

트래킹 테이블 인덱스

```
SELECT
  a.index_name
,a.table_name
,a.uniqueness
,b.column_name
,b.column_position
,b.column_length
,b.descend
FROM all_INDEXES a, all_ind_columns b
WHERE a.index_name = b.index_name
AND a.table_name = UPPER('MASTERLOG')
AND a.index_name = 'MSG_DT_IDX';
```

	ABC INDEX_NAME	ABC TABLE_NAME	ABC UNIQUENESS	ABC COLUMN_NAME	123 COLUMN_POSITION	123 COLUMN_LENGTH	ABC DESCEND
1	MSG_DT_IDX	MASTERLOG	NONUNIQUE	MSG_DT	1	11	ASC
2	MSG_DT_IDX	MASTERLOG	NONUNIQUE	MSG_INTF_ID	2	32	ASC

트래킹 테이블 데이터

20181015 00:00 ~ 20181015 23:59

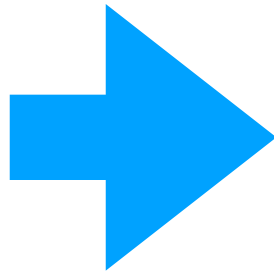
트래킹 테스트 결과

241021 건 검색
 2.8 초 소요
 getTrackingLogListTotalCount --> {executed in 2019 msec}
 getTrackingLogList --> {executed in 759 msec}

SQL 튜닝

* 중첩형식 배제

```
select *
  from (
    select *
      from (
        ....
      )B
    )A
```



중첩형식 사용시 SQL 실행기(디벨로퍼2000 등) 에서 수행시 응답속도는 빠르나 JDBC 를 통한 수행시 느려지는 현상이 발생함.(원인 분석 필요)

* INNER JOIN 을 이용한 주요 필터링 및 DISTINCT 연산 배제

* 코드값 조회용 LEFT OUTER JOIN 제외

```
<select id="getTrackingLogListTotalCount" parameterType="Map" resultType="int">
  SELECT
    COUNT(A.MSG_INTF_ID) AS TOTAL_CNT
  FROM MASTERLOG A
  WHERE MSG_DT BETWEEN to_date("#{startDate},'yyyymmddHH24mi') - 9/24 AND to_date("#{endDate},'yyyymmddHH24mi') - 9/24
  <if test="status != null and status != ''">
    AND MSG_STATUS = #{status}
  </if>
  <choose>
    <when test="unregisteredFlag != null and unregisteredFlag eq 'Y'.toString()">
    </when>
    <otherwise>
      AND EXISTS (
        SELECT
          1
        FROM TAN0201 INTF, TAN0213 B, TIM0101 C, TAN0101 REQ, TIM0301 BIZ
        WHERE INTF.INTERFACE_ID = B.INTERFACE_ID
          <if test="interfaceNm != null and interfaceNm != ''">
            AND INTF.INTERFACE_NM LIKE '%'||#{interfaceNm}||'%'
          </if>
          <if test="integrationId != null and integrationId != ''">
            AND INTF.INTEGRATION_ID = #{integrationId}
          </if>
          <if test="channelId != null and channelId != ''">
            AND INTF.CHANNEL_ID = #{channelId}
          </if>
          <if test="dataPrMethod != null and dataPrMethod != ''">
            AND INTF.DATA_PR_METHOD = #{dataPrMethod}
          </if>
          AND C.SYSTEM_ID = B.SYSTEM_ID
          <if test="systemId != null and systemId != ''">
            AND C.SYSTEM_ID = #{systemId}
          </if>
          <if test="nodeType != null and nodeType != ''">
            AND B.NODE_TYPE = #{nodeType}
          </if>
          AND REQ.INTERFACE_ID = INTF.INTERFACE_ID
          AND BIZ.BUSINESS_ID = REQ.BUSINESS_ID
          <if test="businessId != null and businessId != ''">
            AND BIZ.BUSINESS_ID = #{businessId}
          </if>
          AND INTF.INTEGRATION_ID = A.MSG_INTF_ID
      )
    </otherwise>
  </choose>
</select>
```

```

<select id="getTrackingLogList" parameterType="Map" resultMap="TRLogResult">
    SELECT
        /*+ INDEX_DESC (A MSG_DT_IDX) */
        ROWNUM AS IDX,
        A.MSG_HOST_ID,
        A.MSG_INTF_ID,
        A.MSG_DATETIME, * 리스트의 결과 컬럼 MSG_DATETIME --> MSG_DT 로 변경하여 검색조건과 검색결과 필드 일치 시킴
                        (조회 결과 페이지시 날짜 내림차순 정렬이 근본적으로 잘못 보일 수 있는 점 배제)
        A.MSG_DT,
        A.MSG_STATUS,
        A.MSG_GROUP_ID,
        A.MSG_SEQ_NO
    FROM MASTERLOG A
    WHERE 1 = 1
    -----
    -- 트래킹 테이블 필터조건
    -----
    AND MSG_DT BETWEEN to_date("#{startDate},'yyyymmddHH24mi') - 9/24 AND to_date("#{endDate},'yyyymmddHH24mi') - 9/24
    <if test="status != null and status != ''">
    AND MSG_STATUS = #{status}
    </if>

<choose>
    <when test="unregisteredFlag != null and unregisteredFlag eq 'Y'.toString()">
    </when>
    <otherwise>
    AND EXISTS (
        SELECT
            1
        FROM TAN0201 INTF, TAN0213 B, TIM0101 C, TAN0101 REQ, TIM0301 BIZ
        WHERE INTF.INTERFACE_ID = B.INTERFACE_ID
            <if test="interfaceNm != null and interfaceNm != ''">
            AND INTF.INTERFACE_NM LIKE '%'||#{interfaceNm}||'%'
            </if>
            <if test="integrationId != null and integrationId != ''">
            AND INTF.INTEGRATION_ID = #{integrationId}
            </if>
            <if test="channelId != null and channelId != ''">
            AND INTF.CHANNEL_ID = #{channelId}
            </if>
            <if test="dataPrMethod != null and dataPrMethod != ''">
            ...
            ...
    )
    )

```

) TMP