

**CORE** isimli bir package oluşturulacak. Paket altında oluşturulacak function ve procedure ler aşağıdaki gibidir.

- **schema\_size(pschema,ptype)**(ptype ile dışarıdan parametre alıp ona göre sonuç dönecek. Ptype boş gelirse schemanın toplam boyutunu getirecek. Ptype Table gelirse schemaya ait tabloların toplam boyutunu getirecek. Index gelirse schemaya ait indexlerin toplam boyutlarını getirecek. Mview gelirse materialized view toplam boyutunu getirecek) Function
- **schema\_size\_detail(pschema,ptype)**(ptype ile dışarıdan parametre alıp ona göre sonuç dönecek. Ptype Table gelirse schemaya ait Boyutu 1GB ve üstü tabloları getirecek. Index gelirse schemaya ait boyutu 1GB ve üstü olan indexleri getirecek. Mview gelirse materialized viewleri ve boyutlarını getirecek) Function
- **table\_size(pschema,ptable,ptype)**(Schemaya ait tabloların boyutlarını getirecek. ptype ile içeriye bir parametre alınacak. Ptype boş gelirse tablo+blob+index boyutu toplanıp yazılacak. Bu parametreye All (gelirse table, blob, index ayrı ayrı tümünü getirip yazacak. Table gelirse sadece tablo boyutu, index gelirse sadece o tabloya ait index boyutu ve blob gelirse sadece o tabloya ait blob saha boyutunu yazacak.) Function
- **tbs\_free(ptbs)**(Tablespace in boş kalan alanını ve son 7 günlük büyümesini getirecek. Boş alanı getirirken geçtiğimiz günlerde yapılan gerçek boş alanı bulma kısmı da kullanılacak.) Function
- **tbs\_cnt**(Tablespacelerin boş kalan boyutlarını, bir tabloya yazacak. Bunun için oluşturulacak tablo aşağıdadır.) Procedure

```
tbs_log
    ID number,
    tablespace_Name varchar2(50),
    tablespace_id number,
    total_size number,
    free_size number,
    available_size number,
    control_date date default sysdate
```

## SCHEMA SIZE

```
CREATE OR REPLACE FUNCTION DATADK.schema_size (pschema  VARCHAR2,
                                                ptype    VARCHAR2)
RETURN varchar2
IS
total_schema varchar2(15);
total_table  varchar2(15);
total_index  varchar2(15);
total_mview  varchar2(15);
BEGIN

IF ptype IS NULL
THEN
    SELECT SUM (bytes) / 1024 / 1024 / 1024 AS SIZE_SCHEMA into total_schema
    FROM dba_segments
    WHERE owner = pschema;
    return total_schema || ' GB';

ELSIF (ptype = 'TABLE')
THEN
    SELECT SUM (bytes) / 1024 / 1024 / 1024 AS SIZE_TABLE into total_table
    FROM dba_segments
    WHERE owner = pschema AND segment_type = ptype;
    return total_table || ' GB';
```

```

ELSIF (ptype = 'INDEX')
THEN
    SELECT SUM (bytes) / 1024 / 1024 / 1024 AS SIZE_TABLE into total_index
    FROM dba_segments
    WHERE owner = pschema AND segment_type = ptype;
    return total_index || ' GB';

ELSIF (ptype = 'MATERIALIZED VIEW')
THEN
    select SUM (bytes) / 1024 / 1024 / 1024 as SIZE_MVIEW into total_mview
    from dba_mviews a, dba_segments b
    where a.owner = pschema and b.owner = pschema
    and a.mview_name = b.segment_name and segment_type = ptype;
    return total_mview || ' GB';
    IF total_mview IS NULL
    THEN
        return 0;
    ELSE
        return total_mview;
    END IF;
END IF;
END schema_size;

```

```
select datadk.schema_size('DATADK', NULL) from dual;
```

```

SQL> DATADK.SCHEMA_SIZE('DATADK',NULL)
.0023193359375 GB

```

```
select datadk.schema_size('DATADK', 'TABLE') from dual;
```

```

SQL> DATADK.SCHEMA_SIZE('DATADK','TABLE')
.00177001953125 GB

```

```
select datadk.schema_size('DATADK', 'INDEX') from dual;
```

```

SQL> DATADK.SCHEMA_SIZE('DATADK','INDEX')
.00042724609375 GB

```

### Materialized view oluşturma:

```
CREATE MATERIALIZED VIEW mview BUILD IMMEDIATE REFRESH FORCE ON DEMAND AS
SELECT * FROM datadk.iller;
```

```
select datadk.schema_size('DATADK', 'MATERIALIZED VIEW') from dual;
```

```

SQL> DATADK.SCHEMA_SIZE('DATADK','MATERIALIZEDVIEW')
.00006103515625 GB

```

### SCHEMA SIZE DETAIL

```

CREATE OR REPLACE FUNCTION DATADK.schema_size_detail (pschema  VARCHAR2 ,
                                                       ptype     VARCHAR2 )
RETURN varchar2
is
    total_value  VARCHAR2 (500);
    total        varchar2 (5000);
    CURSOR c1

