

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

```
SQL> CREATE TABLE SampleNN01
 2  (
 3  SampID NUMBER(2)
 4  CONSTRAINT SampleNN01_SampID_NN NOT NULL,
 5  SampName VARCHAR2(10)
 6  CONSTRAINT SampleNN01_SampName_NN NOT NULL,
 7  SampDate DATE
 8  );
```

Table created.

SQL> DESC SampleNN01

Name	Null?	Type
SAMPID	NOT NULL	NUMBER(2)
SAMPNAME	NOT NULL	VARCHAR2(10)
SAMPDATE		DATE

```
SQL> INSERT INTO SampleNN01
 2  VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleNN01
 2  VALUES(NULL, 'SAMPLE01', SYSDATE);
VALUES(NULL, 'SAMPLE01', SYSDATE)
*
```

ERROR at line 2:
ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN01"."SAMPID")

```
SQL> INSERT INTO SampleNN01
 2  VALUES(2, NULL, SYSDATE);
VALUES(2, NULL, SYSDATE)
*
```

ERROR at line 2:
ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN01"."SAMPNAME")

```
SQL> INSERT INTO SampleNN01
 2  VALUES(2, 'SAMPLE02', NULL);
```

1 row created.

SQL> ED

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```
1  CREATE TABLE SampleNN02
2  (
3  SampID NUMBER(2),
4  SampName VARCHAR2(10)
5  CONSTRAINT SampleNN02_SampName_NN NOT NULL,
6  SampDate DATE,
```

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```
7 CONSTRAINT SampleNN02_SampID_NN NOT NULL(SampID)
8* )
SQL> /
CONSTRAINT SampleNN02_SampID_NN NOT NULL(SampID)
*
```

```
ERROR at line 7:
ORA-00904: : invalid identifier
```

```
SQL> cl scr
```

```
SQL> CREATE TABLE SampUNQ01
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SampUNQ01_SampID_UNQ UNIQUE,
5 SampName VARCHAR2(10),
6 SampDate DATE
7 );
```

Table created.

```
SQL> INSERT INTO SampUNQ01
2 VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ01
2 VALUES(1, 'SAMPLE02', SYSDATE);
INSERT INTO SampUNQ01
```

*

```
ERROR at line 1:
ORA-00001: unique constraint (SCOTT.SAMPUNQ01_SAMPID_UNQ) violated
```

```
SQL> INSERT INTO SampUNQ01
2 VALUES(NULL, 'SAMPLE02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ01
2 VALUES(NULL, 'SAMPLE03', SYSDATE);
```

1 row created.

```
SQL> cl scr
```

```
SQL> ED
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```

```
1 CREATE TABLE SampUNQ02
2 (
3 SampID NUMBER(2),
4 SampName VARCHAR2(10),
5 SampDate DATE,
6 CONSTRAINT SampUNQ02_SampID_UNQ UNIQUE(SampID)
```

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```
7* )  
SQL> /
```

Table created.

```
SQL> ED  
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```

```
1 CREATE TABLE SampUNQ03  
2 (  
3 SampID NUMBER(2)  
4 CONSTRAINT SampUNQ03_SampID_UNQ UNIQUE,  
5 SampName VARCHAR2(10)  
6 CONSTRAINT SampUNQ03_SampName_UNQ UNIQUE,  
7 SampDate DATE  
8* )  
SQL> /
```

Table created.

```
SQL> INSERT INTO SampUNQ03  
2 VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ03  
2 VALUES(2, 'SAMPLE01', SYSDATE);
```

```
INSERT INTO SampUNQ03
```

*

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPUNQ03_SAMPNAME_UNQ) violated

```
SQL> INSERT INTO SampUNQ03  
2 VALUES(1, 'SAMPLE02', SYSDATE);
```

```
INSERT INTO SampUNQ03
```

*

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPUNQ03_SAMPID_UNQ) violated

```
SQL> INSERT INTO SampUNQ03  
2 VALUES(2, 'SAMPLE02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ03  
2 VALUES(NULL, 'SAMPLE03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ03  
2 VALUES(NULL, 'SAMPLE04', SYSDATE);
```

1 row created.

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```
SQL> INSERT INTO SampUNQ03
  2  VALUES(3, NULL, SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ03
  2  VALUES(4, NULL, SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ03
  2  VALUES(NULL, NULL, SYSDATE);
```

1 row created.

```
SQL> cl scr
```

```
SQL> ED
```

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```
  1  CREATE TABLE SampUNQ04
  2  (
  3    SampID NUMBER(2),
  4    SampName VARCHAR2(10),
  5    SampDate DATE,
  6    CONSTRAINT SampUNQ04_SampID_UNQ UNIQUE(SampID),
  7    CONSTRAINT SampUNQ04_SampName_UNQ UNIQUE(SampName)
  8* )
SQL> /
```

Table created.

