

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT * FROM TAB;

TNAME	TABTYPE	CLUSTERID
BONUS	TABLE	
CUSTOMER	TABLE	
DEPT	TABLE	
DUMMY	TABLE	
EMP	TABLE	
ITEM	TABLE	
ORD	TABLE	
PRICE	TABLE	
PRODUCT	TABLE	
SALES	VIEW	
SALGRADE	TABLE	

11 rows selected.

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)	
EDITIONING_VIEW	
VARCHAR2(1)	

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```
READ_ONLY
VARCHAR2(1)
```

```
SQL> COL VIEW_NAME FOR A10
SQL> COL TEXT FOR A100
SQL> SELECT VIEW_NAME, TEXT
   2   FROM USER_VIEWS
   3   WHERE VIEW_NAME = 'SALES';
```

```
VIEW_NAME TEXT
-----
```

```
SALES      SELECT REPID, ORD.CUSTID, CUSTOMER.NAME CUSTNAME,
PRODUCT.PRODID,
           DESCRIP PRODNA
```

```
SQL> SET LONG 200
SQL> R
   1   SELECT VIEW_NAME, TEXT
   2   FROM USER_VIEWS
  3*  WHERE VIEW_NAME = 'SALES'
```

```
VIEW_NAME TEXT
-----
```

```
SALES      SELECT REPID, ORD.CUSTID, CUSTOMER.NAME CUSTNAME,
PRODUCT.PRODID,
           DESCRIP PRODNAME, SUM(ITEMTOT) AMOUNT
           FROM ORD, ITEM, CUSTOMER, PRODUCT
           WHERE ORD.ORDID = ITEM.ORDID
           AND ORD.CUSTID = CUSTOMER.CUSTID
```

```
SQL> 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;
           MIN(E.Sal),
           *
```

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ERROR at line 5:

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

```
SQL> CREATE OR REPLACE VIEW DeptSalSummary
  2  AS
  3  SELECT
  4    D.Dname DepartmentName,
  5    MIN(E.Sal) MinimumSalary,
  6    MAX(E.Sal) MaxSalary,
  7    AVG(E.Sal) AverageSalary,
  8    SUM(E.Sal) SalarySum
  9  FROM Emp E, Dept D
 10 WHERE E.Deptno = D.Deptno
 11 GROUP BY D.Dname;
```

View created.

```
SQL> DESC DeptSalSummary
```

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

Type	
------	--

DEPARTMENTNAME	
VARCHAR2(14)	
MINIMUMSALARY	
NUMBER	
MAXSALARY	
NUMBER	
AVERAGESALARY	
NUMBER	
SALARYSUM	
NUMBER	

```
SQL> CREATE OR REPLACE VIEW DeptSalSummary
  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),
```

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```
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> cl scr
```

```
SQL> CREATE OR REPLACE VIEW InsertDept10
```

```
2 AS
3 SELECT *
4 FROM Emp
5 WHERE Deptno = 10;
```

View created.

```
SQL> DESC InsertDept10
```

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

Type

EMPNO	NOT
NULL NUMBER(4)	
ENAME	
VARCHAR2(10)	
JOB	
VARCHAR2(9)	
MGR	
NUMBER(4)	

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HIREDATE
DATE
SAL
NUMBER(7,2)
COMM
NUMBER(7,2)
DEPTNO
NULL NUMBER(2)

SQL> SELECT * FROM InsertDept10;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
7839	KING	PRESIDENT		17-NOV-81	5000
7782	CLARK	MANAGER	7839	09-JUN-81	2450
7934	MILLER	CLERK	7782	23-JAN-82	1300

SQL> CREATE TABLE Dept10 --On The Fly Table
2 AS
3 SELECT *
4 FROM InsertDept10;

Table created.

SQL> DESC Dept10

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

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```
COMM
NUMBER(7,2)
DEPTNO
NULL NUMBER(2)
```

NOT

```
SQL> SELECT * FROM Dept10;
```

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM		DEPTNO				
10	7839	KING	PRESIDENT		17-NOV-81	5000
10	7782	CLARK	MANAGER	7839	09-JUN-81	2450
10	7934	MILLER	CLERK	7782	23-JAN-82	1300

```
SQL> CREATE OR REPLACE VIEW EmpGradeIns
2 AS
3 SELECT
4   Ename,
5   Job,
6   Sal,
7   Grade
8 FROM Emp E, SalGrade S
9 WHERE E.Sal BETWEEN S.LoSal AND S.HiSal;
```

View created.

