  -- -----------------------  SELECT (1 -(Sum(reloads)/(Sum(pins) + Sum(reloads)))) \* 100  INTO v\_value  FROM v$librarycache;  DBMS\_Output.Put('Library Cache Hit Ratio : ' || Format(v\_value));  IF v\_value < 99 THEN  DBMS\_Output.Put\_Line('Increase SHARED\_POOL\_SIZE parameter to bring value above 99%');  ELSE  DBMS\_Output.Put\_Line('Value Acceptable.');  END IF;  -- -------------------------------  -- DB Block Buffer Cache Hit Ratio  -- -------------------------------  SELECT (1 - (phys.value / (db.value + cons.value))) \* 100  INTO v\_value  FROM v$sysstat phys,  v$sysstat db,  v$sysstat cons  WHERE phys.name = 'physical reads'  AND db.name = 'db block gets'  AND cons.name = 'consistent gets';  DBMS\_Output.Put('DB Block Buffer Cache Hit Ratio : ' || Format(v\_value));  IF v\_value < 89 THEN  DBMS\_Output.Put\_Line('Increase DB\_BLOCK\_BUFFERS parameter to bring value above 89%');  ELSE  DBMS\_Output.Put\_Line('Value Acceptable.');  END IF;    -- ---------------  -- Latch Hit Ratio  -- ---------------  SELECT (1 - (Sum(misses) / Sum(gets))) \* 100  INTO v\_value  FROM v$latch;  DBMS\_Output.Put('Latch Hit Ratio : ' || Format(v\_value));  IF v\_value < 98 THEN  DBMS\_Output.Put\_Line('Increase number of latches to bring the value above 98%');  ELSE  DBMS\_Output.Put\_Line('Value acceptable.');  END IF;  -- -----------------------  -- Disk Sort Ratio  -- -----------------------  SELECT (disk.value/mem.value) \* 100  INTO v\_value  FROM v$sysstat disk,  v$sysstat mem  WHERE disk.name = 'sorts (disk)'  AND mem.name = 'sorts (memory)';  DBMS\_Output.Put('Disk Sort Ratio : ' || Format(v\_value));  IF v\_value > 5 THEN  DBMS\_Output.Put\_Line('Increase SORT\_AREA\_SIZE parameter to bring value below 5%');  ELSE  DBMS\_Output.Put\_Line('Value Acceptable.');  END IF;    -- ----------------------  -- Rollback Segment Waits  -- ----------------------  SELECT (Sum(waits) / Sum(gets)) \* 100  INTO v\_value  FROM v$rollstat;  DBMS\_Output.Put('Rollback Segment Waits : ' || Format(v\_value));  IF v\_value > 5 THEN  DBMS\_Output.Put\_Line('Increase number of Rollback Segments to bring the value below 5%');  ELSE  DBMS\_Output.Put\_Line('Value acceptable.');  END IF;  -- -------------------  -- Dispatcher Workload  -- -------------------  SELECT NVL((Sum(busy) / (Sum(busy) + Sum(idle))) \* 100,0)  INTO v\_value  FROM v$dispatcher;  DBMS\_Output.Put('Dispatcher Workload : ' || Format(v\_value));  IF v\_value > 50 THEN  DBMS\_Output.Put\_Line('Increase MTS\_DISPATCHERS to bring the value below 50%');  ELSE  DBMS\_Output.Put\_Line('Value acceptable.');  END IF;    END;  /  PROMPT  SET FEEDBACK ON |

Źródło: <https://oracle-base.com/dba/script?category=monitoring&file=tuning.sql>

Przykładowy wynik

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| >>Query Run In:Query Result  Dictionary Cache Hit Ratio : 99.76% Value Acceptable.  Library Cache Hit Ratio : 99.17% Value Acceptable.  DB Block Buffer Cache Hit Ratio : 94.85% Value Acceptable.  Latch Hit Ratio : 99.99% Value acceptable.  Disk Sort Ratio : 0.00% Value Acceptable.  Rollback Segment Waits : 0.01% Value acceptable.  Dispatcher Workload : 0.00% Value acceptable. |