```

```

IS
    SELECT owner,
           segment_name,
           segment_type,
           bytes
    FROM dba_segments
    WHERE owner = pschema AND segment_type = 'TABLE';

CURSOR c2
IS
    SELECT owner,
           segment_name,
           segment_type,
           bytes
    FROM dba_segments
    WHERE owner = pschema AND segment_type = 'INDEX';

cursor c3
IS
    SELECT ds.owner,
           ds.segment_name,
           ds.segment_type,
           ds.bytes,
           mv.mview_name
    FROM dba_segments ds
    LEFT OUTER JOIN dba_mviews mv ON ds.segment_name = mv.mview_name
    WHERE ds.owner = pschema
          AND ds.segment_type = 'TABLE'
          AND mv.mview_name = ds.segment_name;

BEGIN
    IF ptype = 'TABLE'
    THEN
        FOR i IN c1
        LOOP
            SELECT bytes/1024/1024/1024
            INTO total_value
            FROM dba_segments
            WHERE bytes > 1073741824 AND owner = pschema AND segment_type=ptype AND
segment_name=i.segment_name;
            total:= total || CHR(13) || i.segment_name || ' tablosunun boyutu: ' || total_value ||
' GB';
        END LOOP;

        ELSIF (ptype = 'INDEX')
        THEN
            FOR i IN c2
            LOOP
                SELECT bytes/1024/1024/1024
                INTO total_value
                FROM dba_segments
                WHERE bytes > 1073741824 AND owner = pschema AND segment_type=ptype AND
segment_name=i.segment_name;
                total:= total || CHR(13) || i.segment_name || ' indexinin boyutu: ' || total_value ||
' GB';

                END loop;

            ELSIF (ptype = 'MATERIALIZED VIEW')
            THEN
                FOR i IN c3
                LOOP
                    select bytes/1024/1024/1024 into total_value from dba_segments ds,dba_mviews mv
where ds.segment_name=mv.mview_name and ds.segment_type='TABLE'
and ds.owner=UPPER(pschema)
and mv.mview_name=i.segment_name and bytes > 1073741824 order by bytes desc;
                    total:= total|| CHR(13) || i.segment_name || ' isimli MATERIALIZED_VIEWin boyutu
:' || total_value|| ' GB';
                END loop
            END IF;

```

```
select datadk.schema_size_detail('DATADK', 'TABLE') from dual;
```

```
select datadk.schema_size_detail('DATADK', 'INDEX') from dual;
```

```
select datadk.schema size detail('DATADK', 'MATERIALIZED VIEW') from dual;
```

[illegible]

```

SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
    INTO tbl_size
FROM DBA_SEGMENTS
WHERE      SEGMENT_NAME = UPPER (ptable)
      AND SEGMENT_TYPE = 'TABLE'
      AND owner = UPPER (pschema);

SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
    INTO lob_size
FROM dba_segments
WHERE segment_name IN (SELECT segment_name
                        FROM dba_lobs
                        WHERE      OWNER = UPPER (pschema)
                        AND table_name = UPPER (ptable));

      total := total || CHR (13) || pschema || ' şemasının ' || ptable || ' tablosuna
ait TABLE, INDEX ve LOB toplam boyutu : ' ||
      to_char(index_total_size + tbl_size +lob_size) || 'GB';
END IF;

IF ptype = 'ALL'
THEN
SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
    INTO index_total_size
FROM dba_segments
WHERE segment_name IN (SELECT index_name
                        FROM dba_indexes
                        WHERE      table_OWNER = UPPER (pschema)
                        AND table_name = UPPER (ptable));

SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
    INTO tbl_size
FROM DBA_SEGMENTS
WHERE      SEGMENT_NAME = UPPER (ptable)
      AND SEGMENT_TYPE = 'TABLE'
      AND owner = UPPER (pschema);

SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
    INTO lob_size
FROM dba_segments
WHERE segment_name IN (SELECT segment_name
                        FROM dba_lobs
                        WHERE      OWNER = UPPER (pschema)
                        AND table_name = UPPER (ptable));

total :=
total
|| CHR (13)
||CHR (13) || pschema || (' şemasının ' || ptable || ' tablosuna ait');
total := total || CHR (13) || ('INDEX boyutu : ' || index_total_size || 'GB');
total := total || CHR (13) || ('BLOB boyutu : ' || lob_size || 'GB');
total := total || CHR (13) || ('TABLO boyutu : ' || tbl_size || 'GB');
END IF;

IF ptype = 'TABLE'
THEN
SELECT SUM (BYTES) / 1024 / 1024 / 1024
    INTO p_total
FROM DBA_SEGMENTS
WHERE SEGMENT_NAME = UPPER (ptable) AND owner = UPPER (pschema);
total := total || CHR (13) || ( pschema || ' şemasının ' || ptable || ' tablosuna ait
TABLO boyutu: ' || p_total || ' GB') ;
END IF;

IF ptype = 'INDEX'
THEN
SELECT SUM (bytes) / 1024 / 1024 / 1024
    INTO p_total

