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

SOL> 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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http://yellankisathish.com/

EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE
7839	KING	10	5000	PRESIDENT	17-NOV-81
	BLAKE	30		MANAGER	01-MAY-81
	CLARK	10		MANAGER	09-JUN-81
	JONES	20		MANAGER	02-APR-81
	MARTIN	30		SALESMAN	28-SEP-81
	ALLEN	30		SALESMAN	20-FEB-81
	TURNER	30		SALESMAN	08-SEP-81
	JAMES	30		CLERK	03-DEC-81
	WARD	30		SALESMAN	22-FEB-81
	FORD	20		ANALYST	03-DEC-81
	SMITH	20		CLERK	17-DEC-80
	SCOTT	20			09-DEC-82
	ADAMS	20		CLERK	12-JAN-83
	MILLER	10		CLERK	23-JAN-82
ın hash	value: 395616	0932			
Id   Op	eration	Name   I	Rows   E	Bytes   Cos	st (%CPU)
0   SE:	LECT STATEMEN	T I I	14	854	3 (0)
1   T	ABLE ACCESS F	ULL  EMP	14	854	3 (0)
> SELEC' FROM :	ic sampling u I Empno, Enam Emp Empno = 7654	e, Deptno, Sa			2)
EMPNO	ENAME	DEPTNO	SAL	JOB	HIREDATE

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7654 MARTIN	30	1250	SALESMAN	28-SEP-81	
Execution Plan					
Plan hash value: 26502210	29				2
Id   Operation Cost (%CPU)  Time	 	Name		Rows	Bytes
0   SELECT STATEMENT (0)   00:00:01   1   TABLE ACCESS BY (0)   00:00:01   * 2   INDEX UNIQUE SO	·		RIMARY_KEY	1 1 I I I I I I I	61   61
(0)   00:00:01					
Predicate Information (id		operat	ion id):		
Predicate Information (id		operat	ion id):		
Predicate Information (identification)  2 - access("EMPNO"=765	54)				
Predicate Information (identification)  2 - access("EMPNO"=765  SQL> ED Wrote file afiedt.buf  1 SELECT Empno, Ename, 2 FROM Emp 3* WHERE Empno != 7654	54)	, Job,		HIREDATE	

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Spool File Fol	Oracle Students	s Trained by Wir.Sathi	SILTERIALIKI
7369 SMITH 7788 SCOTT 7876 ADAMS 7934 MILLER	20 20 20 10	1100 CLERK	17-DEC-80 09-DEC-82 12-JAN-83 23-JAN-82
13 rows selected.			
Execution Plan			(22)
Plan hash value: 39561609	932		
-   Id	Name   R	ows   Bytes	Cost (%CPU)   Time
- 0   SELECT STATEMENT	1 1	13   793	3 (0)  00:00:01
  * 1   TABLE ACCESS FUI 	LL  EMP	13   793	3 (0)  00:00:01
- Predicate Information (id	dentified by	operation id):	
1 - filter("EMPNO"<>76	554)		
dynamic sampling use	ed for this	statement (leve	21=2)
SQL> ED Wrote file afiedt.buf			
1 SELECT Empno, Ename, 2 FROM Emp 3* WHERE Empno = 7654 SQL> /	Deptno, Sa	l, Job, HireDat	e
EMPNO ENAME	DEPTNO	SAL JOB	HIREDATE
7654 MARTIN	30	1250 SALESMA	N 28-SEP-81

-----

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Execution Plan

\_\_\_\_\_

Plan hash value: 2650221029

\_\_\_\_\_\_

Id   Operation Cost (%CPU)  Time	Name	Rows   Bytes
0   SELECT STATEMENT 2 (0)   00:00:01	 	1  61
1   TABLE ACCESS BY INDEX 2 (0)   00:00:01	ROWID  EMP	1 1 61
* 2   INDEX UNIQUE SCAN	EMP PRIMARY	Y 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
7020		1.0			17 27077 01
/839	KING	10	5000	PRESIDENT	T/-NOV-8T
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: 395616	50932		
-   Id	Name   Ro		Cost (%CPU)  Time
- 0   SELECT STATEMEN	IT	9   549	3 (0)   00:00:03
* 1   TABLE ACCESS E	'ULL  EMP	9   549	3 (0)   00:00:00
-			
Predicate Information	identified by	operation id):	
1 - filter("EMPNO">7	(654)		
Note		10.	
- dynamic sampling u	used for this s	tatement (leve	1=2)
SQL> cl scr	10/2		
SQL> ED Wrote file afiedt.buf	3/11/		
1 SELECT Empno, Enam 2 FROM Emp 3* WHERE Ename = 'JON SQL> /		, Job, HireDat	е
EMPNO ENAME	DEPTNO	SAL JOB	HIREDATE
7566 JONES	20	2975 MANAGER	02-APR-81
Execution Plan			
Plan hash value: 395616	50932		
_			

