

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT Empno, Ename, Deptno, Sal, Job, HireDate  
2 FROM Emp;

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7839	KING	10	5000	PRESIDENT	17-NOV-81
7698	BLAKE	30	2850	MANAGER	01-MAY-81
7782	CLARK	10	2450	MANAGER	09-JUN-81
7566	JONES	20	2975	MANAGER	02-APR-81
7654	MARTIN	30	1250	SALESMAN	28-SEP-81
7499	ALLEN	30	1600	SALESMAN	20-FEB-81
7844	TURNER	30	1500	SALESMAN	08-SEP-81
7900	JAMES	30	950	CLERK	03-DEC-81
7521	WARD	30	1250	SALESMAN	22-FEB-81
7902	FORD	20	3000	ANALYST	03-DEC-81
7369	SMITH	20	800	CLERK	17-DEC-80
7788	SCOTT	20	3000	ANALYST	09-DEC-82
7876	ADAMS	20	1100	CLERK	12-JAN-83
7934	MILLER	10	1300	CLERK	23-JAN-82

14 rows selected.

SQL> CREATE INDEX EmpEmpnoIDX

2 ON Emp(Empno);

ON Emp(Empno)

\*

ERROR at line 2:

ORA-01408: such column list already indexed

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2 FROM Emp
3* WHERE Empno = 7654
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7654	MARTIN	30	1250	SALESMAN	28-SEP-81

SQL> SET AUTOTRACE ON EXPLAIN

SQL> SELECT Empno, Ename, Deptno, Sal, Job, HireDate  
2 FROM Emp;

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```
-----
      EMPNO  ENAME          DEPTNO          SAL  JOB          HIREDATE
-----
      7839  KING            10            5000  PRESIDENT  17-NOV-81
      7698  BLAKE            30            2850  MANAGER    01-MAY-81
      7782  CLARK            10            2450  MANAGER    09-JUN-81
      7566  JONES            20            2975  MANAGER    02-APR-81
      7654  MARTIN           30            1250  SALESMAN   28-SEP-81
      7499  ALLEN            30            1600  SALESMAN   20-FEB-81
      7844  TURNER           30            1500  SALESMAN   08-SEP-81
      7900  JAMES            30             950  CLERK      03-DEC-81
      7521  WARD             30            1250  SALESMAN   22-FEB-81
      7902  FORD             20            3000  ANALYST    03-DEC-81
      7369  SMITH            20             800  CLERK      17-DEC-80
      7788  SCOTT            20            3000  ANALYST    09-DEC-82
      7876  ADAMS            20            1100  CLERK      12-JAN-83
      7934  MILLER           10            1300  CLERK      23-JAN-82
-----
```

14 rows selected.

Execution Plan

-----  
Plan hash value: 3956160932

```
-----
-
| Id  | Operation                | Name | Rows  | Bytes | Cost (%CPU) | Time
|-----|-----|-----|-----|-----|-----|-----|
-
|  0  | SELECT STATEMENT         |      |  14   |  854  |      3   (0) | 00:00:01
|-----|-----|-----|-----|-----|-----|
|  1  | TABLE ACCESS FULL| EMP  |  14   |  854  |      3   (0) | 00:00:01
|-----|-----|-----|-----|-----|-----|
-
-

```

Note

-----  
- dynamic sampling used for this statement (level=2)

```
SQL> SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2    FROM Emp
3    WHERE Empno = 7654;
```

```
      EMPNO  ENAME          DEPTNO          SAL  JOB          HIREDATE
-----
```

-----  
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```
-----
              7654 MARTIN                      30              1250 SALESMAN    28-SEP-81
-----
```

## Execution Plan

Plan hash value: 2650221029

```
-----
| Id  | Operation                               | Name                | Rows  | Bytes |
Cost (%CPU)| Time                |                     |       |       |
-----
|  0  | SELECT STATEMENT                         |                     |      1 |    61 |
2    (0) | 00:00:01 |                     |       |       |
|  1  | TABLE ACCESS BY INDEX ROWID            | EMP                  |      1 |    61 |
2    (0) | 00:00:01 |                     |       |       |
|*  2  | INDEX UNIQUE SCAN                       | EMP_PRIMARY_KEY     |      1 |       |
1    (0) | 00:00:01 |                     |       |       |
-----
```