```

```

        FROM dba_segments
        WHERE segment_name IN (SELECT index_name
                                FROM dba_indexes
                                WHERE table_OWNER = UPPER (pschema)
                                    AND table_name = UPPER (ptable));

        total := total || CHR (13) || pschema || (' şemasının ' || ptable || ' tablosuna ait
INDEX boyutu: ' || p_total || 'GB');
    END IF;

    IF ptype = 'LOBSEGMENT'
    THEN
        SELECT NVL (SUM (bytes) / 1024 / 1024 / 1024, 0)
            INTO p_total
            FROM dba_segments
            WHERE segment_name IN (SELECT segment_name
                                    FROM dba_lobs
                                    WHERE OWNER = UPPER (pschema)
                                        AND table_name = UPPER (ptable));

        total := total || CHR (13) || (pschema || ' şemasının ' || ptable || ' tablosuna ait LOB
SEGMENT boyutu: ' || p_total || ' GB');
    END IF;

    RETURN total;
END table_size;
/

```

```
select datadk.table_size('DATADK','ILLER',NULL) from dual;
```

1	
2	DATADK şemasının ILLER tablosuna ait TABLE, INDEX ve LOB toplam boyutu : .000244140625GB

```
select datadk.table_size('DATADK','ILLER', 'ALL') from dual;
```

3	DATADK şemasının ILLER tablosuna ait
4	INDEX boyutu : .0001220703125GB
5	BLOB boyutu : .00006103515625GB
6	TABLO boyutu : .00006103515625GB

```
select datadk.table_size('DATADK','PERSONEL', 'LOBSEGMENT') from dual;
```

1	
2	DATADK şemasının PERSONEL tablosuna ait LOB SEGMENT boyutu: 0 GB

```
select datadk.table_size('DATADK','ILLER', 'TABLE') from dual;
```

1	
2	DATADK şemasının ILLER tablosuna ait TABLO boyutu: .00006103515625 GB

```
select datadk.table_size('DATADK','ILLER', 'INDEX') from dual;
```

1	
2	DATADK şemasının ILLER tablosuna ait INDEX boyutu: .0001220703125GB

#### BLOB ALAN EKLENMESİ:

```
alter table ILLER add x_blob blob;
insert into DATADK.iller(il_id, il_adı,x_blob) values(09,'Aydın',hextoraw('453d7ggga34'));
```

#### TBS FREE

```
CREATE OR REPLACE FUNCTION DATADK.tbs_free(ptbs VARCHAR2)
RETURN VARCHAR2
IS
growth varchar2(1000);
free varchar2(1000);
cursor cr1 IS select thedate, (mbsize - prev_mbsize) diff
                from (select thedate, mbsize, lag(mbsize, 1) over(order by r) prev_mbsize
                from (select rownum r, thedate, mbsize
                from (select trunc(thedate) thedate, max(mbsize) mbsize
                from (select to_date(to_char(ss.begin_interval_time -1,'YYYY-MON-DD
HH24:MI:SS'),'YYYY-MON-DD HH24:MI:SS') thedate,
                round((us.tablespace_usedsize * bs.value)/1024/1024,2) mbsize
                from dba_hist_tbspc_space_usage us,v$tablespace ts,dba_hist_snapshot
ss,v$parameter bs
                where us.snap_id = ss.snap_id
                and us.tablespace_id = ts.ts#
                and ts.name =ptbs
                and bs.name = 'db_block_size'
                and ss.begin_interval_time > sysdate-7
                and ss.begin_interval_time < trunc(sysdate))
                group by trunc(thedate)
                order by trunc(thedate)))));

cursor cr2 IS select q1.tablespace_name,q1.usable,q2.tfree from(SELECT
                substr(A.tablespace_name,1,14) tablespace_name,

sum(trunc(decode(A.autoextensible,'YES',A.MAXSIZE-A.bytes+b.free,'NO',b.free)/1024/1024))
usable
        FROM (
                SELECT file_id, file_name,
                tablespace_name,
                autoextensible,
                bytes,
                decode(autoextensible,'YES',maxbytes,bytes) maxsize
        FROM dba_data_files
        GROUP BY file_id, file_name,
                tablespace_name,
                autoextensible,
                bytes,
                decode(autoextensible,'YES',maxbytes,bytes)
        ) a,
        (SELECT file_id,
                tablespace_name,
                sum(bytes) free
        FROM dba_free_space
        GROUP BY file_id,
                tablespace_name
        ) b
        ,
        (select file# from v$datafile where creation_time>sysdate-100) c
WHERE a.file_id=b.file_id(+)
AND A.tablespace_name=b.tablespace_name(+) and c.file#=b.file_id
group by a.tablespace_name
ORDER BY A.tablespace_name ASC) q1 inner join
(select tspace,tfree
```

```

        from (SELECT tspace,
                    sayi,
                    ttoplaml,
                    tsonboyut,
                    ((ttoplaml - tsonboyut) + tfree) tfree
        FROM (SELECT t.tablespace_name tspace,
                    COUNT(*) sayi,
                    SUM(t.maxbytes / 1024 / 1024) ttoplaml,
                    SUM(t.user_bytes / 1024 / 1024) tsonboyut,
                    (SELECT SUM(bytes / 1024 / 1024)
                     FROM dba_free_space dfs
                     WHERE dfs.tablespace_name = t.tablespace_name) tfree
        FROM dba_data_files t, dba_tablespaces s
        WHERE t.tablespace_name = s.tablespace_name
        AND t.tablespace_name=ptbs
        GROUP BY t.tablespace_name))

    order by 1
    ) q2 on q1.tablespace_name=q2.tspace;

BEGIN
for i in cr1
    loop
        growth:= growth || CHR(13) || (' Tarih : ' || i.thedate || ' Boyut : ' ||
i.diff||'MB');

        end loop;
    for i in cr2
        loop
            free := free || CHR (13) || (ptbs || ' tablespaceinin boş alanı:' ||
i.tfree ||'GB' || ' kullanılabilir alanı:' || i.usable ||'GB' );

        end loop;

    return free||growth;

END tbs_free;

