# 优化SQL

一个简单的procedure，内包含了很多复杂的SQL语句，主要优化这些SQL。

```
CREATE OR REPLACE PROCEDURE REGBUF_V20.sp_data_porter IS
BEGIN
  EXECUTE IMMEDIATE 'truncate table regbuf_v20.tb_yl_mz_medical_record';

  INSERT /*+ append nologging */
  INTO regbuf_v20.tb_yl_mz_medical_record
    SELECT /*+ parallel(a,8) */
      a.yljgdm,
      a.jzlsh,
      a.cisid,
      a.kh,
      a.klx,
      substr(a.hzxm, 1, 1) || '**',
      a.jzlx,
      a.bxlx,
      '***',
      '***',
      a.jzksmc,
      a.jzksrq,
      '***',
      '***',
      a.jzzdbm,
      a.bmlx,
      a.jzzdsm,
      a.zs,
      a.zzms,
      a.xgbz,
      a.mj,
      b.region_code,
      NULL,
      SYSDATE
    FROM    cen_core_v20.tb_yl_mz_medical_record a
    JOIN    (SELECT DISTINCT klx, kh, region_code
              FROM    regbuf_v20.tb_person_region_declare
              WHERE   init_date >= to_char(SYSDATE - 1, 'yyyymmdd')) b
    ON      (a.klx = b.klx AND a.kh = b.kh AND
            jzksrq >= to_date('20150101', 'yyyymmdd'));
  COMMIT;
```

执行计划如下：

```
  MERGE INTO regbuf_v20.tb_yl_mz_medical_record a
  USING (SELECT /*+ parallel(a,8) */
          a.yljgdm,
          a.jzlsh,
          a.cisid,
          a.kh,
          a.klx,
          substr(a.hzxm, 1, 1) || '**' hzxm,
          a.jzlx,
          a.bxlx,
          '***' ybzhbz,
          '***' jzksbm,
          a.jzksmc,
```

```
            a.jzksrq,
            '***' zzysgh,
            '***' zzysxm,
            a.jzzdbm,
            a.bmlx,
            a.jzzdsm,
            a.zs,
            a.zzms,
            a.xgbz,
            a.mj,
            b.region_code,
            NULL dah,
            SYSDATE operate_date
        FROM    cen_etl_v20.tb_yl_mz_medical_record a,
                regbuf_v20.tb_person_region_declare b
        WHERE   a.klx = b.klx
        AND     a.kh = b.kh
        AND     jzksrq >= to_date('20150101', 'yyyymmdd')) b
ON (a.yljgdm = b.yljgdm AND a.jzlsh = b.jzlsh AND a.region_code = b.region_code)
WHEN MATCHED THEN
  UPDATE
  SET     a.cisid       = b.cisid,
          a.kh          = b.kh,
          a.klx         = b.klx,
          a.hzxm        = b.hzxm,
          a.jzlx        = b.jzlx,
          a.bxlx        = b.bxlx,
          a.ybzhbz      = b.ybzhbz,
          a.jzksbm      = b.jzksbm,
          a.jzksmc      = b.jzksmc,
          a.jzksrq      = b.jzksrq,
          a.zzysgh      = b.zzysgh,
          a.zzysxm      = b.zzysxm,
          a.jzzdbm      = b.jzzdbm,
          a.bmlx        = b.bmlx,
          a.jzzdsm      = b.jzzdsm,
          a.zs          = b.zs,
          a.zzms        = b.zzms,
          a.xgbz        = b.xgbz,
          a.mj          = b.mj,
          a.dah         = b.dah,
          a.operate_date = b.operate_date
WHEN NOT MATCHED THEN
  INSERT
  VALUES
      (b.yljgdm,
      b.jzlsh,
      b.cisid,
      b.kh,
      b.klx,
      b.hzxm,
      b.jzlx,
      b.bxlx,
      b.ybzhbz,
      b.jzksbm,
      b.jzksmc,
      b.jzksrq,
      b.zzysgh,
```

```
            b.zzysxm,
            b.jzzdbm,
            b.bmlx,
            b.jzzdsm,
            b.zs,
            b.zzms,
            b.xgbz,
            b.mj,
            b.region_code,
            b.dah,
            b.operate_date);
