

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

```
SQL> CREATE VIEW Employees
 2 AS
 3 SELECT
 4   Empno "ID Number",
 5   Ename Name,
 6   Sal "Basic Salary",
 7   Job Designation
 8 FROM Emp;
```

View created.

```
SQL> SELECT
 2   Empno "ID Number",
 3   Ename Name,
 4   Sal "Basic Salary",
 5   Job Designation
 6 FROM Emp;
```

ID Number	NAME	Basic Salary	DESIGNATI
7839	KING	5000	PRESIDENT
7698	BLAKE	2850	MANAGER
7782	CLARK	2450	MANAGER
7566	JONES	2975	MANAGER
7654	MARTIN	1250	SALESMAN
7499	ALLEN	1600	SALESMAN
7844	TURNER	1500	SALESMAN
7900	JAMES	950	CLERK
7521	WARD	1250	SALESMAN
7902	FORD	3000	ANALYST
7369	SMITH	800	CLERK

ID Number	NAME	Basic Salary	DESIGNATI
7788	SCOTT	3000	ANALYST
7876	ADAMS	1100	CLERK
7934	MILLER	1300	CLERK

14 rows selected.

Execution Plan

```
-----
 0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=3 Card=14 Bytes=54
      6)

 1      0  TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes
      =546)
```

SQL> DESC Employees

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

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```
-----  
ID Number          NOT NULL NUMBER(4)  
NAME                VARCHAR2(10)  
Basic Salary        NUMBER(7,2)  
DESIGNATION         VARCHAR2(9)
```

SQL> SELECT * FROM Employees;

```
-----  
ID Number NAME          Basic Salary DESIGNATI  
-----  
7839 KING                5000 PRESIDENT  
7698 BLAKE                2850 MANAGER  
7782 CLARK                2450 MANAGER  
7566 JONES                2975 MANAGER  
7654 MARTIN              1250 SALESMAN  
7499 ALLEN                1600 SALESMAN  
7844 TURNER              1500 SALESMAN  
7900 JAMES                950 CLERK  
7521 WARD                1250 SALESMAN  
7902 FORD                3000 ANALYST  
7369 SMITH                800 CLERK
```

```
-----  
ID Number NAME          Basic Salary DESIGNATI  
-----  
7788 SCOTT                3000 ANALYST  
7876 ADAMS                1100 CLERK  
7934 MILLER              1300 CLERK
```

14 rows selected.

Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=3 Card=14 Bytes=54  
      6)  
  
1      0      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes  
      =546)
```

```
SQL> SELECT Empno, Ename, Sal FROM Employees;  
SELECT Empno, Ename, Sal FROM Employees  
      *
```

ERROR at line 1:
ORA-00904: "SAL": invalid identifier

```
SQL> SELECT "ID Number", Name, "Basic Salary", HireDate  
      2 FROM Employees;  
SELECT "ID Number", Name, "Basic Salary", HireDate  
      *
```

ERROR at line 1:
ORA-00904: "HIREDATE": invalid identifier

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```
SQL> SELECT "ID Number", Name, "Basic Salary"  
2 FROM Employees;
```

ID Number	NAME	Basic Salary
7839	KING	5000
7698	BLAKE	2850
7782	CLARK	2450
7566	JONES	2975
7654	MARTIN	1250
7499	ALLEN	1600
7844	TURNER	1500
7900	JAMES	950
7521	WARD	1250
7902	FORD	3000
7369	SMITH	800

ID Number	NAME	Basic Salary
7788	SCOTT	3000
7876	ADAMS	1100
7934	MILLER	1300

14 rows selected.

Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=3 Card=14 Bytes=46  
2)  
  
1      0  TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes  
=462)
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1  SELECT "ID Number", Name, "Basic Salary"  
2  FROM Employees  
3* WHERE "Basic Salary" > 1500  
SQL> /
```

ID Number	NAME	Basic Salary
7839	KING	5000
7698	BLAKE	2850
7782	CLARK	2450
7566	JONES	2975
7499	ALLEN	1600
7902	FORD	3000
7788	SCOTT	3000

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7 rows selected.

Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=3 Card=7 Bytes=231  
      )  
  
1      0      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=7 Bytes=  
      231)
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Deptno, SUM("Basic Salary")  
2  FROM Employees  
3* GROUP BY Deptno
```

SQL> /

GROUP BY Deptno

*

ERROR at line 3:

ORA-00904: "DEPTNO": invalid identifier

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Deisgnation, SUM("Basic Salary")  
2  FROM Employees  
3* GROUP BY Deisgnation
```

SQL> /

GROUP BY Deisgnation

*

ERROR at line 3:

ORA-00904: "DEISGNATION": invalid identifier

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Designation, SUM("Basic Salary")  
2  FROM Employees  
3* GROUP BY Designation
```

SQL> /

DESIGNATI SUM("BASICSALARY")

```
-----  
ANALYST          6000  
CLERK            4150  
MANAGER          8275  
PRESIDENT        5000  
SALESMAN         5600
```

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Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=4 Card=14 Bytes=266)  
      1  
      0      SORT (GROUP BY) (Cost=4 Card=14 Bytes=266)  
      2      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes=266)
```

SQL> cl scr

```
SQL> SELECT  
2  "ID Number",  
3  Name,  
4  "Basic Salary" * 12  
5  FROM Employees;
```

ID Number	NAME	"BASICSALARY"*12
7839	KING	60000
7698	BLAKE	34200
7782	CLARK	29400
7566	JONES	35700
7654	MARTIN	15000
7499	ALLEN	19200
7844	TURNER	18000
7900	JAMES	11400
7521	WARD	15000
7902	FORD	36000
7369	SMITH	9600

ID Number	NAME	"BASICSALARY"*12
7788	SCOTT	36000
7876	ADAMS	13200
7934	MILLER	15600

14 rows selected.

Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=3 Card=14 Bytes=462)  
      1  
      0      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes=462)
```

SQL> SELECT

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```
2  "ID Number",
3  Name,
4  TO_CHAR("Basic Salary", '99,99,999.99') Monthly,
5  "Basic Salary" * 12 Annual
6  FROM Employees
7  WHERE "Basic Salary" > 2500;
```

ID Number	NAME	MONTHLY	ANNUAL
7839	KING	5,000.00	60000
7698	BLAKE	2,850.00	34200
7566	JONES	2,975.00	35700
7902	FORD	3,000.00	36000
7788	SCOTT	3,000.00	36000

Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=3 Card=5 Bytes=165
      )

1      0      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=5 Bytes=
      165)
```

SQL> cl scr

```
SQL> CREATE VIEW EmpInfo
2  AS
3  SELECT
4  E.Empno      EmployeeID,
5  E.Ename      Name,
6  D.Deptno     DepartmentID,
7  D.Dname      DepartmentName
8  FROM Emp E, Dept D
9  WHERE D.Deptno = E.Deptno
10 ORDER BY D.Deptno;
```

View created.

SQL> DESC EmpInfo

Name	Null?	Type
EMPLOYEEID	NOT NULL	NUMBER(4)
NAME		VARCHAR2(10)
DEPARTMENTID	NOT NULL	NUMBER(2)
DEPARTMENTNAME		VARCHAR2(14)

SQL> SELECT * FROM EmpInfo;

EMPLOYEEID	NAME	DEPARTMENTID	DEPARTMENTNAME
7839	KING	10	ACCOUNTING
7782	CLARK	10	ACCOUNTING

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7934 MILLER	10 ACCOUNTING
7566 JONES	20 RESEARCH
7788 SCOTT	20 RESEARCH
7876 ADAMS	20 RESEARCH
7369 SMITH	20 RESEARCH
7902 FORD	20 RESEARCH
7698 BLAKE	30 SALES
7654 MARTIN	30 SALES
7499 ALLEN	30 SALES

EMPLOYEEID	NAME	DEPARTMENTID	DEPARTMENTNAME
7844	TURNER	30	SALES
7900	JAMES	30	SALES
7521	WARD	30	SALES

14 rows selected.

Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=8 Card=14 Bytes=588)  
1      0      VIEW OF 'EMPINFO' (VIEW) (Cost=8 Card=14 Bytes=588)  
2      1      SORT (ORDER BY) (Cost=8 Card=14 Bytes=770)  
3      2      HASH JOIN (Cost=7 Card=14 Bytes=770)  
4      3      TABLE ACCESS (FULL) OF 'DEPT' (TABLE) (Cost=3 Card=4  
          Bytes=88)  
5      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14  
          Bytes=462)
```

