Ejercicio 1 - tema 4 Administración de las estructuras de Memoria

Vicente Romero Andrade

I. OBJETIVO

EL objetivo es, Conocer y familiarizarse con las principales vistas y parámetros de la base de datos que muestran o contienen información relevante acerca del uso de las diferentes áreas de la SGA.

II. DESARROLLO

A. C1. Código empleado para crear y poblar la tabla t01_sga_components

```
declare
    v_count number;
    v_username varchar2(30) := 'VRA0401';
    select count(*) into v_count
    from all_tables
    where table_name='T01_SGA_COMPONENTS'
    and owner = v_username;
    if v_count > 0 then
      execute immediate 'drop table '|| v_username ||'
      .' | | 't01_sqa_components';
    end if;
    execute immediate 'create table '|| v_username ||'
      .'||'t01_sga_components(
      memory_target_param number,
      fixed_size number,
14
      variable_size number,
      database_buffers number,
      redo buffers number,
18
      total_sga number
19
20 end;
21
22 insert into vra0401.t01_sga_components(
    memory_target_param_mb,
    fixed_size_mb,
    variable_size_mb,
    database_buffers_mb,
    redo_buffers_mb,
28
    total_sg_mba
    values (
30
      (select trunc(value/1048576,2) from v$parameter
      where name='memory_target'),
      (select trunc(value/1048576,2) from v$sga where
      name = 'Fixed Size'),
      (select trunc(value/1048576,2) from v$sga where
      name = 'Variable Size'),
      (select trunc(value/1048576,2) from v$sga where
      name = 'Database Buffers'),
      (select trunc(value/1048576,2) from v$sga where
      name = 'Redo Buffers'),
      (select SUM(trunc(value/1048576,2)) from v$sga)
```

Código 1. t01_sga_components

B. C2. Respuesta del inciso E del punto 1.2

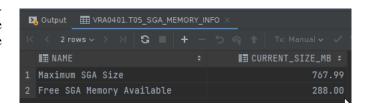


Figure 1. catura

C. C3. Descripción de los ajustes de memoria



Figure 2. tiempo de conteo

No existio reajuste ya que existia un valor de db buffer cache adecuado para la operación a realizar.

D. C4. Mostrar el contenido de cada una de las tablas t0* creadas en este ejercicio excepto la tabla de cadenas aleatorias



Figure 3. tabla t01

```
| Bloomeration | Mark | | Bloomeration | Bloomerati
```

Figure 4. tabla t02



Figure 5. tabla t03

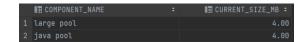


Figure 6. tabla t04

| ■ ■ NAME | ÷ | III CURRENT_SIZE_MB ÷ |
|-----------------------------|---|-----------------------|
| 1 Maximum SGA Size | | 767.99 |
| 2 Free SGA Memory Available | | 288.00 |

Figure 7. tabla t05



Figure 8. tabla t06

| ■ COMPONENT : | ■ INITIAL_SIZE_MB : | N⊞ TARGET_SIZE_MB : | I⊞ FINAL_SIZE_MB : | I⊞ INCREMENT_MB : | I OPER_TYPE : | I⊞ STATUS |
|---------------|---------------------|---------------------|--------------------|-------------------|---------------|-----------|
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Figure 9. tabla t07

Figure 10. tabla t07

E. C5. Resultado del validador

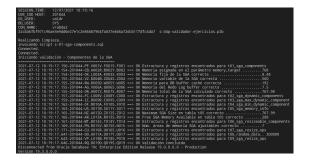


Figure 11. resultado validador

III. CONCLUSIONES

En este ejercicio se revisaron las estructuras de memoria dentro de las areas de SGA, fue interesante ver cuales son las que se pueden consultar usando diccionario de datos, el unico detalle es que no se pudo apreciar la reasignación de memoria.