

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
SQL> cl scr
```

```
SQL> SET AUTOTRACE ON EXPLAIN
```

```
SQL> SELECT Empno, Ename, Deptno, Job
2 FROM Emp
3 WHERE Empno = 7900;
```

EMPNO	ENAME	DEPTNO	JOB
7900	JAMES	30	CLERK

Execution Plan

Plan hash value: 2650221029

	Id	Operation	Name	Rows	Bytes
Cost (%CPU)		Time			
0	0	SELECT STATEMENT		1	39
1	(0)	00:00:01			
1	1	TABLE ACCESS BY INDEX ROWID	EMP	1	39
1	(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"=7900)

```
SQL> SELECT Empno, Ename, Deptno, Job
2 FROM Emp
3 WHERE Empno > 7900;
```

EMPNO	ENAME	DEPTNO	JOB
7902	FORD	20	ANALYST
7934	MILLER	10	CLERK

Execution Plan

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Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		2	78	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMP	2	78	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("EMPNO">7900)

Note

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

SQL> ED

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```
1  SELECT Empno, Ename, Deptno, Job
2  FROM Emp
3* WHERE Empno < 7900
SQL> /
```

EMPNO	ENAME	DEPTNO	JOB
7839	KING	10	PRESIDENT
7698	BLAKE	30	MANAGER
7782	CLARK	10	MANAGER
7566	JONES	20	MANAGER
7654	MARTIN	30	SALESMAN
7499	ALLEN	30	SALESMAN
7844	TURNER	30	SALESMAN
7521	WARD	30	SALESMAN
7369	SMITH	20	CLERK
7788	SCOTT	20	ANALYST
7876	ADAMS	20	CLERK

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11 rows selected.

Execution Plan

Plan hash value: 3956160932

	Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
	0	SELECT STATEMENT		11	429	3 (0)	00:00:01
*	1	TABLE ACCESS FULL	EMP	11	429	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("EMPNO"<7900)

Note

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

SQL> ED

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```
1  SELECT Empno, Ename, Deptno, Job
2  FROM Emp
3* WHERE Empno IN(7900, 7839, 7566)
SQL> /
```

EMPNO	ENAME	DEPTNO	JOB
7566	JONES	20	MANAGER
7839	KING	10	PRESIDENT
7900	JAMES	30	CLERK

Execution Plan

Plan hash value: 3320649255

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```
-----
| Id | Operation | Name | Rows | Bytes |
Cost (%CPU)| Time |
-----
| 0 | SELECT STATEMENT | | 3 | 117 |
2 (0) | 00:00:01 |
| 1 | INLIST ITERATOR | | | |
| 2 | TABLE ACCESS BY INDEX ROWID | EMP | 3 | 117 |
2 (0) | 00:00:01 |
|* 3 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 | |
3 (0) | 00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
3 - access("EMPNO"=7566 OR "EMPNO"=7839 OR "EMPNO"=7900)
```

Note

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

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Empno, Ename, Deptno, Job
2 FROM Emp
3* WHERE Empno = 7900 OR Empno = 7839 OR Empno = 7566
SQL> /
```

EMPNO	ENAME	DEPTNO	JOB
7566	JONES	20	MANAGER
7839	KING	10	PRESIDENT
7900	JAMES	30	CLERK

Execution Plan

Plan hash value: 3320649255

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Id	Operation	Name	Rows	Bytes
Cost (%CPU)	Time			
0	SELECT STATEMENT		3	117
2 (0)	00:00:01			
1	INLIST ITERATOR			
2	TABLE ACCESS BY INDEX ROWID	EMP	3	117
2 (0)	00:00:01			
* 3	INDEX UNIQUE SCAN	EMP_PRIMARY_KEY	1	
3 (0)	00:00:01			

Predicate Information (identified by operation id):

3 - access("EMPNO"=7566 OR "EMPNO"=7839 OR "EMPNO"=7900)

Note

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

SQL> cl scr

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

ENAME	DEPTNO	SAL	JOB
JAMES	30	950	CLERK

Execution Plan

Plan hash value: 3956160932

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

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```
-----
| 0 | SELECT STATEMENT |          | 1 | 39 | 3 | (0) | 00:00:01
|* 1 | TABLE ACCESS FULL| EMP      | 1 | 39 | 3 | (0) | 00:00:01
-----
```

Predicate Information (identified by operation id):

1 - filter("ENAME"='JAMES')

Note

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

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

Index created.

```
SQL> SELECT Ename, Deptno, Sal, Job
      2  FROM Emp
      3  WHERE Ename = 'JAMES';
```