SQL> cl scr

```
SQL> CREATE VIEW EmpGrades  
2 AS  
3 SELECT  
4   E.Ename Name,  
5   E.Sal Basic,  
6   S.Grade Grade  
7 FROM Emp E , Salgrade S  
8 WHERE E.Sal BETWEEN S.LoSal AND S.HiSal  
9 ORDER BY S.Grade;
```

View created.

SQL> DESC EmpGrades

Name	Null?	Type
NAME		VARCHAR2(10)
BASIC		NUMBER(7,2)
GRADE		NUMBER

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```
SQL> SELECT * FROM EmpGrades;
```

NAME	BASIC	GRADE
SMITH	800	1
JAMES	950	1
ADAMS	1100	1
MARTIN	1250	2
WARD	1250	2
MILLER	1300	2
TURNER	1500	3
ALLEN	1600	3
CLARK	2450	4
BLAKE	2850	4
JONES	2975	4

NAME	BASIC	GRADE
FORD	3000	4
SCOTT	3000	4
KING	5000	5

14 rows selected.

Execution Plan

```
-----  
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=9 Card=1 Bytes=33)  
1      0      VIEW OF 'EMPGRADES' (VIEW) (Cost=9 Card=1 Bytes=33)  
2      1      SORT (ORDER BY) (Cost=9 Card=1 Bytes=59)  
3      2      MERGE JOIN (Cost=8 Card=1 Bytes=59)  
4      3      SORT (JOIN) (Cost=4 Card=5 Bytes=195)  
5      4      TABLE ACCESS (FULL) OF 'SALGRADE' (TABLE) (Cost=3  
          Card=5 Bytes=195)  
  
6      3      FILTER  
7      6      SORT (JOIN) (Cost=4 Card=14 Bytes=280)  
8      7      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Car  
          d=14 Bytes=280)
```

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE VIEW EmpManagers  
2 AS  
3 SELECT  
4   RowNum SerialNo,  
5   INITCAP(E.Ename)||' Works Under '  
6   ||M.Ename "Employee And Managers"  
7 FROM Emp E, Emp M  
8 WHERE E.MGR = M.Empno;
```

View created.

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SQL> DESC EmpManagers

Name	Null?	Type
SERIALNO		NUMBER
Employee And Managers		VARCHAR2(33)

SQL> SELECT * FROM EmpManagers;

```
SERIALNO Employee And Managers
-----
1 Jones Works Under KING
2 Clark Works Under KING
3 Blake Works Under KING
4 Ward Works Under BLAKE
5 James Works Under BLAKE
6 Turner Works Under BLAKE
7 Allen Works Under BLAKE
8 Martin Works Under BLAKE
9 Miller Works Under CLARK
10 Scott Works Under JONES
11 Ford Works Under JONES

SERIALNO Employee And Managers
-----
12 Smith Works Under FORD
13 Adams Works Under SCOTT
```

13 rows selected.

Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=7 Card=13 Bytes=403)

1      0      VIEW OF 'EMPMANAGERS' (VIEW) (Cost=7 Card=13 Bytes=403)
2      1      COUNT
3      2      HASH JOIN (Cost=7 Card=13 Bytes=520)
4      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14
Bytes=280)

5      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14
Bytes=280)
```

SQL> cl scr

SQL> CREATE OR REPLACE VIEW EmpAccounts

```
2 AS
3 SELECT
4   Ename,
5   Deptno,
6   Sal Monthly,
```

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```
7 Sal * 12 Annual
8 FROM Emp
9 WHERE Deptno = (SELECT
10                      Deptno
11                      FROM Dept
12                      WHERE Dname = 'ACCOUNTING')
13 ORDER BY Annual;
```

View created.

```
SQL> DESC EmpAccounts
```

Name	Null?	Type
ENAME		VARCHAR2(10)
DEPTNO	NOT NULL	NUMBER(2)
MONTHLY		NUMBER(7,2)
ANNUAL		NUMBER

```
SQL> SELECT * FROM EmpAccounts;
```

