Note Language: English Version: 3 Validity: Valid from 24.10.2000

Summary

Symptom

Customer programs and program enhancements ("user exits") have a bad performance. The bad performance can be seen when accessing the following SAP logistic tables:

AFRU, AFKO, AUFK, CAUFV, RESB

Additional key words

Cause and prerequisites

The R/3 System does not contain secondary indexes to the most important PP / PM flow tables.

To access them effectively you need a basic knowledge of the SAP data model. This notes contains information on the most important errors and provides alternatives.

However, note the following WARNINGS:

- Before you use the suggested alternatives check your program for functional correctness.

Pay attention to the following NOTES:

In the following examples, you often find accesses to several e.g.:

SELECT aufnr FROM resb WHERE rsnum = <afko-rsnum>
SELECT FROM afko WHERE aufnr = <resb-aufnr>

To increase the performance you should define a selection view on the corresponding tables (here: resb and afko) to combine the accesses to both table into one.

Solution

- 1. Access to order confirmation (table AFRU)
- Access to PPS orders (tables AFKO, CAUFV, AUFK)
 - a) Find orders for reservation (field AFKO-RSNUM; CAUFV-RSNUM):
 Incorrect:
 SELECT FROM afko WHERE rsnum = ...
 Correct:
 SELECT aufnr FROM resb WHERE rsnum = <afko-rsnum>
 SELECT FROM afko WHERE aufnr = <resb-aufnr>
 Note:

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The same access path applies to CAUFV and AUFK.
        Search for sales orders (tables VBAP-VBELN, VBAP-POSNR; VBFA-VBELN,
        VBFA-POSNN; and so on.)
        Incorrect:
          SELECT FROM AUFK WHERE KDAUF = <VBAP-VBELN>
                             AND KDPOS = <VBAP-POSNR>
        Correct:
           SELECT FROM AFPO WHERE KDAUF = <VBAP-VBELN>
                              AND KDPOS = <VBAP-POSNR>
             SELECT FROM AUFK WHERE AUFNR = AFPO-AUFNR.
        The tables AFKO and CAUFV can be selected analogously to the AUFK
        access using order number AUFNR.
    Access to reservations and dependent requirement (table: RESB, MDRS
3.
    ATP _RESB)
    a) Search for reservation for PPS orders (field RESB-AUFNR):
        Incorrect:
          SELECT FROM resb WHERE AUFNR = ...
        Correct:
          SELECT rsnum FROM afko WHERE aufnr = <resb-aufnr>
            SELECT .... FROM resb WHERE rsnum = <afko-rsnum>
        The same access path applies to MDRS and ATP_RESB.
    b) Search for reservation for Planned orders (field RESB-PLNUM):
        Incorrect:
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Source code corrections

Correct:

Header Data

Release Status: Released for Customer Released on: 23.10.2000 22:00:00

Priority: Recommendations/additional info

SELECT FROM resb WHERE PLNUM = ...

SELECT rsnum FROM plaf WHERE plnum = <resb-plnum> SELECT FROM resb WHERE rsnum = <plaf-rsnum>

The same access path applies to MDRS and ATP_RESB.

Category: Consulting

Main Component SV-BO Backoffice Service Delivery

The note is not release-dependent.

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Related Notes

Number	Short Text
819324	FAQ: MaxDB SQL optimization
766349	FAQ: Oracle SQL optimization
191492	Performance: Customer developments in MM/WM
185530	Performance: Customer developments in SD

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