

```
SQL>
SQL> explain plan for
2 select
3   count(t2.attr2)
4 from
5   t1
6   , t2
7 where
8 /*-----*/
9   trunc(t1.attr1) = 1
10  and trunc(t1.attr2) = 1
11 /*-----*/
12  and t1.fk = t2.id
13 ;
```

Explained.

```
SQL>
SQL> select * from table(dbms_xplan.display);
```

PLAN_TABLE_OUTPUT

Plan hash value: 2900488714

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1	29	4999 (1)	00:01:00
1	SORT AGGREGATE		1	29		
2	NESTED LOOPS					
3	NESTED LOOPS		100	2900	4999 (1)	00:01:00
* 4	TABLE ACCESS FULL	T1	100	1600	4799 (1)	00:00:58
* 5	INDEX UNIQUE SCAN	T2_IDX	1		1 (0)	00:00:01
6	TABLE ACCESS BY INDEX ROWID	T2	1	13	2 (0)	00:00:01

Predicate Information (identified by operation id):

- 4 - filter(TRUNC("T1"."ATTR1")=1 AND TRUNC("T1"."ATTR2")=1)
- 5 - access("T1"."FK"="T2"."ID")

19 rows selected.

```
SQL>
SQL> drop table t2;
```

Table dropped.

19 rows selected.

```
SQL>
SQL> drop table t2;
```

Table dropped.

```
SQL>
SQL> purge table t2;
```

Table purged.

```
SQL>
SQL> create table t2
  2 as
  3 select
  4     fk as id
  5     , ceil(rownum / 10) as attr1
  6     , ceil(rownum / 10) as attr2
  7     , rpad('x', 100) as filler
  8 from
  9     (select rownum as rn, t1.* from t1)
 10 order by
 11     rn
 12 ;
```

Table created.

```
SQL>
SQL> exec dbms_stats.gather_table_stats(null, 't2', method_opt => 'for all columns size 1')
```

PL/SQL procedure successfully completed.

```
SQL>
SQL> create unique index t2_idx on t2 (id);
```

Index created.

```
SQL>
SQL> set echo on timing on time on
21:26:24 SQL>
21:26:24 SQL> alter session set statistics_level = all;
```

Session altered.

Elapsed: 00:00:00.00

```
21:26:24 SQL>
21:26:24 SQL> explain plan for
21:26:24 2 select
```

```
21:26:24 SQL>  
21:26:24 SQL> alter session set statistics_level = all;
```

Session altered.

Elapsed: 00:00:00.00

```
21:26:24 SQL>  
21:26:24 SQL> explain plan for  
21:26:24 2 select  
21:26:24 3     count(t2.attr2)  
21:26:24 4 from  
21:26:24 5     t1  
21:26:24 6     , t2  
21:26:24 7 where  
21:26:24 8 /*-----*/  
21:26:24 9     trunc(t1.attr1) = 1  
21:26:24 10 and  trunc(t1.attr2) = 1  
21:26:24 11 /*-----*/  
21:26:24 12 and  t1.fk = t2.id  
21:26:24 13 ;
```

Explained.

Elapsed: 00:00:00.00

```
21:26:24 SQL>  
21:26:24 SQL> select * from table(dbms_xplan.display);
```

PLAN_TABLE_OUTPUT

Plan hash value: 2900488714

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* 5	INDEX UNIQUE SCAN	T2_IDX	1		1 (0)	00:00:01
6	TABLE ACCESS BY INDEX ROWID	T2	1	13	2 (0)	00:00:01

Predicate Information (identified by operation id):

- 4 - filter(TRUNC("T1"."ATTR1")=1 AND TRUNC("T1"."ATTR2")=1)
- 5 - access("T1"."FK"="T2"."ID")

```

21:26:24 SQL>
21:26:24 SQL> select
21:26:24 2      count(t2.attr2)
21:26:24 3      from
21:26:24 4          t1
21:26:24 5          , t2
21:26:24 6      where
21:26:24 7      /*-----*/
21:26:24 8          trunc(t1.attr1) = 1
21:26:24 9      and      trunc(t1.attr2) = 1
21:26:24 10     /*-----*/
21:26:24 11     and      t1.fk = t2.id
21:26:24 12 ;
    
```

COUNT(T2.ATTR2)

900000

Elapsed: 00:00:14.93

```

21:26:39 SQL>
21:26:39 SQL> @xplan_extended_display_cursor
21:26:39 SQL> set echo off verify off termout off
SQL_ID 353msax56jvvp, child number 0
    
```

```

select      count(t2.attr2) from      t1      , t2 where
/*-----*/      trunc(t1.attr1) = 1 and
trunc(t1.attr2) = 1 /*-----*/ and      t1.fk = t2.id
    
```

Plan hash value: 2900488714

Id	Pid	Ord	Operation	Name	Starts	E-Rows	A-Rows	A-Time	Buffers	Reads	A-Time Self	Bufs Self	Reads Self	A-Ti S-Grp
0		7	SELECT STATEMENT		1		1	00:00:14.92	2717K	36598	00:00:00.00	0	0	
1	0	6	SORT AGGREGATE		1	1	1	00:00:14.92	2717K	36598	00:00:00.10	0	0	
2	1	5	NESTED LOOPS		1		900K	00:00:14.82	2717K	36598	00:00:00.40	0	0	
3	2	3	NESTED LOOPS		1	100	900K	00:00:06.94	1817K	21252	00:00:00.39	0	0	
* 4	3	1	TABLE ACCESS FULL	T1	1	100	900K	00:00:00.82	17576	17575	00:00:00.82	17576	17575	@
* 5	3	2	INDEX UNIQUE SCAN	T2_IDX	900K	1	900K	00:00:05.73	1800K	3677	00:00:05.73	1800K	3677	@@@@@
6	2	4	TABLE ACCESS BY INDEX ROWID	T2	900K	1	900K	00:00:07.49	900K	15346	00:00:07.49	900K	15346	@@@@@

Predicate Information (identified by operation id):

- 4 - filter((TRUNC("T1"."ATTR1")=1 AND TRUNC("T1"."ATTR2")=1))
- 5 - access("T1"."FK"="T2"."ID")