# Apartado 4

SECCIÓN 1

## a)

CONSULTA 1

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| NombreC |
| Client D |

PLAN\_TABLE\_OUTPUT

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SQL\_ID 2mxktw141pr06, child number 0

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select /\*+ GATHER\_PLAN\_STATISTICS \*/ NombreC from cliente where DNI

in (select DNI from moroso where NombreC = 'Client D')

Plan hash value: 222018829

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Operation | Name | Starts | E-Rows | A-Rows | A-Time | Buffers |
| 0 | SELECT STATEMENT |  | 1 |  | 1 | OO:OO:OO-01 | 5 |
| 1 | NESTED LOOPS |  | 1 |  | 1 | OO:OO:OO-01 | 5 |
| 2 | NESTED LOOPS |  | 1 | 1 | 1 | OO:OO:OO-01 | 4 |
| \*3 | TABLE ACCES FULL | MOROSO | 1 | 1 | 1 | OO:OO:OO-01 | 3 |
| \*4 | INDEX UNIQUE SCAN | SYS\_C009880 | 1 | 1 | 1 | OO:OO:OO-01 | 1 |
| 5 | TABLE ACCESS BY INDEX ROWID | CLIENTE | 1 | 1 | 1 | OO:OO:OO-01 | 1 |

Predicate Information (identified by operation id):

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3 - filter("NOMBREC"='Client D')

4 - access("DNI"="DNI")

Note

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* this is an adaptive plan

CONSULTA 2

|  |
| --- |
| NOMBREC |
| Client B |
| Client A |

PLAN\_TABLE\_OUTPUT

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SQL\_ID bz5t5wr1151pv, child number 0

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select /\*+ GATHER\_PLAN\_STATISTICS \*/ cl.NombreC from cliente cl,

moroso mo where cl.DNI = mo.DNI and mo.DNI < '00000006'

Plan hash value: 905703204

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Operation | Name | Starts | E-Rows | A-Rows | A-Time | Buffers |
| 0 | SELECT STATEMENT |  | 1 |  | 2 | OO:OO:OO-01 | 5 |
| 1 | NESTED LOOPS |  | 1 | 3 | 2 | OO:OO:OO-01 | 5 |
| \*2 | TABLE ACCES FULL | CLIENTE | 1 | 5 | 5 | OO:OO:OO-01 | 3 |
| \*3 | INDEX UNIQUE SCAN | SYS\_C009882 | 5 | 1 | 2 | OO:OO:OO-01 | 2 |

Predicate Information (identified by operation id):

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2 - filter("CL"."DNI"<'00000006')

3 - access("CL"."DNI"="MO"."DNI")

filter("MO"."DNI"<'00000006')

23 filas seleccionadas

TOTAL – COMPARATIVA ENTRE CONSULTAS 1 Y 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Consulta | Operations | E-Rows | A-Rows | Buffers |
| CONSULTA 1 | 6 | 4 | 6 | 19 |
| CONSULTA 2 | 4 | 8 | 11 | 15 |

## b)

SELECT /\*+ GATHER\_PLAN\_STATISTICS \*/

DO.owner,

DO.object\_name, DO.object\_type,

lo.session\_id,

lo.oracle\_username

FROM dba\_objects DO, v$locked\_object lo

WHERE DO.object\_id = lo.object\_id;

SELECT plan\_table\_output

FROM table(DBMS\_XPLAN.DISPLAY\_CURSOR (FORMAT=>'ALLSTATS LAST'));

select \*

from all\_tables

where table\_name ='PELISHIST' and owner='HECTOR';

OWNER TABLA OBJECT\_TYPE SESSION\_ID ORACLE\_USERNAME

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SYSTEM DICCION TABLE 253 SYSTEM

PLAN\_TABLE\_OUTPUT

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SQL\_ID dv16cjnnvqjdr, child number 0

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SELECT /\*+ GATHER\_PLAN\_STATISTICS \*/ DO.owner, DO.object\_name,