    COMMIT;
```
执行计划如下：

```
    INSERT /*+ append nologging */
    INTO regbuf_v20_bak.tb_yl_mz_medical_record
        (yljgdm,
        jzlsh,
        cisid,
        kh,
        klx,
        hzxm,
        jzlx,
        bxlx,
        ybzhbz,
        jzksbm,
        jzksmc,
        jzksrq,
        zzysgh,
        zzysxm,
        jzzdbm,
        bmlx,
        jzzdsm,
        zs,
        zzms,
        xgbz,
        mj,
        region_code,
        dah,
        operate_date)
    SELECT yljgdm,
            jzlsh,
            cisid,
            kh,
            klx,
            hzxm,
            jzlx,
            bxlx,
            ybzhbz,
            jzksbm,
            jzksmc,
            jzksrq,
            zzysgh,
            zzysxm,
            jzzdbm,
            bmlx,
```

```
            jzzdsm,
            zs,
            zzms,
            xgbz,
            mj,
            region_code,
            dah,
            operate_date
    FROM    regbuf_v20.tb_yl_mz_medical_record;
  COMMIT;


  INSERT INTO regbuf_v20.tb_data_statistics
    (inspector_date, institution_code, table_name, total_number)
    SELECT to_char(operate_date, 'yyyymmdd'),
           region_code,
           'tb_yl_mz_medical_record',
           COUNT(1)
    FROM    regbuf_v20.tb_yl_mz_medical_record
    GROUP  BY region_code, to_char(operate_date, 'yyyymmdd');
  COMMIT;



  EXECUTE IMMEDIATE 'truncate table regbuf_v20.tb_cis_prescription_detail';

  INSERT /*+ append nologging */
  INTO regbuf_v20.tb_cis_prescription_detail
    SELECT /*+ parallel(a,8) */
      a.cyh,
      a.cfmxh,
      a.yljgdm,
      a.jzlsh,
      a.cxbz,
      a.kh,
      a.klx,
      '***',
      '***',
      '***',
      a.kfrq,
      a.xmbm,
      a.xmbmyb,
      a.scph,
      a.yxqz,
      a.xmmc,
      a.cflx,
      a.jxdm,
      a.ypgg,
      a.ypyf,
      a.ypsl,
      a.ypdw,
      a.cfts,
      a.yzzh,
      a.sypcdm,
      a.sypc,
      a.jl,
      a.dw,
      a.mcsl,
```

```sql
          a.mcdw,
          a.yf,
          a.yyts,
          a.jydm,
          a.sfps,
          a.jcbw,
          a.bz,
          a.mj,
          b.region_code,
          NULL,
          SYSDATE
   FROM    cen_core_v20.tb_cis_prescription_detail a
   JOIN    (SELECT DISTINCT klx, kh, region_code
            FROM    regbuf_v20.tb_person_region_declare
            WHERE   init_date >= to_char(SYSDATE - 1, 'yyyymmdd')) b
   ON      (a.klx = b.klx AND a.kh = b.kh AND
            kfrq >= to_date('20150101', 'yyyymmdd'));
COMMIT;




MERGE INTO regbuf_v20.tb_cis_prescription_detail a
USING (SELECT /*+ parallel(a,8) */
          a.cyh,
          a.cfmxh,
          a.yljgdm,
          a.jzlsh,
          a.cxbz,
          a.kh,
          a.klx,
          '***' jzksdm,
          '***' kfys,
          '***' kfysxm,
          a.kfrq,
          a.xmbm,
          a.xmbmyb,
          a.scph,
          a.yxqz,
          a.xmmc,
          a.cflx,
          a.jxdm,
          a.ypgg,
          a.ypyf,
          a.ypsl,
          a.ypdw,
          a.cfts,
          a.yzzh,
          a.sypcdm,
          a.sypc,
          a.jl,
          a.dw,
          a.mcsl,
          a.mcdw,
          a.yf,
          a.yyts,
          a.jydm,