```

```
select datadk.tbs_free('DATAIDX') from dual;
```

	0	10	20	30	40	50	60	70	80
1									
2	DATAIDX tablespaceinin boş alanı:16260.75GB kullanılabilir alanı:8076GB								
3	Tarih : 16-MAR-20 Boyut : MB								
4	Tarih : 17-MAR-20 Boyut : 0MB								
5	Tarih : 18-MAR-20 Boyut : 0MB								
6	Tarih : 19-MAR-20 Boyut : 0MB								

## TBS\_CNT

```

CREATE OR REPLACE PROCEDURE DATADK.TBS_CNT
IS
CURSOR cr
IS
    SELECT q1.tablespace_name,
           q1.usable,
           q2.tfree,
           tid,
           ttoplaml
    FROM ( ( SELECT SUBSTR (A.tablespace_name, 1, 14) tablespace_name,
                        SUM (

```



```

        TRUNC ( DECODE (A.autoextensible,'YES', A.MAXSIZE - A.bytes +
b.free,'NO', b.free) / 1024 / 1024)) usable
        FROM ( SELECT file_id,
                    file_name,
                    tablespace_name,
                    autoextensible,
                    bytes,
                    DECODE (autoextensible,
                        'YES', maxbytes,
                        bytes)
                    maxsize
                FROM dba_data_files
                GROUP BY file_id,
                    file_name,
                    tablespace_name,
                    autoextensible,
                    bytes,
                    DECODE (autoextensible,
                        'YES', maxbytes,
                        bytes)) a,
        ( SELECT file_id, tablespace_name, SUM (bytes) free
          FROM dba_free_space
         GROUP BY file_id, tablespace_name) b,
        (SELECT file#
          FROM v$datafile
         WHERE creation_time > SYSDATE - 100) c
    WHERE      a.file_id = b.file_id(+)
              AND A.tablespace_name = b.tablespace_name(+)
              AND c.file# = b.file_id
    GROUP BY a.tablespace_name
    ORDER BY A.tablespace_name ASC) q1
INNER JOIN
    ( SELECT tspace,
            tfree,
            tid,
            ttoplam
      FROM (SELECT tspace,
                  sayi,
                  ttoplam,
                  tsonboyut,
                  tid,
                  ( (ttoplam - tsonboyut) + tfree) tfree
            FROM ( SELECT t.tablespace_name tspace,
                          tt.ts# tid,
                          COUNT (*) sayi,
                          SUM (t.maxbytes / 1024 / 1024) ttoplam,
                          SUM (t.user_bytes / 1024 / 1024)
                            tsonboyut,
                          (SELECT SUM (bytes / 1024 / 1024)
                           FROM dba_free_space dfs
                           WHERE dfs.tablespace_name =
                                t.tablespace_name)
                            tfree
                        FROM dba_data_files t,
                        dba_tablespaces s,
                        v$tablespace tt
                       WHERE      t.tablespace_name =
                                s.tablespace_name
                                AND t.tablespace_name = tt.name
                       GROUP BY t.tablespace_name, tt.ts#))
            ORDER BY 1) q2
    ON q1.tablespace_name = q2.tspace);

BEGIN

for i in cr
loop

    INSERT INTO DATADK.TBS_LOG
    (tablespace_name,tablespace_id,free_size,total_size,available_size,control_date) VALUES
    (i.tablespace_name,i.tid,i.tfree,i.ttoplam,i.usable,sysdate);

```

```

        commit;
        end loop;

    END;

/

BEGIN
DATADK.TBS_CNT;
END;
/

```

## **TBS LOG**

```

CREATE TABLE DATADK.TBS_LOG
(
    ID                NUMBER,
    TABLESPACE_NAME  VARCHAR2(50),
    TABLESPACE_ID    NUMBER,
    TOTAL_SIZE        NUMBER,
    FREE_SIZE         NUMBER,
    AVAILABLE_SIZE    NUMBER,
    CONTROL DATE      DATE)

```

```
SELECT * FROM TBS_LOG;
```

ID	TABLESPACE_NAME	TABLESPACE_ID	TOTAL_SIZE	FREE_SIZE	AVAILABLE_SIZE	CONTROL_DATE
	ADSS	5	8192	8190,6875	8189	21.03.2020 19:20:03
	DATA	7	8192	8188,3125	8187	21.03.2020 19:20:03
	DATAIDX	6	16384	16260,75	8076	21.03.2020 19:20:03
	DENEME	8	8192	8192	8191	21.03.2020 19:20:03
	SYSAUX	1	32767,984375	32582,734375	32581	21.03.2020 19:20:03
	SYSTEM	0	32767,984375	32422,171875	32421	21.03.2020 19:20:03
	TABLESPACE	9	24576	24438	8071	21.03.2020 19:20:03
	TBS	10	8192	8192	8191	21.03.2020 19:20:03
	UNDOTBS1	2	32767,984375	32748,734375	32747	21.03.2020 19:20:03
	USERS	4	32767,984375	32767,546875	32766	21.03.2020 19:20:03

