autotrace ansi full outer join : Introduction « Table Joins « Oracle PL/SQL Tutorial

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7.1.8.autotrace ansi full outer join

```
SQL>
SQL>
SQL> create table myTable as
  2  select  'myTable' as C1
  3   ,OBJECT_NAME
  4   ,SUBOBJECT_NAME
  5   ,OBJECT_ID
  6   ,DATA_OBJECT_ID
  7   ,OBJECT_TYPE
  8   ,CREATED
  9   ,LAST_DDL_TIME
 10   ,TIMESTAMP
 11   ,STATUS
 12   ,TEMPORARY
 13   ,GENERATED
 14   ,SECONDARY
 15  from dba_objects;

Table created.

SQL>
SQL> create table myTable2 as
  2  select  'myTable2' as C1
  3   ,OBJECT_NAME   || 'myTable2' as object_name
  4   ,SUBOBJECT_NAME
  5   ,OBJECT_ID
  6   ,DATA_OBJECT_ID
  7   ,OBJECT_TYPE
  8   ,CREATED
  9   ,LAST_DDL_TIME
 10   ,TIMESTAMP
 11   ,STATUS
 12   ,TEMPORARY
 13   ,GENERATED
 14   ,SECONDARY
 15  from dba_objects
 16  where rownum <= 10000;

Table created.

SQL>
SQL> create index myTable_object_id on myTable (object_id);

Index created.

SQL>
SQL> create index myTable2_object_id on myTable2 (object_id);

Index created.

SQL>
SQL> analyze table myTable compute statistics;

Table analyzed.

SQL>
SQL> analyze table myTable2 compute statistics;

Table analyzed.

SQL>
SQL> set autotrace TRACEONLY
SQL> set timing on
SQL> select *
  2  from myTable a, myTable2 b
  3  where a.object_id = b.object_id(+)
  4  union
  5  select *
  6  from myTable a, myTable2 b
  7  where a.object_id(+) = b.object_id;

13158 rows selected.

Elapsed: 00:00:00.62

Execution Plan
----------------------------------------------------------
```

```
Plan hash value: 4186416997

---------------------------------------------------------------------------------------------
| Id  | Operation                     | Name                | Rows  | Bytes |TempSpc| Cost  |
---------------------------------------------------------------------------------------------
|   0 | SELECT STATEMENT              |                     | 23158 |  4296K|       | 47039 |
|   1 |  SORT UNIQUE                  |                     | 23158 |  4296K|    10M| 47039 |
|   2 |   UNION-ALL                   |                     |       |       |       |       |
|   3 |    NESTED LOOPS OUTER         |                     | 13158 |  2441K|       | 26343 |
|   4 |     TABLE ACCESS FULL         | MYTABLE             | 13158 |  1169K|       |    27 |
|   5 |     TABLE ACCESS BY INDEX ROWID| MYTABLE2           |     1 |    99 |       |     2 |
|*  6 |      INDEX RANGE SCAN         | MYTABLE2_OBJECT_ID  |     1 |       |       |     1 |
|   7 |    NESTED LOOPS OUTER         |                     | 10000 |  1855K|       | 20022 |
|   8 |     TABLE ACCESS FULL         | MYTABLE2            | 10000 |   966K|       |    22 |
|   9 |     TABLE ACCESS BY INDEX ROWID| MYTABLE            |     1 |    91 |       |     2 |
|* 10 |      INDEX RANGE SCAN         | MYTABLE_OBJECT_ID   |     1 |       |       |     1 |
---------------------------------------------------------------------------------------------

Predicate Information (identified by operation id):
---------------------------------------------------

   6 - access("A"."OBJECT_ID"="B"."OBJECT_ID"(+))
  10 - access("A"."OBJECT_ID"(+)="B"."OBJECT_ID")

Note
-----
   - cpu costing is off (consider enabling it)


Statistics
----------------------------------------------------------
          1  recursive calls
          0  db block gets
      43520  consistent gets
          0  physical reads
          0  redo size
    1301014  bytes sent via SQL*Net to client
      10027  bytes received via SQL*Net from client
        879  SQL*Net roundtrips to/from client
          1  sorts (memory)
          0  sorts (disk)
      13158  rows processed

SQL>
SQL>
SQL> select *
  2  from myTable a full outer join myTable2 b
  3  using (object_id);

13158 rows selected.

Elapsed: 00:00:00.52

Execution Plan
----------------------------------------------------------
Plan hash value: 3236823177

-------------------------------------------------------------------------------------
| Id  | Operation                     | Name                | Rows  | Bytes | Cost  |
-------------------------------------------------------------------------------------
|   0 | SELECT STATEMENT              |                     | 13658 |  4401K| 26365 |
|   1 |  VIEW                         |                     | 13658 |  4401K| 26365 |
|   2 |   UNION-ALL                   |                     |       |       |       |
|   3 |    NESTED LOOPS OUTER         |                     | 13158 |  2441K| 26343 |
|   4 |     TABLE ACCESS FULL         | MYTABLE             | 13158 |  1169K|    27 |
|   5 |     TABLE ACCESS BY INDEX ROWID| MYTABLE2           |     1 |    99 |     2 |
|*  6 |      INDEX RANGE SCAN         | MYTABLE2_OBJECT_ID  |     1 |       |     1 |
|*  7 |    FILTER                     |                     |       |       |       |
|   8 |     TABLE ACCESS FULL         | MYTABLE2            |   500 | 49500 |    22 |
|*  9 |     INDEX RANGE SCAN          | MYTABLE_OBJECT_ID   |     1 |    13 |     1 |
-------------------------------------------------------------------------------------

Predicate Information (identified by operation id):
---------------------------------------------------

   6 - access("A"."OBJECT_ID"="B"."OBJECT_ID"(+))
   7 - filter( NOT EXISTS (SELECT /*+ UNNEST */ 0 FROM "MYTABLE" "A" WHERE
              "A"."OBJECT_ID"=:B1))
   9 - access("A"."OBJECT_ID"=:B1)

Note
-----
   - cpu costing is off (consider enabling it)


Statistics
----------------------------------------------------------
          1  recursive calls
          0  db block gets
      45912  consistent gets
          0  physical reads
          0  redo size
     956084  bytes sent via SQL*Net to client
      10027  bytes received via SQL*Net from client
        879  SQL*Net roundtrips to/from client
          0  sorts (memory)
          0  sorts (disk)
      13158  rows processed

SQL>
SQL> set timing off
SQL> set autotrace off
SQL>
SQL>
SQL> drop table myTable;

Table dropped.

SQL>
SQL> drop table myTable2;

Table dropped.
```

7.1.Introduction

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