

CREATE OR REPLACE PACKAGE BODY pkg_db_maintainace_v21 IS

```
CREATE OR REPLACE PACKAGE BODY pkg_db_maintainace_v21 IS
```

```
    v_script VARCHAR2(4096);
```

```
PROCEDURE p_shrink_table(v_owner in VARCHAR2, v_month in number) AS
```

```
CURSOR c_segments IS
```

```
    SELECT *
```

```
    FROM sys.dba_segments a
```

```
WHERE 1 = 1
```

```
    AND a.owner = v_owner
```

```
    AND a.segment_name IN
```

```
        (SELECT upper(tab_code) FROM qzj_etl_v21.sys_table_list)
```

```
and (a.owner, a.segment_name) not in
```

```
    (SELECT owner, table_name
```

```
        FROM all_indexes a
```

```
    WHERE 1 = 1
```

```
        AND a.owner = v_owner
```

```
        AND a.table_name IN
```

```
            (SELECT upper(tab_code) FROM qzj_etl_v21.sys_table_list)
```

```
        and a.index_type = 'FUNCTION-BASED NORMAL'
```

```
    group by owner, table_name)
```

```
ORDER BY a.owner, a.segment_name, a.partition_name;
```

```
CURSOR c_tab_name IS
```

```
    SELECT table_name
```

```
    FROM all_indexes a
```

```
WHERE 1 = 1
```

```
    AND a.owner = v_owner
```

```
    AND a.table_name IN
```

```
        (SELECT upper(tab_code) FROM qzj_etl_v21.sys_table_list)
```

```
and (a.OWNER, a.TABLE_NAME) not in
```

```
    (SELECT owner, table_name
```

```
        FROM all_indexes a
```

```
    WHERE 1 = 1
```

```
        AND a.owner = v_owner
```

```
        AND a.table_name IN
```

```
            (SELECT upper(tab_code) FROM qzj_etl_v21.sys_table_list)
```

```
        and a.index_type = 'FUNCTION-BASED NORMAL'
```

```
    group by owner, table_name)
```

```
group by owner, table_name;
```

```
v_segments dba_segments%ROWTYPE;
```

```
p_month          NUMBER;
```

```
v_segment_name   VARCHAR2(32);
```

```
v_partition_name_b VARCHAR2(32);
```

```
v_partition_name_e VARCHAR2(32);
```

```
v_segment_type   VARCHAR2(32);
```

```
v_segment_subtype VARCHAR2(32);
```

```
v_table_name     VARCHAR2(32);
```

```
v_tmp           VARCHAR2(16);
```

```
BEGIN
```

```

if (v_owner is null) OR (v_owner ='QZJ_CORE_V20' AND v_month is null) then
    dbms_output.put_line(' 参数输入错误，程序自动退出! ');
    return;
end if;

OPEN c_tab_name;
LOOP
    FETCH c_tab_name
        INTO v_table_name;
    EXIT WHEN c_tab_name%NOTFOUND;

    select A.ROW_MOVEMENT INTO V_TMP
    FROM ALL_TABLES A
    WHERE A.OWNER = 'QZJ_INTERFACE_V21' AND A.TABLE_NAME=v_table_name;

    IF V_TMP='DISABLED' THEN
        v_script := 'ALTER TABLE ' || v_owner || '.' || v_table_name ||
            ' ENABLE ROW MOVEMENT';
        dbms_output.put_line(v_script || ';' );
        --EXECUTE IMMEDIATE v_script;
    END IF;
END LOOP;

p_month          := 0 - v_month;
v_partition_name_b := to_char(add_months(SYSDATE, p_month), 'YYYYMM');
v_partition_name_e := to_char(SYSDATE, 'YYYYMM');

dbms_output.put_line('v_month : ' || v_month);
dbms_output.put_line('v_partition_name_b : ' || v_partition_name_b);
dbms_output.put_line('v_partition_name_e : ' || v_partition_name_e);

OPEN c_segments;
LOOP
    FETCH c_segments
        INTO v_segments;
    EXIT WHEN c_segments%NOTFOUND;

    v_segment_name      := v_segments.segment_name;
    v_segment_type      := v_segments.segment_type;
    v_segment_subtype   := v_segments.segment_subtype;

    IF (v_segment_subtype = 'ASSM' AND v_segment_type = 'TABLE') THEN
        v_script := 'ALTER TABLE ' || v_owner || '.' || v_segment_name ||
            ' SHRINK SPACE';
        dbms_output.put_line(v_script || ';' );
        --EXECUTE IMMEDIATE v_script;
    ELSIF (v_segment_subtype = 'ASSM' AND
        v_segment_type = 'TABLE PARTITION') THEN

        IF v_owner = 'QZJ_CORE_V20' THEN

            IF (substr(v_segments.partition_name, 2, 6) >= v_partition_name_b AND
                substr(v_segments.partition_name, 2, 6) <= v_partition_name_e) THEN
                v_script := 'ALTER TABLE ' || v_owner || '.' || v_segment_name ||
                    ' MODIFY PARTITION ' || v_segments.partition_name ||
                    ' SHRINK SPACE';
                dbms_output.put_line(v_script || ';' );
                --EXECUTE IMMEDIATE v_script;
            
```

```

        ELSE
            NULL;
        END IF;
    ELSE
        v_script := 'ALTER TABLE ' || v_owner || '.' || v_segment_name ||
            ' MODIFY PARTITION ' || v_segments.partition_name ||
            ' SHRINK SPACE';
        dbms_output.put_line(v_script || ';' );
        --EXECUTE IMMEDIATE v_script;
    END IF;
ELSE
    NULL;
END IF;

END LOOP;
END;

```

```

PROCEDURE p_rebuild_index(v_owner VARCHAR2 )AS

```

```

CURSOR c_indexes IS
    SELECT *
    FROM all_indexes a
    WHERE a.table_owner = v_owner;
    --AND a.table_name IN
    --    (SELECT tab_code FROM qzj_etl_v21.sys_table_list);

v_indexes all_indexes%ROWTYPE;

v_index_name VARCHAR2(32);
BEGIN
    SELECT 1 INTO v_script FROM dual;

    OPEN c_indexes;

    LOOP
        FETCH c_indexes
            INTO v_indexes;
        EXIT WHEN c_indexes%NOTFOUND;

        v_index_name := v_indexes.index_name;

        v_script := 'ALTER INDEX ' || v_owner || '.' || v_index_name ||
            ' rebuild online parallel 4 nologging ';
        dbms_output.put_line(v_script || ';' );
        --EXECUTE IMMEDIATE v_script;

    END LOOP;

END;

END pkg_db_maintainace_v21;

```