## **CORE İSİMLİ PACKAGE OLUŞTURULMASI:**

### **SPEC**

```

CREATE OR REPLACE PACKAGE DATADK.CORE
AS
    FUNCTION schema_size (pschema IN VARCHAR2,ptype IN VARCHAR2)
    RETURN VARCHAR2;
    FUNCTION schema_size_detail (pschema IN VARCHAR2,ptype IN VARCHAR2)
    RETURN VARCHAR2;
    FUNCTION table_size(pschema IN VARCHAR2,ptable IN VARCHAR2,ptype IN VARCHAR2)
    RETURN VARCHAR2;
    FUNCTION TBS_FREE(ptbs IN VARCHAR2)
    RETURN VARCHAR2;
    PROCEDURE TBS_CNT ;
END;

```

**BODY:**

```
CREATE OR REPLACE PACKAGE BODY DATADK.CORE
```

```
AS
```

```
    FUNCTION schema_size (pschema    VARCHAR2,ptype VARCHAR2)
    RETURN varchar2
```

```
    IS
```

```
    total_schema varchar2(15);
```

```
    total_table  varchar2(15);
```

```
    total_index   varchar2(15);
```

```
    total_mview   varchar2(15);
```

```
BEGIN
```

```
    IF ptype IS NULL
```

```
    THEN
```

```
        SELECT SUM (bytes) / 1024 / 1024 / 1024 AS SIZE_SCHEMA into total_schema
        FROM dba_segments
```

```
        WHERE owner = pschema;
```

```
        return total_schema || ' GB';
```

```
    ELSIF (ptype = 'TABLE')
```

```
    THEN
```

```
        SELECT SUM (bytes) / 1024 / 1024 / 1024 AS SIZE_TABLE into total_table
        FROM dba_segments
```

```
        WHERE owner = pschema AND segment_type = ptype;
```

```
        return total_table || ' GB';
```

```
    ELSIF (ptype = 'INDEX')
```

```
    THEN
```

```
        SELECT SUM (bytes) / 1024 / 1024 / 1024 AS SIZE_TABLE into total_index
        FROM dba_segments
```

```
        WHERE owner = pschema AND segment_type = ptype;
```

```
        return total_index || ' GB';
```

```
    ELSIF (ptype = 'MATERIALIZED VIEW')
```

```
    THEN
```

```
        select SUM (bytes) / 1024 / 1024 / 1024 as SIZE_MVIEW into total_mview
        from dba_mviews a, dba_segments b
```

```
        where a.owner = pschema and b.owner = pschema
```

```
        and a.mview_name = b.segment_name and segment_type = ptype;
```

```
        return total_mview || ' GB';
```

```
        IF total_mview IS NULL
```

```
        THEN
```

```
            return 0;
```

```
        ELSE
```

```
            return total_mview;
```

```
        END IF;
```

```
    END IF;
```

```
    END schema_size;
```

```
FUNCTION DATADK.schema_size_detail (pschema    VARCHAR2 ,
                                   ptype       VARCHAR2 )
```

```
RETURN varchar2
```

```
is
```

```
total_value    VARCHAR2 (500);
```

```
total          varchar2(5000);
```

```
CURSOR c1
```

```
IS
```

```
    SELECT owner,
```

```
           segment_name,
```

```
           segment_type,
```

```
           bytes
```

```
    FROM dba_segments
```

```
    WHERE owner = pschema AND segment_type = 'TABLE';
```

```
CURSOR c2
```

```
IS
```

```

SELECT  owner,
        segment_name,
        segment_type,
        bytes
FROM    dba_segments
WHERE   owner = pschema AND segment_type = 'INDEX';

cursor c3
IS
SELECT  ds.owner,
        ds.segment_name,
        ds.segment_type,
        ds.bytes,
        mv.mview_name
FROM    dba_segments ds
LEFT OUTER JOIN dba_mviews mv ON ds.segment_name = mv.mview_name
WHERE   ds.owner = pschema
AND     ds.segment_type = 'TABLE'
AND     mv.mview_name = ds.segment_name;

BEGIN
IF ptype = 'TABLE'
THEN
FOR i IN c1
LOOP
SELECT bytes/1024/1024/1024
INTO total_value
FROM dba_segments
WHERE bytes > 1073741824 AND owner = pschema AND segment_type=ptype AND
segment_name=i.segment_name;
total:= total || CHR(13) || i.segment_name || ' tablosunun boyutu: ' || total_value ||
' GB';
END LOOP;

ELSIF (ptype = 'INDEX')
THEN
FOR i IN c2
LOOP
SELECT bytes/1024/1024/1024
INTO total_value
FROM dba_segments
WHERE bytes > 1073741824 AND owner = pschema AND segment_type=ptype AND
segment_name=i.segment_name;
total:= total || CHR(13) || i.segment_name || ' indexinin boyutu: ' || total_value ||
' GB';

END loop;

ELSIF (ptype = 'MATERIALIZED VIEW')
THEN
FOR i IN c3
LOOP

select bytes/1024/1024/1024 into total_value from dba_segments ds,dba_mviews mv
where ds.segment_name=mv.mview_name and ds.segment_type='TABLE'
and ds.owner=UPPER(pschema)
and mv.mview_name=i.segment_name and bytes > 1073741824 order by bytes desc;
total:= total|| CHR(13) || i.segment_name || ' isimli MATERIALIZED_VIEWin boyutu
:' || total_value|| ' GB';
END loop;

END IF;

RETURN total;
END schema_size_detail;

