```
SQL> cl scr

SQL> CREATE INDEX EmpEmpnoIDX
  2  ON Emp(Empno);
ON Emp(Empno)
       *
ERROR at line 2:
ORA-01408: such column list already indexed


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

    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
     7900 JAMES              30 CLERK
     7521 WARD               30 SALESMAN
     7902 FORD               20 ANALYST
     7369 SMITH              20 CLERK
     7788 SCOTT              20 ANALYST
     7876 ADAMS              20 CLERK
     7934 MILLER             10 CLERK

14 rows selected.

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

    EMPNO ENAME          DEPTNO JOB
---------- ---------- ---------- ---------
     7900 JAMES              30 CLERK

SQL> SET AUTOTRACE ON EXPLAIN
SQL> R
  1  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 | SELECT STATEMENT              |                  |     1 |    39 |
1   (0)| 00:00:01 |
|   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 Ename = 'JAMES';

    EMPNO ENAME          DEPTNO JOB
---------- ---------- ---------- ---------
      7900 JAMES                30 CLERK


Execution Plan
----------------------------------------------------------
Plan hash value: 3956160932


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

-------------------------------------------------------------------------------
```

```
|   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 Empno, Ename, Deptno, Job
  2  FROM Emp
  3  WHERE Ename = 'JAMES';

    EMPNO ENAME          DEPTNO JOB
---------- ---------- ---------- ---------
     7900 JAMES              30 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 |
-----------------------------------------------------------------------------
```

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```
----------------------------------------------------------------------
------------------

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

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

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

SQL> SPOOL OFF
```

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