          a.sfps,
          a.jcbw,
```

```
              a.bz,
              a.mj,
              b.region_code,
              NULL dah,
              SYSDATE operate_date
       FROM   cen_etl_v20.tb_cis_prescription_detail a,
              regbuf_v20.tb_person_region_declare    b
       WHERE  a.klx = b.klx
       AND    a.kh = b.kh
       AND    kfrq >= to_date('20150101', 'yyyymmdd')) b
ON (a.cyh = b.cyh AND a.cfmxh = b.cfmxh AND a.yljgdm = b.yljgdm AND a.region_code = b.region_code)
WHEN MATCHED THEN
   UPDATE
   SET    a.jzlsh       = b.jzlsh,
          a.cxbz        = b.cxbz,
          a.kh          = b.kh,
          a.klx         = b.klx,
          a.jzksdm      = b.jzksdm,
          a.kfys        = b.kfys,
          a.kfysxm      = b.kfysxm,
          a.kfrq        = b.kfrq,
          a.xmbm        = b.xmbm,
          a.xmbmyb      = b.xmbmyb,
          a.scph        = b.scph,
          a.yxqz        = b.yxqz,
          a.xmmc        = b.xmmc,
          a.cflx        = b.cflx,
          a.jxdm        = b.jxdm,
          a.ypgg        = b.ypgg,
          a.ypyf        = b.ypyf,
          a.ypsl        = b.ypsl,
          a.ypdw        = b.ypdw,
          a.cfts        = b.cfts,
          a.yzzh        = b.yzzh,
          a.sypcdm      = b.sypcdm,
          a.sypc        = b.sypc,
          a.jl          = b.jl,
          a.dw          = b.dw,
          a.mcsl        = b.mcsl,
          a.mcdw        = b.mcdw,
          a.yf          = b.yf,
          a.yyts        = b.yyts,
          a.jydm        = b.jydm,
          a.sfps        = b.sfps,
          a.jcbw        = b.jcbw,
          a.bz          = b.bz,
          a.mj          = b.mj,
          a.dah         = b.dah,
          a.operate_date = b.operate_date
WHEN NOT MATCHED THEN
   INSERT
   VALUES
     (b.cyh,
      b.cfmxh,
      b.yljgdm,
      b.jzlsh,
      b.cxbz,
      b.kh,
```

```
            b.klx,
            b.jzksdm,
            b.kfys,
            b.kfysxm,
            b.kfrq,
            b.xmbm,
            b.xmbmyb,
            b.scph,
            b.yxqz,
            b.xmmc,
            b.cflx,
            b.jxdm,
            b.ypgg,
            b.ypyf,
            b.ypsl,
            b.ypdw,
            b.cfts,
            b.yzzh,
            b.sypcdm,
            b.sypc,
            b.jl,
            b.dw,
            b.mcsl,
            b.mcdw,
            b.yf,
            b.yyts,
            b.jydm,
            b.sfps,
            b.jcbw,
            b.bz,
            b.mj,
            b.region_code,
            b.dah,
            b.operate_date);
    COMMIT;


UPDATE regbuf_v20.tb_cis_prescription_detail a
SET     xmbmyb =
            (SELECT MAX(TRIM(bzxmbm))
             FROM    cencore.tb_dic_detail_comparison b
             WHERE   a.yljgdm = b.yljgdm
             AND     a.xmbm = b.ynxmbm
             AND     bzxmbm IN
                         (SELECT x.ybbm
                            FROM    cendic.tmp_dic_materials x
                            UNION ALL
                            SELECT y.ypbm
                            FROM    cendic.tmp_dic_medicines y
                            UNION ALL
                            SELECT z.yybm FROM cendoc.t_sqzg_dic_ypml z))
