

```
SQL> SET FEEDBACK ON
SQL> --i)
SQL> EXPLAIN PLAN FOR SELECT O_ORDERSTATUS, O_ORDERDATE, O_TOTALPRICE FROM ORDERS
ORDER BY O_ORDERDATE;
```

Explained.

```
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 36248429

-----  
-----  
| Id | Operation | Name | Rows | Bytes | TempSpc | Cost (%CPU) | Time

PLAN\_TABLE\_OUTPUT

-----  
| 0 | SELECT STATEMENT | | 450K | 7031K | | 4342 (1) | 00:00  
:01 |  
| 1 | SORT ORDER BY | | 450K | 7031K | 12M | 4342 (1) | 00:00  
:01 |  
| 2 | TABLE ACCESS FULL | ORDERS | 450K | 7031K | | 1949 (1) | 00:00  
:01
-----

PLAN\_TABLE\_OUTPUT

-----  
9 rows selected.

```
SQL>
SQL> --Create index
SQL> CREATE INDEX IDX1 ON ORDERS(O_ORDERDATE, O_TOTALPRICE, O_ORDERSTATUS);
```

Index created.



----

PLAN\_TABLE\_OUTPUT

01	0	SELECT STATEMENT		1		344	(1)	00:00:
	1	SORT AGGREGATE		1				
01	2	INDEX FAST FULL SCAN	PART_PEKEY	60000		32	(0)	00:00:
	3	SORT AGGREGATE		1	12			

PLAN\_TABLE\_OUTPUT

01	4	VIEW	VW_DAG_0	25	300	310	(1)	00:00:
01	5	SORT GROUP BY		25	275	310	(1)	00:00:
01	6	TABLE ACCESS FULL	PART	60000	644K	308	(1)	00:00:
	7	FAST DUAL		1		2	(0)	00:00:

PLAN\_TABLE\_OUTPUT

01								

----

14 rows selected.

SQL>

SQL> CREATE INDEX IDX2 ON PART(P\_BRAND);

Index created.

SQL>

SQL> EXPLAIN PLAN FOR SELECT (SELECT COUNT(P\_BRAND) FROM PART) TOTALBRAND, (SELECT COUNT(DISTINCT P\_BRAND)FROM PART) DISTTOTALBRAND FROM DUAL;

Explained.

SQL>

SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 1950043705

-----  
-----  
| Id | Operation | Name | Rows | Bytes | Cost (%CPU)| Time |

PLAN\_TABLE\_OUTPUT

-----  
| 0 | SELECT STATEMENT | | 1 | | 89 (4)| 00:00:01 |

| 1 | SORT AGGREGATE | | 1 | | | |

| 2 | INDEX FAST FULL SCAN | PART\_PEKEY | 60000 | | 32 (0)| 00:00:01 |

| 3 | SORT AGGREGATE | | 1 | 12 | | |

PLAN\_TABLE\_OUTPUT

-----  
| 4 | VIEW | VW\_DAG\_0 | 25 | 300 | 54 (4)| 00:00:01 |

| 5 | SORT GROUP BY | | 25 | 275 | 54 (4)| 00:00:01 |

| 6 | INDEX FAST FULL SCAN | IDX2 | 60000 | 644K | 52 (0)| 00:00:01 |

| 7 | FAST DUAL | | 1 | | 2 (0)| 00:00:01 |

PLAN\_TABLE\_OUTPUT

-----  
0:01 |

-----  
-----  
  
14 rows selected.

SQL>  
SQL> DROP INDEX IDX2;

Index dropped.