## Predicate Information (identified by operation id):

```
-----
      2 - access("EMPNO"=7654)
-----
```

SQL> ED

Wrote file afiedt.buf

```
      1  SELECT Empno, Ename, Deptno, Sal, Job, HireDate
      2  FROM Emp
      3* WHERE Empno != 7654
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7839	KING	10	5000	PRESIDENT	17-NOV-81
7698	BLAKE	30	2850	MANAGER	01-MAY-81
7782	CLARK	10	2450	MANAGER	09-JUN-81
7566	JONES	20	2975	MANAGER	02-APR-81
7499	ALLEN	30	1600	SALESMAN	20-FEB-81
7844	TURNER	30	1500	SALESMAN	08-SEP-81
7900	JAMES	30	950	CLERK	03-DEC-81
7521	WARD	30	1250	SALESMAN	22-FEB-81
7902	FORD	20	3000	ANALYST	03-DEC-81

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```
7369 SMITH          20          800 CLERK      17-DEC-80
7788 SCOTT          20         3000 ANALYST     09-DEC-82
7876 ADAMS          20         1100 CLERK      12-JAN-83
7934 MILLER         10         1300 CLERK      23-JAN-82
```

13 rows selected.

## Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		13	793	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMP	13	793	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("EMPNO"<>7654)

## Note

- dynamic sampling used for this statement (level=2)

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2  FROM Emp
3* WHERE Empno = 7654
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7654	MARTIN	30	1250	SALESMAN	28-SEP-81

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Execution Plan

Plan hash value: 2650221029

Id	Operation	Name	Rows	Bytes
0	SELECT STATEMENT		1	61
1	TABLE ACCESS BY INDEX ROWID	EMP	1	61
2	INDEX UNIQUE SCAN	EMP_PRIMARY_KEY	1	

Predicate Information (identified by operation id):

2 - access("EMPNO">7654)

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2  FROM Emp
3* WHERE Empno > 7654
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7839	KING	10	5000	PRESIDENT	17-NOV-81
7698	BLAKE	30	2850	MANAGER	01-MAY-81
7782	CLARK	10	2450	MANAGER	09-JUN-81
7844	TURNER	30	1500	SALESMAN	08-SEP-81
7900	JAMES	30	950	CLERK	03-DEC-81
7902	FORD	20	3000	ANALYST	03-DEC-81
7788	SCOTT	20	3000	ANALYST	09-DEC-82
7876	ADAMS	20	1100	CLERK	12-JAN-83
7934	MILLER	10	1300	CLERK	23-JAN-82

9 rows selected.

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Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		9	549	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMP	9	549	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("EMPNO">7654)

Note

- dynamic sampling used for this statement (level=2)

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2  FROM Emp
3* WHERE Ename = 'JONES'
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7566	JONES	20	2975	MANAGER	02-APR-81

Execution Plan

Plan hash value: 3956160932

-

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Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1	61	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMP	1	61	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("ENAME"='JONES' AND UPPER("ENAME")='JONES')

Note

- dynamic sampling used for this statement (level=2)

SQL> CREATE INDEX EmpEnameIDX  
2 ON Emp(Ename);

Index created.

SQL> SELECT Empno, Ename, Deptno, Sal, Job, HireDate  
2 FROM Emp  
3 WHERE Ename = 'JONES';

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7566	JONES	20	2975	MANAGER	02-APR-81

Execution Plan

Plan hash value: 777873844

Id	Operation	Name	Rows	Bytes	Cost	Time
0	SELECT STATEMENT		1	61	2 (0)	00:00:01

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```
.....
| 1 | TABLE ACCESS BY INDEX ROWID| EMP          | 1 | 61 | 2
(0)| 00:00:01 |
|* 2 | INDEX RANGE SCAN              | EMPENAMEIDX | 1 |    | 1
(0)| 00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
-----
2 - access("ENAME"='JONES')
    filter(UPPER("ENAME")='JONES')
```

Note

```
-----
- dynamic sampling used for this statement (level=2)
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2  FROM Emp
3* WHERE Ename > 'JONES'
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7839	KING	10	5000	PRESIDENT	17-NOV-81
7654	MARTIN	30	1250	SALESMAN	28-SEP-81
7934	MILLER	10	1300	CLERK	23-JAN-82
7788	SCOTT	20	3000	ANALYST	09-DEC-82
7369	SMITH	20	800	CLERK	17-DEC-80
7844	TURNER	30	1500	SALESMAN	08-SEP-81
7521	WARD	30	1250	SALESMAN	22-FEB-81

7 rows selected.