ENAME	DEPTNO	SAL	JOB
JAMES	30	950	CLERK

Execution Plan

Plan hash value: 777873844

```
-----
| Id | Operation | Name | Rows | Bytes | Cost
|----|-----|-----|-----|-----|-----
| 0 | SELECT STATEMENT |      | 1 | 39 | 2
| (0) | 00:00:01 |      |      |      |
| 1 | TABLE ACCESS BY INDEX ROWID | EMP | 1 | 39 | 2
| (0) | 00:00:01 |      |      |      |
|* 2 | INDEX RANGE SCAN | EMPENAMEIDX | 1 | | 1
| (0) | 00:00:01 |      |      |      |
-----
```

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Predicate Information (identified by operation id):

2 - access("ENAME"='JAMES')

Note

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

SQL> ED

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```
1  SELECT Ename, Deptno, Sal, Job
2  FROM Emp
3* WHERE Empno = 7900 AND Ename = 'JAMES'
SQL> /
```

ENAME	DEPTNO	SAL	JOB
JAMES	30	950	CLERK

Execution Plan

Plan hash value: 777873844

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		1	52	1
(0)	00:00:01				
* 1	TABLE ACCESS BY INDEX ROWID	EMP	1	52	1
(0)	00:00:01				
* 2	INDEX RANGE SCAN	EMPENAMEIDX	1		1
(0)	00:00:01				

Predicate Information (identified by operation id):

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```
1 - filter("EMPNO"=7900)
2 - access("ENAME"='JAMES')
```

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

```
1  SELECT Ename, Deptno, Sal, Job
2  FROM Emp
3* WHERE Empno = 7900 OR Ename = 'JAMES'
SQL> /
```

ENAME	DEPTNO	SAL	JOB
JAMES	30	950	CLERK

Execution Plan

Plan hash value: 837218515

Id	Operation	Name	Rows
Bytes	Cost (%CPU)	Time	
0	SELECT STATEMENT		1
52 2	(0) 00:00:01		
1	TABLE ACCESS BY INDEX ROWID	EMP	1
52 2	(0) 00:00:01		
2	BITMAP CONVERSION TO ROWIDS		
3	BITMAP OR		
4	BITMAP CONVERSION FROM ROWIDS		
* 5	INDEX RANGE SCAN	EMP_PRIMARY_KEY	
1	(0) 00:00:01		
6	BITMAP CONVERSION FROM ROWIDS		
* 7	INDEX RANGE SCAN	EMPENAMEIDX	
1	(0) 00:00:01		

Predicate Information (identified by operation id):

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```
5 - access("EMPNO"=7900)
7 - access("ENAME"='JAMES')
```

Note

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

SQL> cl scr

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

Index created.

```
SQL> SELECT Ename, Deptno, Sal, Job
2 FROM Emp
3 WHERE Empno = 7900;
```

ENAME	DEPTNO	SAL	JOB
JAMES	30	950	CLERK

Execution Plan

Plan hash value: 171211415

	Id	Operation	Name	Rows	Bytes
	0	SELECT STATEMENT		1	52
1	(0)	00:00:01			
	1	TABLE ACCESS BY INDEX ROWID	EMP	1	52
1	(0)	00:00:01			
*	2	INDEX RANGE SCAN	EMPEMPNOENAMEIDX	1	
1	(0)	00:00:01			

Predicate Information (identified by operation id):

```
2 - access("EMPNO"=7900)
```

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```
SQL> SELECT Ename, Deptno, Sal, Job
2 FROM Emp
3 WHERE Ename = 'JAMES';
```

ENAME	DEPTNO	SAL	JOB
JAMES	30	950	CLERK

Execution Plan

Plan hash value: 777873844

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		1	39	2
(0)	00:00:01				
1	TABLE ACCESS BY INDEX ROWID	EMP	1	39	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"='JAMES')

Note

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

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

Index created.

```
SQL> SELECT Ename, Deptno, Sal, Job
2 FROM Emp
3 WHERE Empno = 7900;
```

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```
-----
ENAME          DEPTNO          SAL JOB
-----
JAMES          30          950 CLERK
-----
```

Execution Plan

Plan hash value: 171211415

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

Predicate Information (identified by operation id):

2 - access("EMPNO"=7900)

```
SQL> SELECT Ename, Deptno, Sal, Job
2 FROM Emp
3 WHERE Ename = 'JAMES';
```

```
-----
ENAME          DEPTNO          SAL JOB
-----
JAMES          30          950 CLERK
-----
```

Execution Plan

Plan hash value: 2787433117

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

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```
-----  
-----  
| 0 | SELECT STATEMENT | | 1 | 39 |  
2 (0) | 00:00:01 |  
| 1 | TABLE ACCESS BY INDEX ROWID | EMP | 1 | 39 |  
2 (0) | 00:00:01 |  
| * 2 | INDEX RANGE SCAN | EMPENAMEEMPNOIDX | 1 | |  
1 (0) | 00:00:01 |  
-----  
-----
```

Predicate Information (identified by operation id):

2 - access("ENAME"='JAMES')

Note

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

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> DROP INDEX EmpEnameIDX;

Index dropped.