WHERE   (yljgdm, xmbm) IN
            (SELECT DISTINCT yljgdm, ynxmbm
             FROM    cencore.tb_dic_detail_comparison b
             WHERE   bzxmbm IN
```

```sql
                    (SELECT x.ybbm
                     FROM   cendic.tmp_dic_materials x
                     UNION ALL
                     SELECT y.ypbm
                     FROM   cendic.tmp_dic_medicines y
                     UNION ALL
                     SELECT z.yybm FROM cendoc.t_sqzg_dic_ypml z))
AND     (xmbmyb = 'ZZZZZZZZZZZZZZ' OR xmbmyb = '-' OR xmbmyb IS NULL);
COMMIT;


UPDATE regbuf_v20.tb_cis_prescription_detail a
SET     xmbmyb = xmbm
WHERE   xmbm IN (SELECT x.ybbm
                     FROM   cendic.tmp_dic_materials x
                     UNION ALL
                     SELECT y.ypbm
                     FROM   cendic.tmp_dic_medicines y
                     UNION ALL
                     SELECT z.yybm FROM cendoc.t_sqzg_dic_ypml z)
AND     (xmbmyb = 'ZZZZZZZZZZZZZZ' OR xmbmyb = '-' OR xmbmyb IS NULL);
COMMIT;


INSERT /*+ append nologging */
INTO regbuf_v20_bak.tb_cis_prescription_detail
  (cyh,
   cfmxh,
   yljgdm,
   jzlsh,
   cxbz,
   kh,
   klx,
   jzksdm,
   kfys,
   kfysxm,
   kfrq,
   xmbm,
   xmbmyb,
   scph,
   yxqz,
   xmmc,
   cflx,
   jxdm,
   ypgg,
   ypyf,
   ypsl,
   ypdw,
   cfts,
   yzzh,
   sypcdm,
   sypc,
   jl,
```

```
            dw,
            mcsl,
            mcdw,
            yf,
            yyts,
            jydm,
            sfps,
            jcbw,
            bz,
            mj,
            region_code,
            dah,
            operate_date)
        SELECT cyh,
                cfmxh,
                yljgdm,
                jzlsh,
                cxbz,
                kh,
                klx,
                jzksdm,
                kfys,
                kfysxm,
                kfrq,
                xmbm,
                xmbmyb,
                scph,
                yxqz,
                xmmc,
                cflx,
                jxdm,
                ypgg,
                ypyf,
                ypsl,
                ypdw,
                cfts,
                yzzh,
                sypcdm,
                sypc,
                jl,
                dw,
                mcsl,
                mcdw,
                yf,
                yyts,
                jydm,
                sfps,
                jcbw,
                bz,
                mj,
                region_code,
                dah,
                operate_date
        FROM    regbuf_v20.tb_cis_prescription_detail;
COMMIT;
```

```
INSERT INTO regbuf_v20.tb_data_statistics
   (inspector_date, institution_code, table_name, total_number)
   SELECT to_char(operate_date, 'yyyymmdd'),
          region_code,
          'tb_cis_prescription_detail',
          COUNT(1)
   FROM   regbuf_v20.tb_cis_prescription_detail
   GROUP  BY region_code, to_char(operate_date, 'yyyymmdd');
COMMIT;



EXECUTE IMMEDIATE 'truncate table regbuf_v20.tb_lis_report';

INSERT /*+ append nologging */
INTO regbuf_v20.tb_lis_report
   (yljgdm,
    bgdh,
    bgrq,
    jzlsh,
    mzzybz,
    kh,
    klx,
    brxm,
    brxb,
    brnl,
    sqrgh,
    sqrxm,
    bgrgh,
    bgrxm,