DO.object\_type, lo.session\_id, lo.oracle\_username FROM

dba\_objects DO, v$locked\_object lo WHERE DO.object\_id = lo.object\_id

Plan hash value: 3258151906

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Operation | Name | Starts | E-Rows | A-Rows | A-Time | Buffers | 0Mem | 1Mem | Used-Mem |
| 0 | SELECT STATEMENT |  | 1 |  | 1 | OO:OO:OO-16 | 3037 |  |  |  |
| \*1 | HASH JOIN |  | 1 | 1 | 1 | OO:OO:OO-16 | 3037 | 1393K | 1393K | 372K |
| \*2 | HASH JOIN |  | 1 | 1 | 1 | OO:OO:OO-01 | 1 | 1519K | 1519K | 686K |
| \*3 | HASH JOIN |  | 1 | 1 | 1 | OO:OO:OO-01 | 1 |  |  |  |
| \*4 | FIXED TABLE FULL | X$KTCXB | 1 | 517 | 517 | OO:OO:OO-01 | 1 |  |  |  |
| 5 | FIXED TABLE FULL | X$KTADM | 1 | 2112 | 2112 | OO:OO:OO-01 | 0 |  |  |  |
| 6 | FIXED TABLE FULL | X$KSUSE | 1 | 472 | 472 | OO:OO:OO-01 | 0 |  |  |  |
| 7 | VIEW | DBA\_OBJECTS | 1 | 90464 | 90852 | OO:OO:OO-33 | 3036 |  |  |  |
| 8 | UNION-ALL |  | 1 |  | 90852 | OO:OO:OO-33 | 3036 |  |  |  |
| \*9 | TABLE ACCES BY INDEX ROWID | SUM$ | 0 | 1 | 0 | OO:OO:OO-01 | 0 |  |  |  |
| \*10 | INDEX UNIQUE SCAN | I\_SUM$\_1 | 0 | 1 | 0 | OO:OO:OO-01 | 0 |  |  |  |
| \*11 | FILTER |  | 1 |  | 90851 | OO:OO:OO-27 | 3033 |  |  |  |
| \*12 | HASH HOIN |  | 1 | 90783 | 90851 | OO:OO:OO-21 | 1422 | 1393K | 1393K | 155K |
| 13 | TABLE ACCESS FULL | USER$ | 1 | 121 | 121 | OO:OO:OO-01 | 9 |  |  |  |
| \*14 | HASH JOIN |  | 1 | 90783 | 90851 | OO:OO:OO-08 | 1413 | 1557K | 1557K | 1270K |
| 15 | INDEX FULL SCAN | I\_USER2 | 1 | 121 | 121 | OO:OO:OO-01 | 1 |  |  |  |
| \*16 | TABLE ACCESS FULL | OBJ$ | 1 | 90783 | 90851 | OO:OO:OO-03 | 1412 |  |  |  |
| \*17 | TABLE ACCESS FULL | USER\_EDITIONING$ | 537 | 1 | 1 | OO:OO:OO-01 | 1611 |  |  |  |
| 18 | NESTED LOOPS SEMI |  | 0 | 1 | 0 | OO:OO:OO-01 | 0 |  |  |  |
| \*19 | INDEX SKIP SCAN | I\_USER2 | 0 | 1 | 0 | OO:OO:OO-01 | 0 |  |  |  |
| \*20 | INDEX RANGE SCAN | I\_OBJ4 | 0 | 1 | 0 | OO:OO:OO-01 | O |  |  |  |
| \*21 | TABLE ACCES GULL | USER\_EDITIONING$ | 0 | 1 | 0 | OO:OO:OO-01 | 0 |  |  |  |
| 22 | NESTED LOOPS |  | 1 | 1 | 1 | OO:OO:OO-01 | 3 |  |  |  |
| 23 | INDEX FULL SCAN | I\_LINK1 | 1 | 1 | 1 | OO:OO:OO-01 | 1 |  |  |  |
| 24 | TABLE ACCES CLUSTER | USER$ | 1 | 1 | 1 | OO:OO:OO-01 | 2 |  |  |  |
| \*25 | INDEX UNIQUE SCAN | I\_USER$ | 1 | 1 | 1 | OO:OO:OO-01 | 1 |  |  |  |

Predicate Information (identified by operation id):

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1 - access("DO"."OBJECT\_ID"="L"."KTADMTAB")

2 - access("X"."KTCXBSES"="S"."ADDR")

3 - access("X"."KTCXBXBA"="L"."KSSOBOWN")

4 - filter("X"."INST\_ID"=USERENV('INSTANCE'))

9 - filter(BITAND("S"."XPFLAGS",8388608)=8388608)

10 - access("S"."OBJ#"=:B1)

11 - filter((( IS NULL AND "O"."TYPE#"<>88) OR BITAND("O"."FLAGS",1048576)=1048576 OR BITAND("U"."SPARE1",16)=0 OR

(((SYS\_CONTEXT('userenv','current\_edition\_name')='ORA$BASE' AND "U"."TYPE#"<>2) OR ("U"."TYPE#"=2 AND

"U"."SPARE2"=TO\_NUMBER(SYS\_CONTEXT('userenv','current\_edition\_id'))) OR IS NOT NULL) AND IS NOT NULL)))

12 - access("O"."SPARE3"="U"."USER#")

14 - access("O"."OWNER#"="U"."USER#")

16 - filter(("O"."NAME"<>'\_NEXT\_OBJECT' AND "O"."NAME"<>'\_default\_auditing\_options\_' AND "O"."TYPE#"<>10 AND "O"."LINKNAME"