SQL>  
SQL> --iii)  
SQL> EXPLAIN PLAN FOR SELECT O\_CLERK, COUNT(\*) FROM ORDERS GROUP BY O\_CLERK;

Explained.

SQL>  
SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 2183589723

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1000	16000	1961 (1)	00:00:01
1	HASH GROUP BY		1000	16000	1961 (1)	00:00:01
2	TABLE ACCESS FULL	ORDERS	450K	7031K	1950 (1)	00:00:01

-----  
9 rows selected.

SQL>  
SQL> CREATE INDEX IDX3 ON ORDERS(O\_CLERK);

Index created.

SQL>  
SQL> EXPLAIN PLAN FOR SELECT O\_CLERK, COUNT(\*) FROM ORDERS GROUP BY O\_CLERK;

Explained.

SQL>  
SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

Plan hash value: 2377188265

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1000	16000	475 (3)	00:00:01
1	HASH GROUP BY		1000	16000	475 (3)	00:00:01
2	INDEX FAST FULL SCAN	IDX3	450K	7031K	464 (1)	00:00:01

9 rows selected.

SQL>

SQL> DROP INDEX IDX3;

Index dropped.

SQL>

SQL> --iv)

SQL> EXPLAIN PLAN FOR

2 SELECT O\_CLERK, O\_ORDERDATE

3 FROM ORDERS

4 ORDER BY O\_CLERK, O\_ORDERDATE;

Explained.

SQL>

SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

Plan hash value: 36248429

Id	Operation	Name	Rows	Bytes	TempSpc	Cost (%CPU)	Time
0	SELECT STATEMENT		450K	10M		5107 (1)	00:00:01
1	SORT ORDER BY		450K	10M	13M	5107 (1)	00:00:01

PLAN\_TABLE\_OUTPUT

0	SELECT STATEMENT		450K	10M		5107 (1)	00:00:01
1	SORT ORDER BY		450K	10M	13M	5107 (1)	00:00:01

2	TABLE ACCESS FULL	ORDERS	450K	10M	1950	(1)	00:00:01
---	-------------------	--------	------	-----	------	-----	----------

-----  
 -----

PLAN\_TABLE\_OUTPUT  
 -----

9 rows selected.

SQL>  
 SQL> CREATE INDEX IDX4 ON ORDERS(O\_CLERK, O\_ORDERDATE);

Index created.

SQL>  
 SQL> EXPLAIN PLAN FOR  
 2 SELECT O\_CLERK, O\_ORDERDATE  
 3 FROM ORDERS  
 4 ORDER BY O\_CLERK, O\_ORDERDATE;

Explained.

SQL>  
 SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT  
 -----

Plan hash value: 2215783780

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		450K	10M	2201 (1)	00:00:01
1	INDEX FULL SCAN	IDX4	450K	10M	2201 (1)	00:00:01

8 rows selected.

SQL>  
 SQL> DROP INDEX IDX4;

Index dropped.

SQL>  
 SQL> --v)  
 SQL> EXPLAIN PLAN FOR