    shrgh,
    shrxm,
    sqks,
    bq,
    ch,
    dyrq,
    sqrq,
    cjrq,
    jyrq,
    bgbz,
    bbdm,
    bbmc,
    bgdlbbm,
    bgdlb,
    mj,
    wjlj,
    xgbz,
    region_code,
    operate_date)
   SELECT /*+ parallel(a,8) */
    yljgdm,
    bgdh,
    bgrq,
    jzlsh,
    mzzybz,
    a.kh,
```

```
          a.klx,
          substr(a.brxm, 1, 1) || '**',
          brxb,
          brnl,
          '***',
          '***',
          '***',
          '***',
          '***',
          '***',
          sqks,
          bq,
          ch,
          dyrq,
          sqrq,
          cjrq,
          jyrq,
          bgbz,
          bbdm,
          bbmc,
          bgdlbbm,
          bgdlb,
          mj,
          wjlj,
          a.xgbz,
          b.region_code,
          SYSDATE
   FROM    cen_core_v20.tb_lis_report a
   JOIN    (SELECT DISTINCT klx, kh, region_code
             FROM    regbuf_v20.tb_person_region_declare t,
                     regbuf_v20.tb_sys_qxpz               tt
             WHERE   init_date >= to_char(SYSDATE - 1, 'yyyymmdd')
             AND     t.region_code = tt.qxdm
             AND     tt.lis_flag = '1') b
   ON      (a.kh = b.kh AND a.klx = b.klx AND bgrq >= '20150101');
COMMIT;
   □




MERGE INTO regbuf_v20.tb_lis_report a
USING (SELECT /*+ parallel(a,8) */
          yljgdm,
          bgdh,
          bgrq,
          jzlsh,
          mzzybz,
          a.kh,
          a.klx,
          substr(a.brxm, 1, 1) || '**' brxm,
          brxb,
          brnl,
          '***' sqrgh,
          '***' sqrxm,
          '***' bgrgh,
          '***' bgrxm,
```

```
                  '***'  shrgh,
                  '***'  shrxm,
                  sqks,
                  bq,
                  ch,
                  dyrq,
                  sqrq,
                  cjrq,
                  jyrq,
                  bgbz,
                  bbdm,
                  bbmc,
                  bgdlbbm,
                  bgdlb,
                  mj,
                  wjlj,
                  a.xgbz,
                  b.region_code,
                  SYSDATE operate_date
          FROM    cen_etl_v20.tb_lis_report            a,
                  regbuf_v20.tb_person_region_declare b,
                  regbuf_v20.tb_sys_qxpz               c
          WHERE   b.region_code = c.qxdm
          AND     c.lis_flag = '1'
          AND     a.kh = b.kh
          AND     a.klx = b.klx
          AND     bgrq >= '20150101') b
ON  (a.yljgdm = b.yljgdm AND a.bgdh = b.bgdh AND a.bgrq = b.bgrq AND a.region_code = b.region_code)
WHEN MATCHED THEN
    UPDATE
    SET     a.jzlsh         = b.jzlsh,
            a.mzzybz        = b.mzzybz,
            a.kh            = b.kh,
            a.klx           = b.klx,
            a.brxm          = b.brxm,
            a.brxb          = b.brxb,
            a.brnl          = b.brnl,
            a.sqrgh         = b.sqrgh,
            a.sqrxm         = b.sqrxm,
            a.bgrgh         = b.bgrgh,
            a.bgrxm         = b.bgrxm,
            a.shrgh         = b.shrgh,
            a.shrxm         = b.shrxm,
            a.sqks          = b.sqks,
            a.bq            = b.bq,
            a.ch            = b.ch,
