Improving the performance of a SELECT DISTINCT

The following select was taking over 44k buffer gets and taking 0.61 seconds per execution:

SELECT /\*+ DH3635\_TEST1 \*/ DISTINCT PN.TASK\_ACTIVITY\_CD

FROM PRSNL\_NOTIFY PN

WHERE PN.PERSON\_ID = 1846802 AND PN.TASK\_ACTIVITY\_CD IN (2703,2704,2705)

AND PN.ACTIVE\_IND = 1 AND PN.NOTIFY\_FLAG = 1 AND

PN.BEG\_EFFECTIVE\_DT\_TM <= sysdate AND PN.END\_EFFECTIVE\_DT\_TM >sysdate ;

Modifying the code to be like this:

SELECT /\*+ DH3635\_TEST2 \*/ DISTINCT PN.TASK\_ACTIVITY\_CD

FROM PRSNL\_NOTIFY PN

WHERE PN.PERSON\_ID = 1846802 AND PN.TASK\_ACTIVITY\_CD = 2703

AND PN.ACTIVE\_IND = 1 AND PN.NOTIFY\_FLAG = 1 AND

PN.BEG\_EFFECTIVE\_DT\_TM <= sysdate AND PN.END\_EFFECTIVE\_DT\_TM >sysdate and rownum <2

union

SELECT DISTINCT PN.TASK\_ACTIVITY\_CD

FROM PRSNL\_NOTIFY PN

WHERE PN.PERSON\_ID = 1846802 AND PN.TASK\_ACTIVITY\_CD = 2704

AND PN.ACTIVE\_IND = 1 AND PN.NOTIFY\_FLAG = 1 AND

PN.BEG\_EFFECTIVE\_DT\_TM <= sysdate AND PN.END\_EFFECTIVE\_DT\_TM >sysdate and rownum < 2

union

SELECT DISTINCT PN.TASK\_ACTIVITY\_CD

FROM PRSNL\_NOTIFY PN

WHERE PN.PERSON\_ID = 1846802 AND PN.TASK\_ACTIVITY\_CD = 2705

AND PN.ACTIVE\_IND = 1 AND PN.NOTIFY\_FLAG = 1 AND

PN.BEG\_EFFECTIVE\_DT\_TM <= sysdate AND PN.END\_EFFECTIVE\_DT\_TM >sysdate and rownum < 2

Reduced the buffer gets to 15 and the elapsed time to less than 0.01 seconds.