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Id   Operation   Name   Rows   Bytes   Cost (%CPU)  Time
_
0   SELECT STATEMENT
Predicate Information (identified by operation id):
1 C'lle (HENAMER L'IONEGL'AND HODED (HENAMER) L'IONEGL)
1 - filter("ENAME"='JONES' AND UPPER("ENAME")='JONES')
Note
dynamic sampling used for this statement (level=2)
dynamic sampling used for this statement (level-2)
SQL> CREATE INDEX EmpEnameIDX 2 ON Emp(Ename);
Index created.
<pre>SQL&gt; SELECT Empno, Ename, Deptno, Sal, Job, HireDate 2  FROM Emp 3  WHERE Ename = 'JONES';</pre>
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)   00:00:01

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3poor r ne r						
1   TABLE ACCESS B (0)   00:00:01    * 2   INDEX RANGE S (0)   00:00:01				1   1	61	2
Predicate Information (	identified by	operat:	ion id):		2	
2 - access("ENAME"=' filter(UPPER("EN					()	
Note				91		
dynamic sampling u	sed for this s	tatemei	nt (level=	2)		
SQL> ED Wrote file afiedt.buf		ed come.				
1 SELECT Empno, Enam 2 FROM Emp 3* WHERE Ename > 'JON SQL> /		, Job,	HireDate			
EMPNO ENAME	DEPTNO	SAL	JOB	HIREDATE		
7839 KING 7654 MARTIN 7934 MILLER 7788 SCOTT 7369 SMITH 7844 TURNER 7521 WARD	10 30 10 20 20 30 30	1250 1300 3000 800 1500	PRESIDENT SALESMAN CLERK ANALYST CLERK SALESMAN SALESMAN	28-SEP-83 23-JAN-83 09-DEC-83 17-DEC-80 08-SEP-83	1 2 2 2 0	
7 rows selected.						
Execution Plan						
Plan hash value: 777873	844					
Id   Operation (%CPU)   Time	I	Name	Ro	ows   By	tes   (	Cost

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.....

0   SELECT STATEMENT	I	1	7	427	2
(0)   00:00:01     1   TABLE ACCESS BY INDEX ROWI	D  EMP	I	7	427	2
(0)   00:00:01    * 2   INDEX RANGE SCAN (0)   00:00:01	EMPENAMEIDX	ζ	7		1
				753	
Predicate Information (identified b	y operation id	d):			
2 - access("ENAME">'JONES') filter(UPPER("ENAME")>'JONES	')		Si		
Note					
dynamic sampling used for this	statement (le	evel=	2)		
SQL> cl scr	10/10				
SQL> CREATE INDEX EmpEmpnoEname 2 ON Emp(Empno, Ename);					
Index created.					
SQL> SELECT Empno, Ename, Deptno, S 2 FROM Emp 3 WHERE Empno = 7566;	al, Job, HireD	)ate			
EMPNO ENAME DEPTNO	SAL JOB		HIREDAT	ľΕ	
7566 JONES 20	2975 MANAG	ER	02-APR-	-81	
Execution Plan					
Plan hash value: 3546942290					
Id   Operation Cost (%CPU)   Time	Name	I	Rows	Bytes	