```

2  SELECT O_CLERK, O_ORDERDATE
3  FROM ORDERS
4  WHERE O_CLERK = 'CLERK#000000446'
5  AND O_ORDERSTATUS = 'F';

```

Explained.

```

SQL> --select query returns no values
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);

```

PLAN\_TABLE\_OUTPUT

-----

Plan hash value: 1275100350

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		219	5694	1953 (1)	00:00:01
* 1	TABLE ACCESS FULL	ORDERS	219	5694	1953 (1)	00:00:01

Predicate Information (identified by operation id):

-----

PLAN\_TABLE\_OUTPUT

-----

1 - filter("O\_CLERK"='CLERK#000000446' AND "O\_ORDERSTATUS"='F')

13 rows selected.

```

SQL>
SQL> --create index on o_orderstatus
SQL> CREATE INDEX IDX5 ON ORDERS(O_CLERK, O_ORDERSTATUS);

```

Index created.

```

SQL>
SQL> EXPLAIN PLAN FOR
  2  SELECT O_CLERK, O_ORDERDATE FROM ORDERS WHERE O_CLERK = 'CLERK#000000446' AND
O_ORDERSTATUS = 'F';

```

Explained.

```

SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);

```

PLAN\_TABLE\_OUTPUT

-----



Plan hash value: 4057061640

```
-----
-----
| Id | Operation | Name | Rows | Bytes | Cost (%CP
U)| Time |
```

PLAN\_TABLE\_OUTPUT

```
-----
| 0 | SELECT STATEMENT | | 219 | 5694 | 219 (
0)| 00:00:01 |
| 1 | TABLE ACCESS BY INDEX ROWID BATCHED | ORDERS | 219 | 5694 | 219 (
0)| 00:00:01 |
|* 2 | INDEX RANGE SCAN | IDX5 | 219 | | 3 (
0)| 00:00:01 |
```

PLAN\_TABLE\_OUTPUT

Predicate Information (identified by operation id):

```
-----
2 - access("O_CLERK"='CLERK#000000446' AND "O_ORDERSTATUS"='F')
```

14 rows selected.

SQL>

SQL> DROP INDEX IDX5;

Index dropped.

SQL>

SQL> --vi)

SQL> EXPLAIN PLAN FOR

2 SELECT COUNT(\*)

3 FROM ORDERS;

Explained.

```
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----

Plan hash value: 3211320914

Id	Operation	Name	Rows	Cost (%CPU)	Time
0	SELECT STATEMENT		1	239 (1)	00:00:01
1	SORT AGGREGATE		1		
2	INDEX FAST FULL SCAN	ORDERS_PKEY	450K	239 (1)	00:00:01

9 rows selected.

```
SQL>
SQL> --NO INDEX
SQL> --CREATE INDEX IDX6A ON ORDERS(O_ORDERDATE);
SQL> --CREATE INDEX IDX6B ON ORDERS(O_CLERK);
SQL>
SQL> EXPLAIN PLAN FOR
  2 SELECT COUNT(*)
  3 FROM ORDERS;
```

Explained.

```
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----

Plan hash value: 3211320914

Id	Operation	Name	Rows	Cost (%CPU)	Time
0	SELECT STATEMENT		1	239 (1)	00:00:01
1	SORT AGGREGATE		1		
2	INDEX FAST FULL SCAN	ORDERS_PKEY	450K	239 (1)	00:00:01

9 rows selected.

```
SQL>
SQL> --DROP INDEX IDX6A;
SQL> --DROP INDEX IDX6B;
SQL>
SQL> --vii)
```

```
SQL> EXPLAIN PLAN FOR
  2  SELECT O_CLERK, O_ORDERDATE, L_RECEIPTDATE
  3  FROM ORDERS JOIN LINEITEM ON O_ORDERKEY = L_ORDERKEY
  4  WHERE O_CLERK = 'Clerk#00000046'AND O_ORDERSTATUS = 'F';
```

Explained.

```
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 523862552

-----  
-----  
| Id | Operation | Name | Rows | Bytes | Cost (%CP  
U)| Time |

PLAN\_TABLE\_OUTPUT

-----  
0	SELECT STATEMENT		863	39698	2610 (1)	00:00:01
1	NESTED LOOPS		863	39698	2610 (1)	00:00:01
2	NESTED LOOPS		876	39698	2610 (1)	00:00:01
\* 3	TABLE ACCESS FULL	ORDERS	219	7008	1953 (1)	00:00:01

PLAN\_TABLE\_OUTPUT

-----  
|\* 4 | INDEX RANGE SCAN | LINEITEM\_PKEY | 4 | | 2 (0)| 00:00:01 |  
| 5 | TABLE ACCESS BY INDEX ROWID | LINEITEM | 4 | 56 | 3 (0)| 00:00:01 |  
-----  
-----

PLAN\_TABLE\_OUTPUT

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

3 - filter("ORDERS"."O\_CLERK"='Clerk#00000046' AND "ORDERS"."O\_ORDERSTATUS"='F')

4 - access("O\_ORDERKEY"="L\_ORDERKEY")

Note

-----

- this is an adaptive plan

22 rows selected.

