*** In this example, the CBO can't consider the index as the ALBUM_ID column does not have a NOT NULL constraint as so could potentially contain NULL values. The index therefore might not reference these rows.

```
SQL> SELECT * from big_dwh_table ORDER BY album_id;

1000000 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 1027792380
-------------------------------------------------------------------------------------------------
| Id  | Operation          | Name          | Rows  | Bytes |TempSpc| Cost (%CPU)| Time     |
-------------------------------------------------------------------------------------------------
|   0 | SELECT STATEMENT   |               |  1000K|    28M|       |  9293   (1)| 00:01:52 |
|   1 |  SORT ORDER BY     |               |  1000K|    28M|    91M|  9293   (1)| 00:01:52 |
|   2 |   TABLE ACCESS FULL| BIG_DWH_TABLE |  1000K|    28M|       |  1104   (2)| 00:00:14 |
-------------------------------------------------------------------------------------------------
```

*** By re-writing the query to ignore NULL values, the index can now be considered and indeed has been selected to retrieve all rows from the table thus eliminating the need for the sort operation

```
SQL> SELECT * from big_dwh_table WHERE album_id IS NOT NULL ORDER BY album_id;

1000000 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 2432356315

-------------------------------------------------------------------------------------------------
| Id  | Operation                    | Name               | Rows  | Bytes |  Cost(%CPU)| Time     |
-------------------------------------------------------------------------------------------------
|   0 | SELECT STATEMENT             |                    |  1000K|    28M|  7076   (1)| 00:01:25 |
|   1 |  TABLE ACCESS BY INDEX ROWID| BIG_DWH_TABLE      |  1000K|    28M|  7076   (1)| 00:01:25 |
|*  2 |   INDEX FULL SCAN            | BIG_DWH_ALBUM_ID_I |  1000K|       |  2106   (1)| 00:00:26 |
-------------------------------------------------------------------------------------------------
```