            a.dyrq          = b.dyrq,
            a.sqrq          = b.sqrq,
            a.cjrq          = b.cjrq,
            a.jyrq          = b.jyrq,
            a.bgbz          = b.bgbz,
            a.bbdm          = b.bbdm,
            a.bbmc          = b.bbmc,
            a.bgdlbbm       = b.bgdlbbm,
            a.bgdlb         = b.bgdlb,
            a.mj            = b.mj,
            a.wjlj          = b.wjlj,
            a.xgbz          = b.xgbz,
```

```
                a.operate_date = b.operate_date
WHEN NOT MATCHED THEN
    INSERT
    VALUES
        (b.yljgdm,
        b.bgdh,
        b.bgrq,
        b.jzlsh,
        b.mzzybz,
        b.kh,
        b.klx,
        b.brxm,
        b.brxb,
        b.brnl,
        b.sqrgh,
        b.sqrxm,
        b.bgrgh,
        b.bgrxm,
        b.shrgh,
        b.shrxm,
        b.sqks,
        b.bq,
        b.ch,
        b.dyrq,
        b.sqrq,
        b.cjrq,
        b.jyrq,
        b.bgbz,
        b.bbdm,
        b.bbmc,
        b.bgdlbbm,
        b.bgdlb,
        b.mj,
        b.wjlj,
        b.xgbz,
        b.region_code,
        NULL,
        b.operate_date);
COMMIT;



INSERT INTO regbuf_v20_bak.tb_lis_report
    (yljgdm,
    bgdh,
    bgrq,
    jzlsh,
    mzzybz,
    kh,
    klx,
    brxm,
    brxb,
    brnl,
    sqrgh,
    sqrxm,
    bgrgh,
    bgrxm,
    shrgh,
    shrxm,
```

```
        sqks,
        bq,
        ch,
        dyrq,
        sqrq,
        cjrq,
        jyrq,
        bgbz,
        bbdm,
        bbmc,
        bgdlbbm,
        bgdlb,
        mj,
        wjlj,
        xgbz,
        region_code,
        dah,
        operate_date)
    SELECT yljgdm,
           bgdh,
           bgrq,
           jzlsh,
           mzzybz,
           kh,
           klx,
           brxm,
           brxb,
           brnl,
           sqrgh,
           sqrxm,
           bgrgh,
           bgrxm,
           shrgh,
           shrxm,
           sqks,
           bq,
           ch,
           dyrq,
           sqrq,
           cjrq,
           jyrq,
           bgbz,
           bbdm,
           bbmc,
           bgdlbbm,
           bgdlb,
           mj,
           wjlj,
           xgbz,
           region_code,
           dah,
           operate_date
    FROM   regbuf_v20.tb_lis_report;
COMMIT;
```

```sql
INSERT INTO regbuf_v20.tb_data_statistics
   (inspector_date, institution_code, table_name, total_number)
   SELECT to_char(operate_date, 'yyyymmdd'),
          region_code,
          'tb_lis_report',
          COUNT(1)
   FROM   regbuf_v20.tb_lis_report
   GROUP  BY region_code, to_char(operate_date, 'yyyymmdd');
COMMIT;




EXECUTE IMMEDIATE 'truncate table regbuf_v20.tb_tmp_lis_report';

INSERT INTO regbuf_v20.tb_tmp_lis_report
   (yljgdm, bgdh, bgrq, region_code)
   SELECT /*+ parallel(a,8) */
    yljgdm, bgdh, bgrq, b.region_code
   FROM   cen_core_v20.tb_lis_report a
   JOIN   (SELECT DISTINCT klx, kh, region_code
           FROM    regbuf_v20.tb_person_region_declare t,
                   regbuf_v20.tb_sys_qxpz              tt
           WHERE   init_date >= to_char(SYSDATE - 1, 'yyyymmdd')
           AND     t.region_code = tt.qxdm
           AND     tt.lis_flag = '1') b
   ON     (a.kh = b.kh AND a.klx = b.klx AND bgrq >= '20150101');