```

```

FUNCTION DATADK.table_size (pschema      VARCHAR2,
                           ptable       VARCHAR2,
                           ptype        VARCHAR2)

RETURN VARCHAR2
IS
  p_total          VARCHAR2(1000) ;
  index_total_size VARCHAR2 (1000);
  tbl_size         VARCHAR2 (1000);
  lob_size         VARCHAR2 (1000);
  total            VARCHAR2 (1000);

BEGIN
  IF ptype IS NULL
  THEN
    SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
      INTO index_total_size
      FROM dba_segments
      WHERE segment_name IN (SELECT index_name
                             FROM dba_indexes
                             WHERE table_OWNER = UPPER (pschema)
                                AND table_name = UPPER (ptable));

    SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
      INTO tbl_size
      FROM DBA_SEGMENTS
      WHERE SEGMENT_NAME = UPPER (ptable)
            AND SEGMENT_TYPE = 'TABLE'
            AND owner = UPPER (pschema);

    SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
      INTO lob_size
      FROM dba_segments
      WHERE segment_name IN (SELECT segment_name
                             FROM dba_lobs
                             WHERE OWNER = UPPER (pschema)
                                AND table_name = UPPER (ptable));

    total := total || CHR (13) || pschema || ' şemasının ' || ptable || ' tablosuna
ait TABLE, INDEX ve LOB toplam boyutu : ' ||
      to_char(index_total_size + tbl_size +lob_size) || 'GB';
  END IF;

  IF ptype = 'ALL'
  THEN
    SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
      INTO index_total_size
      FROM dba_segments
      WHERE segment_name IN (SELECT index_name
                             FROM dba_indexes
                             WHERE table_OWNER = UPPER (pschema)
                                AND table_name = UPPER (ptable));

    SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
      INTO tbl_size
      FROM DBA_SEGMENTS
      WHERE SEGMENT_NAME = UPPER (ptable)
            AND SEGMENT_TYPE = 'TABLE'
            AND owner = UPPER (pschema);

    SELECT NVL (SUM (BYTES) / 1024 / 1024 / 1024, 0)
      INTO lob_size
      FROM dba_segments
      WHERE segment_name IN (SELECT segment_name
                             FROM dba_lobs
                             WHERE OWNER = UPPER (pschema)
                                AND table_name = UPPER (ptable));

    total :=
      total
      || CHR (13)

```

```

||CHR (13) ||pschema || (' şemasının ' || ptable || ' tablosuna ait');
total := total || CHR (13) || ('INDEX boyutu : ' || index_total_size || 'GB');
total := total || CHR (13) || ('BLOB boyutu : ' || lob_size || 'GB');
total := total || CHR (13) || ('TABLO boyutu : ' || tbl_size || 'GB');
END IF;

IF ptype = 'TABLE'
THEN
SELECT SUM (BYTES) / 1024 / 1024 / 1024
INTO p_total
FROM DBA_SEGMENTS
WHERE SEGMENT_NAME = UPPER (ptable) AND owner = UPPER (pschema);
total := total || CHR (13) || ( pschema || ' şemasının ' || ptable || ' tablosuna ait
TABLO boyutu: ' || p_total || ' GB') ;
END IF;

IF ptype = 'INDEX'
THEN
SELECT SUM (bytes) / 1024 / 1024 / 1024
INTO p_total
FROM dba_segments
WHERE segment_name IN (SELECT index_name
FROM dba_indexes
WHERE table_OWNER = UPPER (pschema)
AND table_name = UPPER (ptable));

total := total || CHR (13) || pschema || (' şemasının ' || ptable || ' tablosuna ait
INDEX boyutu: ' || p_total || 'GB');
END IF;

IF ptype = 'LOBSEGMENT'
THEN
SELECT NVL (SUM (bytes) / 1024 / 1024 / 1024, 0)
INTO p_total
FROM dba_segments
WHERE segment_name IN (SELECT segment_name
FROM dba_lobs
WHERE OWNER = UPPER (pschema)
AND table_name = UPPER (ptable));

total := total || CHR (13) || (pschema || ' şemasının ' || ptable || ' tablosuna ait LOB
SEGMENT boyutu: ' || p_total || ' GB');
END IF;

RETURN total;
END table_size;
/

FUNCTION tbs_free(ptbs VARCHAR2)

RETURN VARCHAR2
IS
growth varchar2(1000);
free varchar2(1000);
cursor cr1 IS select thedate, (mbsize - prev_mbsize) diff
from (select thedate, mbsize, lag(mbsize, 1) over(order by r) prev_mbsize
from (select rownum r, thedate, mbsize
from (select trunc(thedate) thedate, max(mbsize) mbsize
from (select to_date(to_char(ss.begin_interval_time -1,'YYYY-MON-DD
HH24:MI:SS'),'YYYY-MON-DD HH24:MI:SS') thedate,
round((us.tablespace_usedsize * bs.value)/1024/1024,2) mbsize
from dba_hist_tbspc_space_usage us,v$tablespace ts,dba_hist_snapshot
ss,v$parameter bs
where us.snap_id = ss.snap_id
and us.tablespace_id = ts.ts#
and ts.name =ptbs
and bs.name = 'db block size'