SQL> DROP INDEX EmpEnameEmpnoIDX;

Index dropped.

SQL> DROP INDEX EmpEmpnoEnameIDX;

Index dropped.

SQL> cl scr

SQL> CREATE UNIQUE INDEX EmpEnameUNQIDX

2 ON Emp(Ename);

Index created.

SQL> SELECT Empno, Ename, Deptno, Job

2 FROM Emp

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```
3 WHERE Ename = 'JAMES';
```

EMPNO	ENAME	DEPTNO	JOB
7900	JAMES	30	CLERK

Execution Plan

Plan hash value: 3317804857

	Id	Operation	Name	Rows	Bytes
Cost (%CPU)		Time			
0	0	SELECT STATEMENT		1	39
1	(0)	00:00:01			
1	1	TABLE ACCESS BY INDEX ROWID	EMP	1	39
1	(0)	00:00:01			
*	2	INDEX UNIQUE SCAN	EMPENAMEUNQIDX	1	
0	(0)	00:00:01			

Predicate Information (identified by operation id):

2 - access("ENAME"='JAMES')

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Job)
2 VALUES(7935, 'RAKESH', 30, 'CLERK');
```

1 row created.

Execution Plan

	Id	Operation	Name	Rows	Bytes	Cost (%CPU)
Time						

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```
.....
| 0 | INSERT STATEMENT | | 1 | 100 | 1 (0) |
00:00:01 |
| 1 | LOAD TABLE CONVENTIONAL | EMP | | | |
|
```

```
-----

SQL> INSERT INTO Emp(Empno, Ename, Deptno, Job)
  2 VALUES(7936, 'JAMES', 30, 'CLERK');
INSERT INTO Emp(Empno, Ename, Deptno, Job)
*
ERROR at line 1:
ORA-00001: unique constraint (SCOTT.EMPENAMEUNQIDX) violated
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
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> ROLLBACK;
```

Rollback complete.

```
SQL> DROP INDEX EMPENAMEUNQIDX;
```

Index dropped.

```
SQL> cl scr
```

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

Index created.

```
SQL> DROP INDEX EmpDeptnoBMIDX;
```

Index dropped.

```
SQL> SELECT Ename, Deptno, Sal, Comm
```

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```
2 FROM Emp
3 WHERE Sal + NVL(Comm, 0) > 2850;
```

ENAME	DEPTNO	SAL	COMM
KING	10	5000	
JONES	20	2975	
FORD	20	3000	
SCOTT	20	3000	

Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		4	184	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMP	4	184	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("SAL"+NVL("COMM",0)>2850)

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
2 FROM Emp
3 WHERE Sal + NVL(Comm, 0) > 2850;
```

ENAME	DEPTNO	SAL	COMM
-------	--------	-----	------

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```
-----
JONES                20          2975
FORD                 20          3000
SCOTT                20          3000
KING                 10          5000
-----
```

Execution Plan

Plan hash value: 673040625

```
-----
| Id | Operation | Name | Rows | Bytes | Cost |
|----|-----|-----|-----|-----|-----|
| 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)>2850)
-----
```

Note

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

SQL> cl scr

SQL> SET AUTOTRACE OFF EXPLAIN

SQL> cl scr

SQL> DESC USER_INDEXES

```
-----
Name                                         Null?
Type                                         -----
INDEX_NAME                                  NOT
NULL VARCHAR2(30)
-----
```

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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
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

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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)
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)

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```
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)
SEGMENT_CREATED
VARCHAR2(3)
```

```
SQL> COL INDEX_NAME FOR A15
SQL> COL TABLE_NAME FOR A15
SQL> SELECT TABLE_NAME, INDEX_NAME
2 FROM USER_INDEXES
3 WHERE TABLE_NAME = 'EMP';
```

TABLE_NAME	INDEX_NAME
EMP	EMPTOTSALIDX
EMP	EMP_PRIMARY_KEY

```
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
```

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```
CHAR_LENGTH  
NUMBER  
DESCEND  
VARCHAR2 ( 4 )  
  
SQL> SPOOL OFF
```

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