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			• • • • • • • • • • • • • • • • • • • •			•••••	•••••	•••••
	SELECT STATEMENT	Γ		I	4	24	14	I
	TABLE ACCESS BY	/ INDEX ROWID	EMP	I	4	24	14	l
* 2	INDEX RANGE SO  )  00:00:01	CAN	EMPEMPNOENAM	Ε	2			l
Predic	cate Information (i	dentified by	operation id)	<b>:</b> -			5	
2 -	- access("EMPNO"=75	566)		10	6			
2 E	SELECT Empno, Ename FROM Emp JHERE Ename = 'JONE	-	., Job, HireDa	te	)			
E	EMPNO ENAME	DEPTNO	SAL JOB	HIR	EDATE	_		
	7566 JONES	20	2975 MANAGE	R 02-	APR-81	L		
Execut	cion Plan							
					_			
Plan h	aash value: 7778738	344			_			
Plan h	nash value: 7778738	344			-			
   Id	nash value: 7778738	344	Name			ces	(	 Cost
Id (%CPU)	Operation   Time	3/1/13	Name					
Id (%CPU)     0	Operation   Time     SELECT STATEMENT			1		61	 I	2
Id (%CPU)	Operation   Time	I INDEX ROWID	EMP	1   1	   		 I	
Id (%CPU)	Operation   Time     SELECT STATEMENT   SELECT STATEMENT   O0:00:01     TABLE ACCESS BY	I INDEX ROWID		1   1	   	61	 I	2
Id (%CPU)	Operation Time SELECT STATEMENT O0:00:01   TABLE ACCESS BY 00:00:01   INDEX RANGE SO	I INDEX ROWID	EMP	1   1	   	61	 I	2 2
Id (%CPU)	Operation Time SELECT STATEMENT O0:00:01   TABLE ACCESS BY 00:00:01   INDEX RANGE SO	I	EMP EMPENAMEIDX	1   1   1	   	61	 I	2 2

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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
SOL> cl scr
```

-----

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SQL> SELECT ROWID, 2 FROM Emp E1;	E1.*					
ROWID SAL COMM	EMPNO DEPTNO	ENAME	JOB	MGR	HIREDATE	
AAASX9AAEAAAAE8AAA 5000	7839 10	KING	PRESIDENT		17-NOV-81	
AAASX9AAEAAAAE8AAB 2850	7698 30	BLAKE	MANAGER	7839	01-MAY-81	
AAASX9AAEAAAAE8AAC 2450	7782 10	CLARK	MANAGER		09-JUN-81	
AAASX9AAEAAAAE8AAD 2975	7566 20	JONES	MANAGER		02-APR-81	
AAASX9AAEAAAAE8AAE 1250 1400	30	MARTIN	SALESMAN		28-SEP-81	
AAASX9AAEAAAAE8AAF 1600 300	7499 30	ALLEN	SALESMAN	7698	20-FEB-81	
AAASX9AAEAAAAE8AAG 1500 0	7844 30	TURNER	SALESMAN	7698	08-SEP-81	
AAASX9AAEAAAAE8AAH 950	7900 30	JAMES	CLERK	7698	03-DEC-81	
AAASX9AAEAAAAE8AAI 1250 500	30	WARD	SALESMAN	7698	22-FEB-81	
AAASX9AAEAAAAE8AAJ 3000	20	FORD	ANALYST	7566	03-DEC-81	
AAASX9AAEAAAAE8AAK 800	7369 20	SMITH	CLERK	7902	17-DEC-80	
AAASX9AAEAAAAE8AAL 3000	20	SCOTT	ANALYST		09-DEC-82	
AAASX9AAEAAAAE8AAM 1100	20	ADAMS	CLERK		12-JAN-83	
AAASX9AAEAAAAE8AAN 1300	7934 10	MILLER	CLERK	7782	23-JAN-82	
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 BIMAP INDEX EmpEnameBMIDX
 2 ON Emp(Deptno);
CREATE BIMAP INDEX EmpEnameBMIDX
ERROR at line 1:
ORA-00901: invalid CREATE command
SOL> ED
Wrote file afiedt.buf
 1 CREATE BITMAP INDEX EmpEnameBMIDX
 2* ON Emp(Deptno)
SOL> /
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 BIMAP INDEX EmpEnameBMIDX

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

<sup>9</sup> rows selected.

Execution Plan

\_\_\_\_\_

Plan hash value: 3956160932

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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 1250 30 500 WARD 1750 1600 30 300 ALLEN 1900 2450 10 2450 CLARK 2650 MARTIN 30 1250 1400 30 2850 BLAKE 2850 JONES 20 2975 2975 FORD 20 3000 3000 3000 SCOTT 20 3000 5000 KING 10 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 |
   (0) | 00:00:01 |
                               | EMPTOTSALIDX |
   2 | INDEX RANGE SCAN
  (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
                                                            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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### SkyEss Techno Solutions Pvt. Ltd.

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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> SPOOL OFF

\_\_\_\_\_

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