```

```

        and ss.begin_interval_time > sysdate-7
        and ss.begin_interval_time < trunc(sysdate))
        group by trunc(thedate)
        order by trunc(thedate))));

cursor cr2 IS select q1.tablespace_name,q1.usable,q2.tfree from(SELECT
        substr(A.tablespace_name,1,14) tablespace_name,

sum(trunc(decode(A.autoextensible,'YES',A.MAXSIZE-A.bytes+b.free,'NO',b.free)/1024/1024))
usable
FROM (
        SELECT file_id, file_name,
                tablespace_name,
                autoextensible,
                bytes,
                decode(autoextensible,'YES',maxbytes,bytes) maxsize
        FROM dba_data_files
        GROUP BY file_id, file_name,
                tablespace_name,
                autoextensible,
                bytes,
                decode(autoextensible,'YES',maxbytes,bytes)
        ) a,
        (SELECT file_id,
                tablespace_name,
                sum(bytes) free
        FROM dba_free_space
        GROUP BY file_id,
                tablespace_name
        ) b
        ,
        (select file# from v$datafile where creation_time>sysdate-100) c
WHERE a.file_id=b.file_id(+)
AND A.tablespace_name=b.tablespace_name(+) and c.file#=b.file_id
group by a.tablespace_name
ORDER BY A.tablespace_name ASC) q1 inner join
(select tspace,tfree
from (SELECT tspace,
        sayi,
        ttoplam,
        tsonboyut,
        ((ttoplam - tsonboyut) + tfree) tfree
FROM (SELECT t.tablespace_name tspace,
        COUNT(*) sayi,
        SUM(t.maxbytes / 1024 / 1024) ttoplam,
        SUM(t.user_bytes / 1024 / 1024) tsonboyut,
        (SELECT SUM(bytes / 1024 / 1024)
        FROM dba_free_space dfs
        WHERE dfs.tablespace_name = t.tablespace_name) tfree
FROM dba_data_files t, dba_tablespaces s
WHERE t.tablespace_name = s.tablespace_name
AND t.tablespace_name=ptbs
GROUP BY t.tablespace_name))

order by 1
) q2 on q1.tablespace_name=q2.tspace;

BEGIN
for i in cr1
loop
        growth:= growth || CHR(13) || (' Tarih : ' || i.thedate || ' Boyut : ' ||
i.diff||'MB');

        end loop;
for i in cr2
loop
        free := free || CHR(13) || (ptbs || ' tablespaceinin boş alanı:' ||
i.tfree ||'GB' || ' kullanılabilir alanı:' || i.usable ||'GB' );

        end loop;

```

```

return free||growth;

END tbs_free;

PROCEDURE TBS_CNT
IS
CURSOR cr
IS
    SELECT q1.tablespace_name,
           q1.usable,
           q2.tfree,
           tid,
           ttoplam
    FROM ( ( SELECT SUBSTR (A.tablespace_name, 1, 14) tablespace_name,
                           SUM (
                               TRUNC ( DECODE (A.autoextensible, 'YES', A.MAXSIZE - A.bytes +
b.free, 'NO', b.free) / 1024 / 1024)) usable
                           FROM ( SELECT file_id,
                                         file_name,
                                         tablespace_name,
                                         autoextensible,
                                         bytes,
                                         DECODE (autoextensible,
                                                  'YES', maxbytes,
                                                  bytes)
                                         maxsize
                           FROM dba_data_files
                           GROUP BY file_id,
                                         file_name,
                                         tablespace_name,
                                         autoextensible,
                                         bytes,
                                         DECODE (autoextensible,
                                                  'YES', maxbytes,
                                                  bytes)) a,
                           ( SELECT file_id, tablespace_name, SUM (bytes) free
                           FROM dba_free_space
                           GROUP BY file_id, tablespace_name) b,
                           (SELECT file#
                           FROM v$datafile
                           WHERE creation_time > SYSDATE - 100) c
                           WHERE a.file_id = b.file_id(+)
                           AND A.tablespace_name = b.tablespace_name(+)
                           AND c.file# = b.file_id
                           GROUP BY a.tablespace_name
                           ORDER BY A.tablespace_name ASC) q1
    INNER JOIN
    ( SELECT tspace,
           tfree,
           tid,
           ttoplam
    FROM (SELECT tspace,
                 sayi,
                 ttoplam,
                 tsonboyut,
                 tid,
                 ( (ttoplam - tsonboyut) + tfree) tfree
    FROM ( SELECT t.tablespace_name tspace,
                  tt.ts# tid,
                  COUNT (*) sayi,
                  SUM (t.maxbytes / 1024 / 1024) ttoplam,
                  SUM (t.user_bytes / 1024 / 1024)
                  tsonboyut,
                  (SELECT SUM (bytes / 1024 / 1024)
                   FROM dba_free_space dfs
                   WHERE dfs.tablespace_name =
                     t.tablespace_name)
                  tfree
    FROM dba_data_files t,
    dba tablespaces s,