SQL> [Bitmap join index, bitmap index \(low cardinality\), function index kkkk](#)

SQL> --CREATE BITMAP INDEX

SQL> --CREATE INDEX IDX7A ON ORDERS(O\_CLERK, O\_ORDERSTATUS);

SQL> CREATE BITMAP INDEX IDX7B ON LINEITEM (ORDERS.O\_CLERK) FROM ORDERS, LINEITEM  
WHERE ORDERS.O\_ORDERKEY = LINEITEM.L\_ORDERKEY;

Index created.

SQL>

SQL> EXPLAIN PLAN FOR

2 SELECT O\_CLERK, O\_ORDERDATE, L\_RECEIPTDATE

3 FROM ORDERS JOIN LINEITEM ON O\_ORDERKEY = L\_ORDERKEY

4 WHERE O\_CLERK = 'Clerk#00000046'AND O\_ORDERSTATUS = 'F';

Explained.

SQL>

SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 3529090336  
-----

-----  
-----

Id	Operation	Name	Rows	Bytes	Cost (
%CPU)	Time				

-----  
-----

PLAN\_TABLE\_OUTPUT

	0		SELECT STATEMENT				1		46		2349
	(1)		00:00:01								
*	1		HASH JOIN				1		46		2349
	(1)		00:00:01								
*	2		TABLE ACCESS FULL		ORDERS		219		7008		1953
	(1)		00:00:01								
	3		TABLE ACCESS BY INDEX ROWID BATCHED		LINEITEM		1800		25200		397
	(0)		00:00:01								

PLAN\_TABLE\_OUTPUT

	4		BITMAP CONVERSION TO ROWIDS								
*	5		BITMAP INDEX SINGLE VALUE		IDX7B						

PLAN\_TABLE\_OUTPUT

Predicate Information (identified by operation id):

- 1 - access("O\_ORDERKEY"="L\_ORDERKEY")
- 2 - filter("ORDERS"."O\_CLERK"='Clerk#00000046' AND "ORDERS"."O\_ORDERSTATUS"='F')
- 5 - access("LINEITEM"."SYS\_NC00017\$"='Clerk#00000046')

Note

PLAN\_TABLE\_OUTPUT

- this is an adaptive plan

23 rows selected.

SQL>

```
SQL> --DROP INDEX IDX7A;
SQL> DROP INDEX IDX7B;
```

Index dropped.

```
SQL>
SQL> --viii)
SQL> EXPLAIN PLAN FOR
  2 SELECT O_CLERK, O_ORDERDATE, O_TOTALPRICE
  3 FROM ORDERS
  4 WHERE O_CLERK = 'Clerk#00000046'
  5 UNION
  6 SELECT O_CLERK, O_ORDERDATE, O_TOTALPRICE
  7 FROM ORDERS
  8 WHERE O_TOTALPRICE > 400000;
```

Explained.

```
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----

Plan hash value: 4042372449

-----									
Id		Operation	Name	Rows	Bytes	Cost (%CPU)		Time	
-----									
0		SELECT STATEMENT		1928	57840	3904 (1)		00:00:01	
1		SORT UNIQUE		1928	57840	3904 (1)		00:00:01	
2		UNION-ALL							
*		TABLE ACCESS FULL	ORDERS	450	13500	1953 (1)		00:00:01	
*		TABLE ACCESS FULL	ORDERS	1478	44340	1949 (1)		00:00:01	
-----									

PLAN\_TABLE\_OUTPUT

-----

Predicate Information (identified by operation id):

-----

3 - filter("O\_CLERK"='Clerk#00000046')

4 - filter("O\_TOTALPRICE">400000)

17 rows selected.

```
SQL>
SQL> CREATE INDEX IDX8 ON ORDERS(O_CLERK, O_TOTALPRICE);
```

Index created.