Execution Plan

Plan hash value: 777873844

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

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```

-----
| 0 | SELECT STATEMENT | | 7 | 427 | 2
(0) | 00:00:01 |
| 1 | TABLE ACCESS BY INDEX ROWID | EMP | 7 | 427 | 2
(0) | 00:00:01 |
|* 2 | INDEX RANGE SCAN | EMPENAMEIDX | 7 | | 1
(0) | 00:00:01 |
-----

```

Predicate Information (identified by operation id):

```

2 - access("ENAME">'JONES')
    filter(UPPER("ENAME")>'JONES')

```

Note

```

-----
- dynamic sampling used for this statement (level=2)

```

SQL> cl scr

```

SQL> CREATE INDEX EmpEmpnoEname
2 ON Emp(Empno, Ename);

```

Index created.

```

SQL> SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2 FROM Emp
3 WHERE Empno = 7566;

```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7566	JONES	20	2975	MANAGER	02-APR-81

Execution Plan

Plan hash value: 3546942290

```

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

```

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```

| 0 | SELECT STATEMENT | | 4 | 244 |
2 (0) | 00:00:01 |
| 1 | TABLE ACCESS BY INDEX ROWID | EMP | 4 | 244 |
2 (0) | 00:00:01 |
|* 2 | INDEX RANGE SCAN | EMPEMPNOENAME | 2 | |
1 (0) | 00:00:01 |

```

Predicate Information (identified by operation id):

2 - access("EMPNO"=7566)

```

SQL> SELECT Empno, Ename, Deptno, Sal, Job, HireDate
2 FROM Emp
3 WHERE Ename = 'JONES';

```

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7566	JONES	20	2975	MANAGER	02-APR-81

Execution Plan

Plan hash value: 777873844

```

| Id | Operation | Name | Rows | Bytes | Cost
(%CPU) | Time |
| 0 | SELECT STATEMENT | | 1 | 61 | 2
(0) | 00:00:01 |
| 1 | TABLE ACCESS BY INDEX ROWID | EMP | 1 | 61 | 2
(0) | 00:00:01 |
|* 2 | INDEX RANGE SCAN | EMPENAMEIDX | 1 | | 1
(0) | 00:00:01 |

```

Predicate Information (identified by operation id):

2 - access("ENAME"='JONES')  
filter(UPPER("ENAME")='JONES')

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Note

-----

- dynamic sampling used for this statement (level=2)

SQL> cl scr

SQL> DROP INDEX EmpEmpnoEname;

Index dropped.

SQL> DROP INDEX EmpEnameIDX;

Index dropped.

SQL> cl scr

SQL> CREATE UNIQUE INDEX

2 EmpEnameIDXUNQ

3 ON Emp(Ename);

Index created.

SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)

2 VALUES(7935, 'SMITH', 20, 2000);

INSERT INTO Emp(Empno, Ename, Deptno, Sal)

\*

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.EMPENAMEIDXUNQ) violated

SQL> DROP INDEX EmpEnameIDXUNQ;

Index dropped.

SQL> cl scr

SQL> CREATE UNIQUE INDEX EmpDeptnoUNQIDX

2 ON Emp(Deptno);

ON Emp(Deptno)

\*

ERROR at line 2:

ORA-01452: cannot CREATE UNIQUE INDEX; duplicate keys found

SQL> cl scr

---

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```
SQL> SELECT ROWID, E1.*
      2 FROM Emp E1;
```

ROWID	EMPNO	ENAME	JOB	MGR	HIREDATE
SAL	DEPTNO	COMM			
AAASX9AAEAAAAE8AAA	7839	KING	PRESIDENT		17-NOV-81
5000	10				
AAASX9AAEAAAAE8AAB	7698	BLAKE	MANAGER	7839	01-MAY-81
2850	30				
AAASX9AAEAAAAE8AAC	7782	CLARK	MANAGER	7839	09-JUN-81
2450	10				
AAASX9AAEAAAAE8AAD	7566	JONES	MANAGER	7839	02-APR-81
2975	20				
AAASX9AAEAAAAE8AAE	7654	MARTIN	SALESMAN	7698	28-SEP-81
1250	30	1400			
AAASX9AAEAAAAE8AAF	7499	ALLEN	SALESMAN	7698	20-FEB-81
1600	30	300			
AAASX9AAEAAAAE8AAG	7844	TURNER	SALESMAN	7698	08-SEP-81
1500	30	0			
AAASX9AAEAAAAE8AAH	7900	JAMES	CLERK	7698	03-DEC-81
950	30				
AAASX9AAEAAAAE8AAI	7521	WARD	SALESMAN	7698	22-FEB-81
1250	30	500			
AAASX9AAEAAAAE8AAJ	7902	FORD	ANALYST	7566	03-DEC-81
3000	20				
AAASX9AAEAAAAE8AAK	7369	SMITH	CLERK	7902	17-DEC-80
800	20				
AAASX9AAEAAAAE8AAL	7788	SCOTT	ANALYST	7566	09-DEC-82
3000	20				
AAASX9AAEAAAAE8AAM	7876	ADAMS	CLERK	7788	12-JAN-83
1100	20				
AAASX9AAEAAAAE8AAN	7934	MILLER	CLERK	7782	23-JAN-82
1300	10				

14 rows selected.

Execution Plan

Plan hash value: 3956160932

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

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```
-----  
-----  
| 0 | SELECT STATEMENT | | 14 | 1386 | 3 (0) | 00:00:01  
|  
| 1 | TABLE ACCESS FULL| EMP | 14 | 1386 | 3 (0) | 00:00:01  
|  
-----  
-----
```

Note

-----  
- dynamic sampling used for this statement (level=2)

```
SQL> CREATE BITMAP INDEX EmpEnameBMIDX  
2 ON Emp(Deptno);  
CREATE BITMAP INDEX EmpEnameBMIDX  
*
```

```
ERROR at line 1:  
ORA-00901: invalid CREATE command
```

```
SQL> ED  
Wrote file afiedt.buf
```

```
1 CREATE BITMAP INDEX EmpEnameBMIDX  
2* ON Emp(Deptno)  
SQL> /
```

Index created.

```
SQL> cl scr
```

```
SQL> DROP INDEX EmpDeptnoBMIDX;  
DROP INDEX EmpDeptnoBMIDX  
*  
ERROR at line 1:  
ORA-01418: specified index does not exist
```

```
SQL> DROP INDEX EmpDeptnoBM;  
DROP INDEX EmpDeptnoBM  
*  
ERROR at line 1:  
ORA-01418: specified index does not exist
```

```
SQL> SELECT IndexName FROM USER_INDEXES;
```

-----  
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```
SELECT IndexName FROM USER_INDEXES
*
```

ERROR at line 1:

ORA-00904: "INDEXNAME": invalid identifier

```
SQL> CREATE BMAP INDEX EmpEnameBMIDX
2
SQL> DROP INDEX EmpEnameBMIDX;
```

Index dropped.

```
SQL> clear
SQL> cl scr
```

```
SQL> SELECT Ename, Deptno, Sal, Comm, Sal + NVL(Comm, 0) TotSal
2 FROM Emp
3 WHERE Sal + NVL(Comm, 0) >= 1600;
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
BLAKE	30	2850		2850
CLARK	10	2450		2450
JONES	20	2975		2975
MARTIN	30	1250	1400	2650
ALLEN	30	1600	300	1900
WARD	30	1250	500	1750
FORD	20	3000		3000
SCOTT	20	3000		3000

9 rows selected.

Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		9	414	3 (0)	00:00:01

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
.....
|* 1 | TABLE ACCESS FULL| EMP | 9 | 414 | 3 (0) | 00:00:01
|
-----
-
```

Predicate Information (identified by operation id):

1 - filter("SAL"+NVL("COMM",0)>=1600)

Note

- dynamic sampling used for this statement (level=2)

```
SQL> CREATE INDEX EmpTotSalIDX
2 ON Emp(Sal + NVL(Comm, 0));
```

Index created.

```
SQL> SELECT Ename, Deptno, Sal, Comm, Sal + NVL(Comm, 0) TotSal
2 FROM Emp
3 WHERE Sal + NVL(Comm, 0) >= 1600;
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
WARD	30	1250	500	1750
ALLEN	30	1600	300	1900
CLARK	10	2450		2450
MARTIN	30	1250	1400	2650
BLAKE	30	2850		2850
JONES	20	2975		2975
FORD	20	3000		3000
SCOTT	20	3000		3000
KING	10	5000		5000

9 rows selected.