COMMIT;




MERGE INTO regbuf_v20.tb_tmp_lis_report a
USING (SELECT /*+ parallel(a,8) */
          yljgdm, bgdh, bgrq, b.region_code
       FROM   cen_etl_v20.tb_lis_report a
       JOIN   (SELECT DISTINCT klx, kh, region_code
               FROM    regbuf_v20.tb_person_region_declare t,
                       regbuf_v20.tb_sys_qxpz              tt
               WHERE   init_date >= to_char(SYSDATE - 1, 'yyyymmdd')
               AND     t.region_code = tt.qxdm
               AND     tt.lis_flag = '1') b
       ON     (a.kh = b.kh AND a.klx = b.klx AND bgrq >= '20150101')) b
ON (a.yljgdm = b.yljgdm AND a.bgdh = b.bgdh AND a.bgrq = b.bgrq AND a.region_code = b.region_code)
WHEN NOT MATCHED THEN
   INSERT VALUES (b.yljgdm, b.bgdh, b.bgrq, b.region_code);
COMMIT;
```

```
EXECUTE IMMEDIATE 'truncate table regbuf_v20.tb_lis_indicators';

INSERT INTO regbuf_v20.tb_lis_indicators
  (jyzblsh,
   yljgdm,
   bgdh,
   bgrq,
   jcrgh,
   jcrxm,
   shrgh,
   shrxm,
   ybsfdm,
   ybsfdmyb,
   jczbdm,
   jcff,
   jczbmc,
   jczbjg,
   loinc,
   sbbm,
   yqbh,
   yqmc,
   ckz,
   jldw,
   ycts,
   yzid,
   dyxh,
   xgbz,
   region_code,
   operate_date)
  SELECT /*+ parallel(a,8) */
   jyzblsh,
   a.yljgdm,
   a.bgdh,
   a.bgrq,
   '***',
   '***',
   '***',
   '***',
   ybsfdm,
   ybsfdmyb,
   jczbdm,
   jcff,
   jczbmc,
   jczbjg,
   loinc,
   sbbm,
   yqbh,
   yqmc,
   ckz,
   jldw,
   ycts,
   yzid,
   dyxh,
   a.xgbz,
```

```sql
       b.region_code,
       SYSDATE
   FROM    cen_core_v20.tb_lis_indicators a, regbuf_v20.tb_tmp_lis_report b
   WHERE   a.yljgdm = b.yljgdm
   AND     a.bgdh = b.bgdh
   AND     a.bgrq = b.bgrq;
COMMIT;


EXECUTE IMMEDIATE 'truncate table regbuf_v20.tb_tmp_lis_report';

INSERT INTO regbuf_v20.tb_tmp_lis_report
   (yljgdm, bgdh, bgrq, region_code)
   SELECT /*+ parallel(a,8) */
    yljgdm, bgdh, bgrq, b.region_code
   FROM    cen_core_v20.tb_lis_report          a,
           regbuf_v20.tb_person_region_declare b,
           regbuf_v20.tb_sys_qxpz              c
   WHERE   b.region_code = c.qxdm
   AND     c.lis_flag = '1'
   AND     a.kh = b.kh
   AND     a.klx = b.klx
   AND     bgrq >= '20150101';
COMMIT;


MERGE INTO regbuf_v20.tb_tmp_lis_report a
USING (SELECT /*+ parallel(a,8) */
          yljgdm, bgdh, bgrq, b.region_code
       FROM    cen_etl_v20.tb_lis_report           a,
               regbuf_v20.tb_person_region_declare b,
               regbuf_v20.tb_sys_qxpz              c
       WHERE   b.region_code = c.qxdm
       AND     c.lis_flag = '1'
       AND     a.kh = b.kh
       AND     a.klx = b.klx
       AND     bgrq >= '20150101') b
```

```sql
ON  (a.yljgdm = b.yljgdm AND a.bgdh = b.bgdh AND a.bgrq = b.bgrq AND a.region_code = b.region_code)
WHEN NOT MATCHED THEN
   INSERT VALUES (b.yljgdm, b.bgdh, b.bgrq, b.region_code);
COMMIT;



MERGE INTO regbuf_v20.tb_lis_indicators a
USING (SELECT /*+ parallel(a,8) */
           jyzblsh,
           a.yljgdm,
           a.bgdh,
           a.bgrq,
           '***' jcrgh,
           '***' jcrxm,
           '***' shrgh,
           '***' shrxm,
           ybsfdm,
           ybsfdmyb,
           jczbdm,
           jcff,
           jczbmc,