```
SQL> DESC EmpGradeIns
Name                                         Null?
Type
-----
ENAME
VARCHAR2(10)
JOB
VARCHAR2(9)
SAL
NUMBER(7,2)
GRADE
NUMBER
```

```
SQL> SELECT * FROM EmpGradeIns;
```

ENAME	JOB	SAL	GRADE
-------	-----	-----	-------

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```
-----
SMITH      CLERK      800      1
JAMES      CLERK      950      1
ADAMS      CLERK     1100      1
WARD       SALESMAN   1250      2
MARTIN     SALESMAN   1250      2
MILLER     CLERK     1300      2
TURNER     SALESMAN   1500      3
ALLEN      SALESMAN   1600      3
CLARK      MANAGER    2450      4
BLAKE      MANAGER    2850      4
JONES      MANAGER    2975      4
FORD       ANALYST    3000      4
SCOTT      ANALYST    3000      4
KING       PRESIDENT  5000      5
```

14 rows selected.

```
SQL> CREATE TABLE EmpGrades
  2  (
  3    Employee,
  4    Designation,
  5    BasicSalary,
  6    Grade
  7  )
  8  AS
  9  SELECT *
 10  FROM EmpGradeIns;
```

Table created.

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

```
EMPLOYEE    DESIGNATI BASICSALARY    GRADE
-----
SMITH      CLERK      800      1
JAMES      CLERK      950      1
ADAMS      CLERK     1100      1
WARD       SALESMAN   1250      2
MARTIN     SALESMAN   1250      2
MILLER     CLERK     1300      2
TURNER     SALESMAN   1500      3
ALLEN      SALESMAN   1600      3
CLARK      MANAGER    2450      4
BLAKE      MANAGER    2850      4
JONES      MANAGER    2975      4
FORD       ANALYST    3000      4
```

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```
SCOTT      ANALYST      3000      4
KING       PRESIDENT    5000      5
```

14 rows selected.

```
SQL> CREATE TABLE EmpGrades01
  2  (
  3    Employee
  4    CONSTRAINT EmpGrades01_Employee_CHK01
  5    CHECK(Employee = UPPER(Employee)),
  6    Designation,
  7    BasicSalary,
  8    Grade
  9  )
10  AS
11  SELECT *
12  FROM EmpGradeIns;
```

Table created.

```
SQL> DROP VIEW EmpGradeIns;
```

View dropped.

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

EMPLOYEE	DESIGNATI	BASICSALARY	GRADE
SMITH	CLERK	800	1
JAMES	CLERK	950	1
ADAMS	CLERK	1100	1
WARD	SALESMAN	1250	2
MARTIN	SALESMAN	1250	2
MILLER	CLERK	1300	2
TURNER	SALESMAN	1500	3
ALLEN	SALESMAN	1600	3
CLARK	MANAGER	2450	4
BLAKE	MANAGER	2850	4
JONES	MANAGER	2975	4
FORD	ANALYST	3000	4
SCOTT	ANALYST	3000	4
KING	PRESIDENT	5000	5

14 rows selected.

```
SQL> cl scr
```

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```
SQL> CREATE OR REPLACE VIEW InsertDept
2  (
3    DeptID,
4    DeptName,
5    Place
6  )
7  AS
8  SELECT
9    Deptno,
10   Dname,
11   Loc
12  FROM Dept;
```

View created.

```
SQL> DESC Dept
Name
Type
```

Null?

```
-----
DEPTNO
NULL NUMBER(2)
DNAME
VARCHAR2(14)
LOC
VARCHAR2(13)
```

NOT

```
SQL> DESC InsertDept
Name
Type
```

Null?

```
-----
DEPTID
NULL NUMBER(2)
DEPTNAME
VARCHAR2(14)
PLACE
VARCHAR2(13)
```

NOT

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

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

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

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

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

```
ERROR at line 1:
ORA-00904: "LOC": invalid identifier
```

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

```
1 row created.
```

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

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

```
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 Place = 'MUMBAI'
  3  WHERE DeptID = 40;
```

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1 row updated.

SQL> SELECT * FROM Dept;

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

SQL> SPPOOL OFF

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