Execution Plan

Plan hash value: 673040625

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

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```

-----
| 0 | SELECT STATEMENT | | 1 | 59 |
2 (0) | 00:00:01 |
| 1 | TABLE ACCESS BY INDEX ROWID| EMP | 1 | 59 |
2 (0) | 00:00:01 |
|* 2 | INDEX RANGE SCAN | EMP_TOTSALIDX | 1 |
1 (0) | 00:00:01 |
-----

```

Predicate Information (identified by operation id):

```

2 - access("SAL"+NVL("COMM",0)>=1600)

```

Note

```

- dynamic sampling used for this statement (level=2)

```

SQL> cl scr

SQL> DESC USER\_INDEXES

```

Name Null?
Type
-----
INDEX_NAME NOT
NULL VARCHAR2(30)
INDEX_TYPE
VARCHAR2(27)
TABLE_OWNER NOT
NULL VARCHAR2(30)
TABLE_NAME NOT
NULL VARCHAR2(30)
TABLE_TYPE
VARCHAR2(11)
UNIQUENESS
VARCHAR2(9)
COMPRESSION
VARCHAR2(8)
PREFIX_LENGTH
NUMBER
TABLESPACE_NAME
VARCHAR2(30)
INI_TRANS
NUMBER

```

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MAX\_TRANS  
NUMBER  
INITIAL\_EXTENT  
NUMBER  
NEXT\_EXTENT  
NUMBER  
MIN\_EXTENTS  
NUMBER  
MAX\_EXTENTS  
NUMBER  
PCT\_INCREASE  
NUMBER  
PCT\_THRESHOLD  
NUMBER  
INCLUDE\_COLUMN  
NUMBER  
FREELISTS  
NUMBER  
FREELIST\_GROUPS  
NUMBER  
PCT\_FREE  
NUMBER  
LOGGING  
VARCHAR2 (3)  
BLEVEL  
NUMBER  
LEAF\_BLOCKS  
NUMBER  
DISTINCT\_KEYS  
NUMBER  
AVG\_LEAF\_BLOCKS\_PER\_KEY  
NUMBER  
AVG\_DATA\_BLOCKS\_PER\_KEY  
NUMBER  
CLUSTERING\_FACTOR  
NUMBER  
STATUS  
VARCHAR2 (8)  
NUM\_ROWS  
NUMBER  
SAMPLE\_SIZE  
NUMBER  
LAST\_ANALYZED  
DATE  
DEGREE  
VARCHAR2 (40)

---

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INSTANCES  
VARCHAR2 (40)  
PARTITIONED  
VARCHAR2 (3)  
TEMPORARY  
VARCHAR2 (1)  
GENERATED  
VARCHAR2 (1)  
SECONDARY  
VARCHAR2 (1)  
BUFFER\_POOL  
VARCHAR2 (7)  
FLASH\_CACHE  
VARCHAR2 (7)  
CELL\_FLASH\_CACHE  
VARCHAR2 (7)  
USER\_STATS  
VARCHAR2 (3)  
DURATION  
VARCHAR2 (15)  
PCT\_DIRECT\_ACCESS  
NUMBER  
ITYP\_OWNER  
VARCHAR2 (30)  
ITYP\_NAME  
VARCHAR2 (30)  
PARAMETERS  
VARCHAR2 (1000)  
GLOBAL\_STATS  
VARCHAR2 (3)  
DOMIDX\_STATUS  
VARCHAR2 (12)  
DOMIDX\_OPSTATUS  
VARCHAR2 (6)  
FUNCIDX\_STATUS  
VARCHAR2 (8)  
JOIN\_INDEX  
VARCHAR2 (3)  
IOT\_REDUNDANT\_PKEY\_ELIM  
VARCHAR2 (3)  
DROPPED  
VARCHAR2 (3)  
VISIBILITY  
VARCHAR2 (9)  
DOMIDX\_MANAGEMENT  
VARCHAR2 (14)

---

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SEGMENT\_CREATED  
VARCHAR2 (3)

SQL> DESC USER\_IND\_COLUMNS

Name	Null?
------	-------

Type

INDEX_NAME	
VARCHAR2 (30)	
TABLE_NAME	
VARCHAR2 (30)	
COLUMN_NAME	
VARCHAR2 (4000)	
COLUMN_POSITION	
NUMBER	
COLUMN_LENGTH	
NUMBER	
CHAR_LENGTH	
NUMBER	
DESCEND	
VARCHAR2 (4)	

SQL> SPPOOL OFF

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