```

SQL>
SQL> EXPLAIN PLAN FOR
  2 SELECT O_CLERK, O_ORDERDATE, O_TOTALPRICE
  3 FROM ORDERS
  4 WHERE O_CLERK = 'Clerk#00000046'
  5 UNION
  6 SELECT O_CLERK, O_ORDERDATE, O_TOTALPRICE
  7 FROM ORDERS
  8 WHERE O_TOTALPRICE > 400000;

```

Explained.

```

SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);

```

PLAN\_TABLE\_OUTPUT

-----

Plan hash value: 665216000

-----

Id	Operation	Name	Rows	Bytes	Cost (%)
CPU	Time				

-----

PLAN\_TABLE\_OUTPUT

0	SELECT STATEMENT		1928	57840	2407
(1)	00:00:01				
1	SORT UNIQUE		1928	57840	2407
(1)	00:00:01				
2	UNION-ALL				
3	TABLE ACCESS BY INDEX ROWID BATCHED	ORDERS	450	13500	455
(0)	00:00:01				

PLAN\_TABLE\_OUTPUT

* 4	INDEX RANGE SCAN	IDX8	450		5
(0)	00:00:01				

* 5	TABLE ACCESS FULL	ORDERS	1478	44340	1949
(1)	00:00:01				

PLAN\_TABLE\_OUTPUT

Predicate Information (identified by operation id):

4 - access("O\_CLERK"='Clerk#00000046')  
 5 - filter("O\_TOTALPRICE">400000)

18 rows selected.

SQL>

SQL> DROP INDEX IDX8;

Index dropped.

SQL>

SQL> --ix)

SQL> EXPLAIN PLAN FOR SELECT C\_NAME, O\_TOTALPRICE  
 2 FROM CUSTOMER JOIN ORDERS ON C\_CUSTKEY = O\_CUSTKEY  
 3 WHERE C\_MKTSEGMENT = 'AUTOMOBILE' AND C\_ACCTBAL < 500;

Explained.

SQL>

SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

Plan hash value: 484670660

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		18036	915K	2258 (1)	00:00:01
* 1	HASH JOIN		18036	915K	2258 (1)	00:00:01
* 2	TABLE ACCESS FULL	CUSTOMER	1209	49569	308 (1)	00:00:01
* 3	TABLE ACCESS FULL	ORDERS	450K	4833K	1949 (1)	00:00:01

PLAN\_TABLE\_OUTPUT



Predicate Information (identified by operation id):

- 
- 1 - access("C\_CUSTKEY"="O\_CUSTKEY")
  - 2 - filter("CUSTOMER"."C\_ACCTBAL"<500 AND  
"CUSTOMER"."C\_MKTSEGMENT"='AUTOMOBILE')
  - 3 - filter("O\_CUSTKEY">=0)

18 rows selected.

SQL>

SQL> CREATE BITMAP INDEX IDX9A ON ORDERS (CUSTOMER.C\_MKTSEGMENT,  
CUSTOMER.C\_ACCTBAL) FROM ORDERS, CUSTOMER WHERE ORDERS.O\_CUSTKEY =  
CUSTOMER.C\_CUSTKEY;

Index created.

SQL> CREATE INDEX IDX9B ON CUSTOMER(CASE C\_MKTSEGMENT WHEN 'AUTOMOBILE' THEN  
'AUTOMOBILE' END);

Index created.

SQL>

SQL> EXPLAIN PLAN FOR SELECT C\_NAME, O\_TOTALPRICE  
2 FROM CUSTOMER JOIN ORDERS ON C\_CUSTKEY = O\_CUSTKEY  
3 WHERE C\_MKTSEGMENT = 'AUTOMOBILE' AND C\_ACCTBAL < 500;

Explained.

SQL>

SQL> SELECT \* FROM TABLE(DBMS\_XPLAN.DISPLAY);

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 3446467944

-----  
-----  

Id	Operation	Name	Rows	Bytes	Cost (
%CPU)	Time				

  
-----  
-----

PLAN\_TABLE\_OUTPUT

-----  

0	SELECT STATEMENT		484	25168	1761
(1)	00:00:01				

  
-----

* 1	HASH JOIN		484	25168	1761
(1)	00:00:01				
* 2	TABLE ACCESS FULL	CUSTOMER	1209	49569	308
(1)	00:00:01				
* 3	TABLE ACCESS BY INDEX ROWID BATCHED	ORDERS	12089	129K	1454
(1)	00:00:01				

PLAN\_TABLE\_OUTPUT

4	BITMAP CONVERSION TO ROWIDS				
* 5	BITMAP INDEX RANGE SCAN	IDX9A			

PLAN\_TABLE\_OUTPUT

Predicate Information (identified by operation id):