           jczbjg,
           loinc,
           sbbm,
           yqbh,
           yqmc,
           ckz,
           jldw,
           ycts,
           yzid,
           dyxh,
           a.xgbz,
           b.region_code,
           SYSDATE operate_date
       FROM   cen_etl_v20.tb_lis_indicators a,
              regbuf_v20.tb_tmp_lis_report  b
       WHERE  a.yljgdm = b.yljgdm
       AND    a.bgdh = b.bgdh
       AND    a.bgrq = b.bgrq) b
ON  (a.yljgdm = b.yljgdm AND a.jyzblsh = b.jyzblsh AND a.region_code = b.region_code)
WHEN MATCHED THEN
   UPDATE
   SET    a.bgdh        = b.bgdh,
          a.bgrq        = b.bgrq,
          a.jcrgh       = b.jcrgh,
          a.jcrxm       = b.jcrxm,
          a.shrgh       = b.shrgh,
          a.shrxm       = b.shrxm,
          a.ybsfdm      = b.ybsfdm,
          a.ybsfdmyb    = b.ybsfdmyb,
```

```
           a.jczbdm      = b.jczbdm,
           a.jcff        = b.jcff,
           a.jczbmc      = b.jczbmc,
           a.jczbjg      = b.jczbjg,
           a.loinc       = b.loinc,
           a.sbbm        = b.sbbm,
           a.yqbh        = b.yqbh,
           a.yqmc        = b.yqmc,
           a.ckz         = b.ckz,
           a.jldw        = b.jldw,
           a.ycts        = b.ycts,
           a.yzid        = b.yzid,
           a.dyxh        = b.dyxh,
           a.xgbz        = b.xgbz,
           a.operate_date = b.operate_date
    WHEN NOT MATCHED THEN
      INSERT
      VALUES
        (b.jyzblsh,
         b.yljgdm,
         b.bgdh,
         b.bgrq,
         b.jcrgh,
         b.jcrxm,
         b.shrgh,
         b.shrxm,
         b.ybsfdm,
         b.ybsfdmyb,
         b.jczbdm,
         b.jcff,
         b.jczbmc,
         b.jczbjg,
         b.loinc,
         b.sbbm,
         b.yqbh,
         b.yqmc,
         b.ckz,
         b.jldw,
         b.ycts,
         b.yzid,
         b.dyxh,
         b.xgbz,
         b.region_code,
         NULL,
         b.operate_date);
    COMMIT;
```

```sql
INSERT INTO regbuf_v20_bak.tb_lis_indicators
   (jyzblsh,
    yljgdm,
    bgdh,
    bgrq,
    jcrgh,
    jcrxm,
    shrgh,
    shrxm,
    ybsfdm,
    ybsfdmyb,
    jczbdm,
    jcff,
    jczbmc,
    jczbjg,
    loinc,
    sbbm,
    yqbh,
    yqmc,
    ckz,
    jldw,
    ycts,
    yzid,
    dyxh,
    xgbz,
    region_code,
    dah,
    operate_date)
  SELECT jyzblsh,
         yljgdm,
         bgdh,
         bgrq,
         jcrgh,
         jcrxm,
         shrgh,
         shrxm,
         ybsfdm,
         ybsfdmyb,
         jczbdm,
         jcff,
         jczbmc,
         jczbjg,
         loinc,
         sbbm,
         yqbh,
         yqmc,
         ckz,
         jldw,
         ycts,
         yzid,
         dyxh,
         xgbz,
         region_code,
         dah,
```

```
            operate_date
      FROM    regbuf_v20.tb_lis_indicators;
    COMMIT;


    INSERT INTO regbuf_v20.tb_data_statistics
        (inspector_date, institution_code, table_name, total_number)
      SELECT to_char(operate_date, 'yyyymmdd'),
              region_code,
              'tb_lis_indicators',
              COUNT(1)
      FROM    regbuf_v20.tb_lis_indicators
      GROUP  BY region_code, to_char(operate_date, 'yyyymmdd');
    COMMIT;




END sp_data_porter;
```