ENAME	DEPTNO	MONTHLY	ANNUAL
MILLER	10	1300	15600
CLARK	10	2450	29400
KING	10	5000	60000

Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=7 Card=1 Bytes=46)
1      0      VIEW OF 'EMPACCOUNTS' (VIEW) (Cost=7 Card=1 Bytes=46)
2      1      SORT (ORDER BY) (Cost=7 Card=1 Bytes=33)
3      2      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=33)
4      3      TABLE ACCESS (FULL) OF 'DEPT' (TABLE) (Cost=3 Card=1 Bytes=22)
```

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE VIEW CumSum
```

```
2 AS
3 SELECT
4   B.Sal,
5   SUM(A.Sal) Cum_Sal
6 FROM Emp A, Emp B
7 WHERE A.RowID <= B.RowID
8 GROUP BY B.RowID, B.Sal;
```

View created.

```
SQL> DESC CumSum
```

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

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```
-----  
SAL                                NUMBER(7,2)  
CUM_SAL                            NUMBER
```

```
SQL> SELECT * FROM CumSum;
```

```
-----  
SAL      CUM_SAL  
-----  
5000      5000  
2850      7850  
2450      10300  
2975      13275  
1250      14525  
1600      16125  
1500      17625  
950       18575  
1250      19825  
3000      22825  
800       23625  
  
SAL      CUM_SAL  
-----  
3000      26625  
1100      27725  
1300      29025
```

```
14 rows selected.
```

Execution Plan

```
-----  
0          SELECT STATEMENT Optimizer=ALL_ROWS (Cost=9 Card=10 Bytes=40  
          0)  
  
1    0     SORT (GROUP BY) (Cost=9 Card=10 Bytes=400)  
2    1       MERGE JOIN (Cost=8 Card=10 Bytes=400)  
3    2         SORT (JOIN) (Cost=4 Card=14 Bytes=280)  
4    3           TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14  
          Bytes=280)  
  
5    2           SORT (JOIN) (Cost=4 Card=14 Bytes=280)  
6    5             TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14  
          Bytes=280)
```

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE VIEW OrgDesignations  
2 AS  
3 SELECT  
4 Job  
5 FROM Emp  
6 WHERE Deptno = 10  
7 UNION
```

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```
8 SELECT
9 Job
10 FROM Emp
11 WHERE Deptno IN(20, 30);
```

View created.

```
SQL> SELECT * FROM OrgDesignations;
```

```
JOB
-----
ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN
```

Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=8 Card=14 Bytes=84
      )

1      0      VIEW OF 'ORGDESIGNATIONS' (VIEW) (Cost=8 Card=14 Bytes=84)
2      1      SORT (UNIQUE) (Cost=8 Card=14 Bytes=266)
3      2      UNION-ALL
4      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=3
      Bytes=57)

5      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=11
      Bytes=209)
```

```
SQL> cl scr
```

```
SQL> cl scr
```

```
SQL> DESC USER_VIEWS
```

Name	Null?	Type
VIEW_NAME	NOT NULL	VARCHAR2(30)
TEXT_LENGTH		NUMBER
TEXT		LONG
TYPE_TEXT_LENGTH		NUMBER
TYPE_TEXT		VARCHAR2(4000)
OID_TEXT_LENGTH		NUMBER
OID_TEXT		VARCHAR2(4000)
VIEW_TYPE_OWNER		VARCHAR2(30)
VIEW_TYPE		VARCHAR2(30)
SUPERVIEW_NAME		VARCHAR2(30)

```
SQL> COLUMN VIEW_NAME FORMAT A20
```

```
SQL> COLUMN TEXT FORMAT A40
```

```
SQL> SELECT VIEW_NAME, TEXT
```

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```
2 (
3   DepartmentName,
4   MinimumSalary,
5   MaxSalary,
6   AverageSalary,
7   SalarySum
8 )
9 AS
10 SELECT
11   D.Dname,
12   MIN(E.Sal),
13   MAX(E.Sal),
14   AVG(E.Sal),
15   SUM(E.Sal)
16 FROM Emp E, Dept D
17 WHERE E.Deptno = D.Deptno
18 GROUP BY D.Dname;
```

View created.

