**oracle 存储过程的基本语法**

**1.基本结构**   
CREATE OR REPLACE PROCEDURE 存储过程名字  
(  
    参数1 IN NUMBER,  
    参数2 IN NUMBER  
) IS  
变量1 INTEGER :=0;  
变量2 DATE;  
BEGIN

END 存储过程名字  
  
**2.SELECT INTO STATEMENT**  
  将select查询的结果存入到变量中，可以同时将多个列存储多个变量中，必须有一条  
  记录，否则抛出异常(如果没有记录抛出NO\_DATA\_FOUND)  
  例子：   
  BEGIN  
  SELECT col1,col2 into 变量1,变量2 FROM typestruct where xxx;  
  EXCEPTION  
  WHEN NO\_DATA\_FOUND THEN  
      xxxx;  
  END;  
  ...  
  
**3.IF 判断**  
  IF V\_TEST=1 THEN  
    BEGIN   
       do something  
    END;  
  END IF;  
  
**4.while 循环**  
  WHILE V\_TEST=1 LOOP  
  BEGIN  
 XXXX  
  END;  
  END LOOP;  
 **5.变量赋值**  V\_TEST := 123;  
 **6.用for in 使用cursor**  
  ...  
  IS  
  CURSOR cur IS SELECT \* FROM xxx;  
  BEGIN  
 FOR cur\_result in cur LOOP  
  BEGIN  
   V\_SUM :=cur\_result.列名1+cur\_result.列名2  
  END;  
 END LOOP;  
  END;  
  
**7.带参数的cursor**  
  CURSOR C\_USER(C\_ID NUMBER) IS SELECT NAME FROM USER WHERE TYPEID=C\_ID;  
  OPEN C\_USER(变量值);  
  LOOP  
 FETCH C\_USER INTO V\_NAME;  
 EXIT FETCH C\_USER%NOTFOUND;  
    do something  
  END LOOP;  
  CLOSE C\_USER;  
  
**8.用pl/sql developer debug**  连接数据库后建立一个Test WINDOW  
  在窗口输入调用SP的代码,F9开始debug,CTRL+N单步调试

**关于oracle存储过程的若干问题备忘**

1.在oracle中，数据表别名不能加as，如：

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifselect a.appname from appinfo a;-- 正确  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifselect a.appname from appinfo as a;-- 错误

 也许，是怕和oracle中的存储过程中的关键字as冲突的问题吧

2.在存储过程中，select某一字段时，后面必须紧跟into，如果select整个记录，利用游标的话就另当别论了。

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif  select af.keynode into kn from APPFOUNDATION af where af.appid=aid and af.foundationid=fid;-- 有into，正确编译  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif  select af.keynode from APPFOUNDATION af where af.appid=aid and af.foundationid=fid;-- 没有into，编译报错，提示：Compilation   
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif  Error: PLS-**00428**: an INTO clause is expected in this SELECT statement  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif

3.在利用select...into...语法时，必须先确保数据库中有该条记录，否则会报出"no data found"异常。

   可以在该语法之前，先利用select count(\*) from 查看数据库中是否存在该记录，如果存在，再利用select...into...

4.在存储过程中，别名不能和字段名称相同，否则虽然编译可以通过，但在运行阶段会报错

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif select keynode into kn from APPFOUNDATION where appid=aid and foundationid=fid;-- 正确运行  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifselect af.keynode into kn from APPFOUNDATION af where af.appid=appid and af.foundationid=foundationid;-- 运行阶段报错，提示  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifORA-**01422**:exact fetch returns more than requested **number** of rowshttp://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif

5.在存储过程中，关于出现null的问题

假设有一个表A，定义如下：

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifcreate table A(  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifid **varchar2**(**50**) primary key not null,  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifvcount **number**(**8**) not null,  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifbid **varchar2**(**50**) not null -- 外键   
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif);

如果在存储过程中，使用如下语句：

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifselect sum(vcount) into fcount from A where bid='xxxxxx';

如果A表中不存在bid="xxxxxx"的记录，则fcount=null(即使fcount定义时设置了默认值，如：fcount number(8):=0依然无效，fcount还是会变成null)，这样以后使用fcount时就可能有问题，所以在这里最好先判断一下：

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifif fcount is null then  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif    fcount:=0;  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gifend if;

这样就一切ok了。

6.Hibernate调用oracle存储过程

http://images.csdn.net/syntaxhighlighting/OutliningIndicators/None.gif        this.pnumberManager.getHibernateTemplate().execute(  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/ExpandedBlockStart.gifhttp://images.csdn.net/syntaxhighlighting/OutliningIndicators/ContractedBlock.gif                new HibernateCallback() ...{  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                    public Object doInHibernate(Session session)  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/ExpandedSubBlockStart.gifhttp://images.csdn.net/syntaxhighlighting/OutliningIndicators/ContractedSubBlock.gif                            throws HibernateException, SQLException ...{  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                        CallableStatement cs = session  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                                .connection()  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                                .prepareCall("{call modifyapppnumber\_remain(?)}");  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                        cs.setString(1, foundationid);  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                        cs.execute();  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/InBlock.gif                        return null;  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/ExpandedSubBlockEnd.gif                    }  
http://images.csdn.net/syntaxhighlighting/OutliningIndicators/ExpandedBlockEnd.gif                });