IS NULL AND BITAND("O"."FLAGS",128)=0))

17 - filter(("TYPE#"=:B1 AND "UE"."USER#"=:B2))

19 - access("U2"."TYPE#"=2 AND "U2"."SPARE2"=TO\_NUMBER(SYS\_CONTEXT('userenv','current\_edition\_id')))

filter(("U2"."TYPE#"=2 AND "U2"."SPARE2"=TO\_NUMBER(SYS\_CONTEXT('userenv','current\_edition\_id'))))

20 - access("O2"."DATAOBJ#"=:B1 AND "O2"."TYPE#"=88 AND "O2"."OWNER#"="U2"."USER#")

21 - filter(("UE"."TYPE#"=:B1 AND "UE"."USER#"=:B2))

25 - access("L"."OWNER#"="U"."USER#")

Note

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- this is an adaptive plan

66 filas seleccionadas

no se ha seleccionado ninguna fila

OPERACIONES CON E-ROWS Y A-ROWS CASI IGUALES:

1. FIXED TABLE FULL – comprende toda la tabla por tanto sabe exactamente cuantos registros utilizará.
2. VIEW –
3. TABLE ACCESS FULL - comprende toda la tabla por tanto sabe exactamente cuantos registros utilizará.
4. INDEX FULL SCAN - comprende toda la tabla por tanto sabe exactamente cuantos índices utilizará.

OPERACIONES QUE CONSUMEN MUCHA MEMORIA:

1. HASH JOIN – las tablas en memoria son las operaciones que más memoria ocupan.

SECCIÓN 2

## 1.a) desc user\_indexes

Nombre Nulo Tipo

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INDEX\_NAME NOT NULL VARCHAR2(128)

INDEX\_TYPE VARCHAR2(27)

TABLE\_OWNER NOT NULL VARCHAR2(128)

TABLE\_NAME NOT NULL VARCHAR2(128)

TABLE\_TYPE VARCHAR2(11)

UNIQUENESS VARCHAR2(9)

COMPRESSION VARCHAR2(13)

PREFIX\_LENGTH NUMBER

TABLESPACE\_NAME VARCHAR2(30)

INI\_TRANS NUMBER

MAX\_TRANS NUMBER

INITIAL\_EXTENT NUMBER

NEXT\_EXTENT NUMBER

MIN\_EXTENTS NUMBER

MAX\_EXTENTS NUMBER

PCT\_INCREASE NUMBER

PCT\_THRESHOLD NUMBER

INCLUDE\_COLUMN NUMBER

FREELISTS NUMBER

FREELIST\_GROUPS NUMBER

PCT\_FREE NUMBER

LOGGING VARCHAR2(3)

BLEVEL NUMBER

LEAF\_BLOCKS NUMBER

DISTINCT\_KEYS NUMBER

AVG\_LEAF\_BLOCKS\_PER\_KEY NUMBER

AVG\_DATA\_BLOCKS\_PER\_KEY NUMBER

CLUSTERING\_FACTOR NUMBER

STATUS VARCHAR2(8)

NUM\_ROWS NUMBER

SAMPLE\_SIZE NUMBER

LAST\_ANALYZED DATE

DEGREE VARCHAR2(40)

INSTANCES VARCHAR2(40)

PARTITIONED VARCHAR2(3)

TEMPORARY VARCHAR2(1)

GENERATED VARCHAR2(1)

SECONDARY VARCHAR2(1)

BUFFER\_POOL VARCHAR2(7)

FLASH\_CACHE VARCHAR2(7)

CELL\_FLASH\_CACHE VARCHAR2(7)

USER\_STATS VARCHAR2(3)

DURATION VARCHAR2(15)

PCT\_DIRECT\_ACCESS NUMBER

ITYP\_OWNER VARCHAR2(128)

ITYP\_NAME VARCHAR2(128)

PARAMETERS VARCHAR2(1000)

GLOBAL\_STATS VARCHAR2(3)

DOMIDX\_STATUS VARCHAR2(12)

DOMIDX\_OPSTATUS VARCHAR2(6)

FUNCIDX\_STATUS VARCHAR2(8)

JOIN\_INDEX VARCHAR2(3)

IOT\_REDUNDANT\_PKEY\_ELIM VARCHAR2(3)

DROPPED VARCHAR2(3)

VISIBILITY VARCHAR2(9)

DOMIDX\_MANAGEMENT VARCHAR2(14)

SEGMENT\_CREATED VARCHAR2(3)

ORPHANED\_ENTRIES VARCHAR2(3)

INDEXING VARCHAR2(7)

Descripción de los campos

Nombre: El nombre asociado al índice del usuario.

Nulo: Si el campo puede contener un valor nulo.

Tipo: El tipo de dato del índice.