```
SQL> DESC DeptSalSummary
```

Name	Null?	Type
DEPARTMENTNAME		VARCHAR2(14)
MINIMUMSALARY		NUMBER
MAXSALARY		NUMBER
AVERAGESALARY		NUMBER
SALARYSUM		NUMBER

```
SQL> ED
```

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```
1 CREATE OR REPLACE VIEW DeptSalSummary
2 AS
3 SELECT
4   D.Dname,
5   MIN(E.Sal),
6   MAX(E.Sal),
7   AVG(E.Sal),
8   SUM(E.Sal)
9 FROM Emp E, Dept D
10 WHERE E.Deptno = D.Deptno
11* GROUP BY D.Dname
```

```
SQL> /
```

```
MIN(E.Sal),
*
```

ERROR at line 5:

ORA-00998: must name this expression with a column alias

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

```
SQL> CREATE VIEW InsertDept
```

```
2 (
3   DeptID,
```

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```
4 DeptName,  
5 Place  
6 )  
7 AS  
8 SELECT  
9 Deptno,  
10 Dname,  
11 Loc  
12 FROM Dept;
```

View created.

```
SQL> DESC InsertDept
```

Name	Null?	Type
DEPTID	NOT NULL	NUMBER(2)
DEPTNAME		VARCHAR2(14)
PLACE		VARCHAR2(13)

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> SELECT * FROM InsertDept;
```

DEPTID	DEPTNAME	PLACE
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> INSERT INTO InsertDept  
2 VALUES(50, 'SHIPPING', 'CHENNAI');
```

1 row created.

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	SHIPPING	CHENNAI

```
SQL> UPDATE InsertDept  
2 SET Dname = 'CARGO'  
3 WHERE Deptno = 50;  
WHERE Deptno = 50
```

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*
ERROR at line 3:
ORA-00904: "DEPTNO": invalid identifier

```
SQL> UPDATE InsertDept
  2  SET DEPTNAME = 'CARGO'
  3  WHERE DEPTID = 50;
```

1 row updated.

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	CARGO	CHENNAI

```
SQL> DELETE FROM InsertDept
  2  WHERE DeptID = 50;
```

1 row deleted.

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> cl scr
```

```
SQL> COLUMN Empno FORMAT 9999
SQL> COLUMN Deptno FORMAT 99
SQL> COLUMN Sal FORMAT 9999
SQL> COLUMN Comm FORMAT 9999
SQL> cl scr
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> SELECT * FROM Emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10

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7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

```
SQL> CREATE OR REPLACE VIEW EDept30
  2 AS
  3 SELECT *
  4 FROM Emp
  5 WHERE Deptno = 30;
```

View created.

```
SQL> DESC EDept30
```

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(9)
MGR		NUMBER(4)
HIREDATE		DATE
SAL		NUMBER(7,2)
COMM		NUMBER(7,2)
DEPTNO	NOT NULL	NUMBER(2)

```
SQL> SELECT * FROM EDept30;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

6 rows selected.

```
SQL> SELECT * FROM EDept30
  2 WHERE Ename = 'JONES';
```

no rows selected

```
SQL> SELECT * FROM EDept30
```

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```
2 WHERE Job = 'MANAGER';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30

```
SQL> cl scr
```

```
SQL> DESC EDept30
```

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(9)
MGR		NUMBER(4)
HIREDATE		DATE
SAL		NUMBER(7,2)
COMM		NUMBER(7,2)
DEPTNO	NOT NULL	NUMBER(2)

```
SQL> UPDATE EDept30
```

```
2 SET Sal = Sal + 1000  
3 WHERE Empno = 7566;
```

```
0 rows updated.
```

```
SQL> UPDATE EDept30
```

```
2 SET Sal = Sal + 1000  
3 WHERE Empno = 7654;
```

```
1 row updated.
```

```
SQL> DELETE FROM EDept30
```

```
2 WHERE Ename = 'JONES';
```

```
0 rows deleted.
```

```
SQL> DELETE FROM EDept30
```

```
2 WHERE Ename = 'TURNER';
```

```
1 row deleted.
```

```
SQL> INSERT INTO EDept30
```

```
2 (Empno, Ename, Sal, Job, Deptno)  
3 VALUES(1234, 'SAMPLE01', 2500, 'CLERK', 30);
```

```
1 row created.
```

```
SQL> (Empno, Ename, Sal, Job, Deptno)
```

```
2
```

```
SQL> INSERT INTO EDept30
```

```
2 (Empno, Ename, Sal, Job, Deptno)  
3 VALUES(1235, 'SAMPLE02', 2500, 'CLERK', 20);
```

```
1 row created.
```