```

1 - access("C_CUSTKEY"="O_CUSTKEY")
2 - filter("CUSTOMER"."C_ACCTBAL"<500 AND "CUSTOMER"."C_MKTSEGMENT"='AUTOMOBILE')
3 - filter("O_CUSTKEY">=0)
5 - access("ORDERS"."SYS_NC00010$"='AUTOMOBILE' AND "ORDERS"."SYS_NC00011$"<500)

```

PLAN\_TABLE\_OUTPUT

```

filter("ORDERS"."SYS_NC00010$"='AUTOMOBILE' AND "ORDERS"."SYS_NC00011$"<500)

```

21 rows selected.

SQL>

SQL> DROP INDEX IDX9A;

Index dropped.

```
SQL> DROP INDEX IDX9B;
```

Index dropped.

```
SQL>
```

```
SQL> --x)
```

```
SQL> EXPLAIN PLAN FOR
  2  SELECT P_PARTKEY, P_RETAILPRICE
  3  FROM PART
  4  WHERE P_RETAILPRICE < 1000;
```

Explained.

```
SQL>
```

```
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----  
Plan hash value: 673417232

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		5614	56140	308 (1)	00:00:01
* 1	TABLE ACCESS FULL	PART	5614	56140	308 (1)	00:00:01

Predicate Information (identified by operation id):

-----  
PLAN\_TABLE\_OUTPUT

1 - filter("P\_RETAILPRICE"<1000)

13 rows selected.

```
SQL>
```

```
SQL> CREATE INDEX IDX10 ON PART(P_RETAILPRICE);
```

Index created.

```
SQL>
```

```
SQL> EXPLAIN PLAN FOR
  2  SELECT P_PARTKEY, P_RETAILPRICE
  3  FROM PART
  4  WHERE P_RETAILPRICE < 1000;
```

Explained.

```
SQL>
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

PLAN\_TABLE\_OUTPUT

-----

Plan hash value: 281158565

-----

Id	Operation	Name	Rows	Bytes	Cost (%CPU)
----	-----------	------	------	-------	-------------

-----

PLAN\_TABLE\_OUTPUT

0	SELECT STATEMENT		5614	56140	128 (1)
00:00:01					
* 1	VIEW	index\$_join\$_001	5614	56140	128 (1)
00:00:01					
* 2	HASH JOIN				
* 3	INDEX RANGE SCAN	IDX10	5614	56140	14 (0)
00:00:01					

PLAN\_TABLE\_OUTPUT

4	INDEX FAST FULL SCAN	PART_PEKEY	5614	56140	142 (1)
00:00:01					

-----

Predicate Information (identified by operation id):

-----

PLAN\_TABLE\_OUTPUT

-----

1 - filter("P\_RETAILPRICE"<1000)

2 - access(ROWID=ROWID)

```
3 - access("P_RETAILPRICE"<1000)
```

```
18 rows selected.
```

```
SQL>
```

```
SQL> DROP INDEX IDX10;
```

```
Index dropped.
```

```
SQL>
```

```
SQL> SPPOOL OFF
```