```sql
CREATE OR REPLACE PROCEDURE SCHEMA.PRO_XXXX(P_SDATE VARCHAR2)      创建新或者替换已有存储过程
IS
  /*************************************************
    过程:PRO_XXXX描述
    源表:ODS
    目标表:XXXX
    创建人:XXXX
    创建时间:YYYY-MM-DD
  **************************************************/
  V_SDATE DATE := TO_DATE(P_SDATE, 'YYYY/MM/DD');
  V_ERR  VARCHAR2(2000);

    CURSOR CUR_XXX IS
    ....

    TYPE XXX_TYPE IS TABLE OF CUR_XXX%ROWTYPE INDEX BY BINARY_INTEGER;   定义一个类型，类上Java上一个实体类，User
    TAB_XXX XXX_TYPE;      定义一个集合，类上Java上一个List，List<User>
    LIMIT_ROWS NUMBER := 10000;
    BULK_ERROR EXCEPTION;
    PRAGMA EXCEPTION_INIT(BULK_ERROR, -24381);
  -------------------------------------------------------------------------------------

BEGIN                                                      记录存储过程执行日志
    INSERT INTO P2P_CFS_LOG VALUES ('PRO_XXXX存储过程开始', SYSDATE);
    COMMIT;
    INSERT INTO P2P_CFS_LOG VALUES ('CUR_XXX游标开始', SYSDATE);
    COMMIT;
     OPEN CUR_XXX;
     LOOP
     BEGIN                              从游标拿出一批数据，存在集合中去，分批处理
     FETCH CUR_XXX BULK COLLECT INTO TAB_XXX LIMITED LIMIT_ROWS;
     FOR I IN 1..TAB_XXX.COUNT SAVE EXCEPTIONS
     INSERT INTO XXX(...) VALUES(TAB_XXX(I).XXX,...);---或者是update语句
     COMMIT;                         游标分批处理，到最后一批的时候，退出
     EXIT WHEN TAB_XXX.COUNT<LIMIT_ROWS;
     EXCEPTION
     WHEN BULK_ERROR THEN
         FOR I IN 1 .. SQL%BULK_EXCEPTIONS.COUNT
         LOOP
             INSERT INTO P2P_CFS_LOG VALUES ('CUR_XXX游标异常:'
             ||TAB_XXX(SQL%BULK_EXCEPTIONS(i).ERROR_INDEX).XXXXXX||'-'||SQLERRM(-
SQL%BULK_EXCEPTIONS(i).ERROR_CODE), SYSDATE);
         END LOOP;
     END;
     END LOOP;
     CLOSE CUR_XXX;
    INSERT INTO P2P_CFS_LOG VALUES ('CUR_XXX游标结束', SYSDATE);
    COMMIT;
    INSERT INTO P2P_CFS_LOG VALUES ('PRO_XXXX存储过程结束', SYSDATE);
    COMMIT
    EXCEPTION
    WHEN OTHERS THEN
    ROLLBACK;
    INSERT INTO P2P_CFS_LOG VALUES ('PRO_XXXX存储过程异常'||SQLCODE||'-'||SQLERRM, SYSDATE);
    COMMIT;
END;
/
```