```
*** Create another table loaded with a whole bunch of unique row values
SQL> CREATE TABLE case_search_2 as SELECT rownum id, 'PINK FLOYD'|| rownum name FROM dual CONNECT BY level
<= 100000;
Table created.
*** Insert one special, easy to identify unique row \dots
SQL> INSERT INTO case search 2 VALUES (100001, 'THE WALL');
1 row created.
SOL> COMMIT;
Commit complete.
*** Create a normal, binary index on this new table
SQL> CREATE INDEX case_search_2_name_i ON case_search_2(name);
Index created.
*** Collect statistics on the table
SQL> exec dbms_stats.gather_table_stats(ownname=>'BOWIE', tabname=> 'CASE_SEARCH_2', cascade=> true, estimate_percent=>null, method_opt=> 'FOR ALL COLUMNS SIZE 1');
PL/SQL procedure successfully completed.
*** Now set both NLS parameters required for Linguistic Indexes
SQL> ALTER SESSION SET NLS_SORT='GENERIC_M_CI';
Session altered.
SQL> ALTER SESSION SET NLS COMP='LINGUISTIC';
Session altered.
*** Let's see what happens when we just want to select this one row \dots
SQL> SELECT * FROM case_search_2 WHERE name = 'THE WALL';
       TD NAME
   100001 THE WALL
Execution Plan
Plan hash value: 1727594812
| Id | Operation | Name
                                          | Rows | Bytes | Cost (%CPU)| Time
                                          | 1 | 20 | 86 (6) | 00:00:02 |
2 | 1 | 20 | 86 (6) | 00:00:02 |
   0 | SELECT STATEMENT |
|* 1 | TABLE ACCESS FULL| CASE SEARCH 2 |
                                                 1 |
Statistics
        1 recursive calls
          0 db block gets
        365 consistent gets
          0 physical reads
```

- redo size
- 470 bytes sent via SQL\*Net to client
- 396 bytes received via SQL\*Net from client
  - 2 SQL\*Net roundtrips to/from client 0 sorts (memory)

  - 0 sorts (disk) 1 rows processed

- \*\*\* We note that a FTS is performed even though there's an index on the name column and we just want the
- \*\*\* Unfortunately, the existing index is a standard binary index and so is of no use and is ignored by the CBO with the NLS parameters set.

\*\*\* Let's perform a join between a table with an appropriate Linguistic Index (as created in the previous demo) with a table that only has a Binary Index

SQL> SELECT \* FROM case search cs1, case search 2 cs2 WHERE cs1.name = 'ZIGGY' AND cs2.name = 'THE WALL';

ID	NAME	ID	NAME		
100001	Ziggy	100001	THE WALL		
100002	ZIGGY	100001	THE WALL		
100003	ZiGgY	100001	THE WALL		

## Execution Plan

Plan hash value: 2400034535

Id   Operation	Name		Rows		Bytes	Cost	(%CPU)	Time	
0   SELECT STATEMENT   1   MERGE JOIN CARTESIAN  * 2   TABLE ACCESS FULL   3   BUFFER SORT   4   TABLE ACCESS BY INDEX ROWID  * 5   INDEX RANGE SCAN	CASE_SEARCH_2  CASE_SEARCH  CASE_SEARCH_LING_NAME_I		1 1 1 1 1 1	       	43   43   20   23   23	89 89 86 3 3	(6)   (6)   (0)   (0)	00:00:02 00:00:02 00:00:02 00:00:01 00:00:01	       

## Statistics

- \_\_\_\_\_
  - 0 recursive calls
    - 0 db block gets
  - 369 consistent gets 0 physical reads
  - redo size 650 bytes sent via SQL\*Net to client
  - 396 bytes received via SQL\*Net from client
  - 2 SQL\*Net roundtrips to/from client
  - 1 sorts (memory)
  - 0 sorts (disk)
  - 3 rows processed

\*\*\* The Linguistic index on the CASE SEARCH table is used however, the binary index is again ignored by the CBO and a FTS on the CASE\_SEARCH $\_2$  table is performed.

\*\*\* All binary indexes are of no use with nls\_comp set to 'linguistic' and nls\_sort not set to 'binary' ...