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```
SQL> CREATE OR REPLACE VIEW EDept30
 2 AS
 3 SELECT *
 4 FROM Emp
 5 WHERE Deptno = 30
 6 WITH CHECK OPTION CONSTRAINT EDept30ChkView;
```

View created.

```
SQL> INSERT INTO EDept30
 2 (Empno, Ename, Sal, Job, Deptno)
 3 VALUES(1236, 'SAMPLE03', 2500, 'CLERK', 20);
INSERT INTO EDept30
      *
ERROR at line 1:
ORA-01402: view WITH CHECK OPTION where-clause violation
```

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE VIEW EDept30
 2 AS
 3 SELECT *
 4 FROM Emp
 5 WHERE Deptno = 30
 6 WITH READ ONLY;
```

View created.

```
SQL> INSERT INTO EDept30
 2 (Empno, Ename, Sal, Job, Deptno)
 3 VALUES(1236, 'SAMPLE03', 2500, 'CLERK', 20);
(Empno, Ename, Sal, Job, Deptno)
      *
ERROR at line 2:
ORA-01733: virtual column not allowed here
```

```
SQL> DELETE FROM EDept30
 2 WHERE Ename = 'TURNER';
DELETE FROM EDept30
      *
ERROR at line 1:
ORA-01752: cannot delete from view without exactly one key-preserved table
```

```
SQL> UPDATE EDept30
 2 SET Sal = Sal + 1000
 3 WHERE Ename = 'TURNER';
SET Sal = Sal + 1000
      *
ERROR at line 2:
ORA-01733: virtual column not allowed here
```

```
SQL> cl scr
```

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```
SQL> CREATE TABLE MyMasterDF
  2  (
  3  MastID          NUMBER(2)
  4  CONSTRAINT MastIDDFPK PRIMARY KEY
  5  INITIALLY DEFERRED DEFERRABLE,
  6  MastName  VARCHAR2(10)
  7  CONSTRAINT MastNameDFCHK
  8  CHECK(MastName = UPPER(MastName))
  9  INITIALLY DEFERRED DEFERRABLE,
 10  MastDate  DATE
 11  CONSTRAINT MastDateDFNN NOT NULL
 12  INITIALLY DEFERRED DEFERRABLE
 13 );
```

Table created.

```
SQL> INSERT INTO
  2  MyMasterDF(MastID, MastName, MastDate)
  3  VALUES(10, 'MASTER10', '10-OCT-07');
```

1 row created.

```
SQL> INSERT INTO
  2  MyMasterDF(MastID, MastName, MastDate)
  3  VALUES(11, 'MASTER11', '11-OCT-07');
```

1 row created.

```
SQL> INSERT INTO
  2  MyMasterDF(MastID, MastName, MastDate)
  3  VALUES(12, 'MASTER12', '12-OCT-07');
```

1 row created.

```
SQL> INSERT INTO
  2  MyMasterDF(MastID, MastName, MastDate)
  3  VALUES(10, 'MASTER10', '10-OCT-07');
```

1 row created.

```
SQL> INSERT INTO
  2  MyMasterDF(MastID, MastName, MastDate)
  3  VALUES(12, 'MASTER12', '12-OCT-07');
```

1 row created.

```
SQL> COMMIT;
```

```
COMMIT
```

```
*
```

```
ERROR at line 1:
```

```
ORA-02091: transaction rolled back
```

```
ORA-00001: unique constraint (SCOTT.MASTIDDFPK) violated
```

```
SQL> SPPOOL OFF
```

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