```



```

                                v$tablespace tt
                                WHERE      t.tablespace_name =
                                           s.tablespace_name
                                AND t.tablespace_name = tt.name
                                GROUP BY t.tablespace_name, tt.ts#))
ORDER BY 1) q2
ON q1.tablespace_name = q2.tspace);

BEGIN
  for i in cr
  loop
    INSERT INTO DATADK.TBS_LOG
(tablespace_name,tablespace_id,free_size,total_size,available_size,control_date) VALUES
(i.tablespace_name,i.tid,i.tfree,i.ttoplam,i.usable,sysdate);
    commit;
  end loop;
END;
END CORE;
/

```

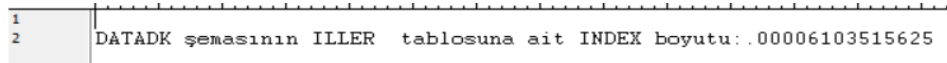
### PACKAGE KULLANARAK FONKSİYON VE PROCEDURE ÇALIŞTIRMAK İÇİN;

```
SELECT CORE.SCHEMA_SIZE('DATADK','TABLE') FROM DUAL; (Function çalıştırmak)
```



SQL\*Plus output showing the result of the CORE.SCHEMA\_SIZE function call. The output is displayed in a red box with a black border, showing the value .0018310546875 GB.

```
SELECT CORE.TABLE_SIZE('DATADK','ILLER','INDEX') FROM DUAL;
```

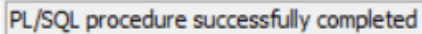


SQL\*Plus output showing the result of the CORE.TABLE\_SIZE function call. The output is displayed in a table with two rows. The first row shows the tablespace name DATADK, the table name ILLER, and the index name INDEX. The second row shows the result of the function call, which is .00006103515625.

```
SELECT CORE.SCHEMA_SIZE_DETAIL('DATADK','INDEX') FROM DUAL;
```

```
SELECT CORE.TBS_FREE('DATAIDX') FROM DUAL;
```

```
EXEC CORE.TBS_CNT; (Procedure çalıştırmak)
```



SQL\*Plus output showing the result of the CORE.TBS\_CNT procedure call. The output is displayed in a box with a black border, showing the message PL/SQL procedure successfully completed.

```

CREATE OR REPLACE FUNCTION DATADK.rman(pdtype VARCHAR2)
RETURN VARCHAR2
IS
    total  varchar2(5000);

    cursor cr1 is
        select (to_char(start_time, 'dd.mm.yyyy hh24:mi:ss')) as
start_time,(to_char(end_time, 'dd.mm.yyyy hh24:mi:ss')) as end_time,status,
        time_taken_display as duration_time,
        (((input_bytes / 1024) / 1024) / 1024) AS INPUT_SIZE, (((output_bytes /
1024) / 1024) / 1024) AS OUTPUT_SIZE from v$rman_backup_job_details
        where trunc(start_time) >=(SELECT TRUNC(MAX(START_TIME)-7) FROM
v$rman_backup_job_details) and rownum<10;

    cursor cr2 is
        select (to_char(start_time, 'dd.mm.yyyy hh24:mi:ss')) as
start_time,(to_char(end_time, 'dd.mm.yyyy hh24:mi:ss')) as end_time,status,
        time_taken_display as duration_time,
        (((input_bytes / 1024) / 1024) / 1024) AS INPUT_SIZE, (((output_bytes /
1024) / 1024) / 1024) AS OUTPUT_SIZE from v$rman_backup_job_details
        where status !='COMPLETED' and trunc(start_time) >=(SELECT
TRUNC(MAX(START_TIME)-7) FROM v$rman_backup_job_details) and rownum<10;
BEGIN

    IF pdtype = 'ALL'
    THEN
        FOR i IN cr1
        LOOP
            total := total || CHR(13) ;

            total:= total || CHR(13) || ' başlangıç tarihi: ' ||
i.start_time ;
            total := total || CHR(13) || ' bitiş tarihi: ' || i.end_time;
            total := total || CHR(13) || ' geçen süre: ' || i.duration_time
;

            total := total || CHR(13) || ' input size: ' || i.INPUT_SIZE ;
            total := total || CHR(13) || ' output size: ' || i.OUTPUT_SIZE
;

            total := total || CHR(13) ;
        END LOOP;

    elsif pdtype = 'FAIL'
    THEN
        for i in cr2
        loop
            total := total || CHR(13) ;
            total:= total || CHR(13) || ' başlangıç tarihi: ' ||
i.start_time ;
            total := total || CHR(13) || ' bitiş tarihi: ' || i.end time;

```

```
        total := total || CHR(13) || ' geçen süre: ' ||  
i.duration_time ;  
        total := total || CHR(13) || ' input size: ' || i.INPUT_SIZE ;  
        total := total || CHR(13) || ' output size: ' || i.OUTPUT_SIZE  
;  
        total := total || CHR(13) ;  
    end loop;  
  
    END IF;  
  
    RETURN total;  
  
END rman;  
  
select datadk.rman('ALL') from dual;  
  
select datadk.rman('FAIL') from dual;
```