```
SQL> ED
```

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```
  1  CREATE TABLE SampUNQ05
  2  (
  3    SampID NUMBER(2),
  4    SampName VARCHAR2(10),
  5    SampDate DATE,
  6    CONSTRAINT SampUNQ05_SampIDName_UNQ
  7    UNIQUE(SampID, SampName)
  8* )
SQL> /
```

Table created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(1, 'SAMPLE02', SYSDATE);
```

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1 row created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(2, 'SAMPLE02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(NULL, 'SAMPLE03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(NULL, 'SAMPLE04', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(NULL, 'SAMPLE04', SYSDATE);
```

```
INSERT INTO SampUNQ05
```

*

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPUNQ05_SAMPIDNAME_UNQ) violated

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(NULL, NULL, SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampUNQ05
  2  VALUES(NULL, NULL, SYSDATE);
```

1 row created.

```
SQL> ED
```

Wrote file afiedt.buf

```
  1  CREATE TABLE SampUNQ06
  2  (
  3  SampID NUMBER(2)
  4  CONSTRAINT SampUNQ06_SampID_UNQ UNIQUE,
  5  SampName VARCHAR2(10),
  6  SampDate DATE,
  7  CONSTRAINT SampUNQ06_SampIDName_UNQ
  8  UNIQUE(SampID, SampName)
  9* )
```

```
SQL> /
```

Table created.

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

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```
SQL> CREATE TABLE SamplePK01
 2 (
 3   SampID NUMBER(2)
 4   CONSTRAINT SamplePK01_SampID_PK PRIMARY KEY,
 5   SampName VARCHAR2(10),
 6   SampDate DATE
 7 );
```

Table created.

```
SQL> DESC SamplePK01
```

Name	Null?	Type
SAMPID	NOT NULL	NUMBER(2)
SAMPNAME		VARCHAR2(10)
SAMPDATE		DATE

```
SQL> INSERT INTO SamplePK01
 2 VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK01
 2 VALUES(1, 'SAMPLE02', SYSDATE);
```

```
INSERT INTO SamplePK01
```

*

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLEPK01_SAMPID_PK) violated

```
SQL> INSERT INTO SamplePK01
 2 VALUES(NULL, 'SAMPLE02', SYSDATE);
VALUES(NULL, 'SAMPLE02', SYSDATE)
*
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLEPK01"."SAMPID")

```
SQL> ED
```

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```
 1 CREATE TABLE SamplePK02
 2 (
 3   SampID NUMBER(2),
 4   SampName VARCHAR2(10),
 5   SampDate DATE,
 6   CONSTRAINT SamplePK02_SampID_PK
 7   PRIMARY KEY(SampID)
 8* )
```

```
SQL> /
```

Table created.

```
SQL> ED
```

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```
1 CREATE TABLE SamplePK03
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10)
5   CONSTRAINT SamplePK03_SampName_PK PRIMARY KEY,
6   SampDate DATE,
7   CONSTRAINT SamplePK03_SampID_PK
8   PRIMARY KEY(SampID)
9* )
SQL> /
PRIMARY KEY(SampID)
*
ERROR at line 8:
ORA-02260: table can have only one primary key
```

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

```
1 CREATE TABLE SamplePK03
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10)
5   CONSTRAINT SamplePK03_SampName_NN NOT NULL,
6   CONSTRAINT SamplePK03_SampName_UNQ UNIQUE,
7   SampDate DATE,
8   CONSTRAINT SamplePK03_SampID_PK
9   PRIMARY KEY(SampID)
10* )
SQL> /
```

Table created.

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

```
1 CREATE TABLE SamplePK04
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10)
5   CONSTRAINT SamplePK04_SampName_NN NOT NULL,
6   SampDate DATE,
7   CONSTRAINT SamplePK04_SampID_PK
8   PRIMARY KEY(SampID),
9   CONSTRAINT SamplePK04_SampName_UNQ
10  UNIQUE(SampName)
11* )
SQL> /
```

Table created.

```
SQL> CREATE TABLE SamplePK05
2 (
3   SampID NUMBER(2),
```

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```
4 SampName VARCHAR2(10),
5 SampDate DATE,
6 CONSTRAINT SamplePK05_SampIDName_PK
7 PRIMARY KEY(SampID, SammName)
8 );
PRIMARY KEY(SampID, SammName)
*
```

```
ERROR at line 7:
ORA-00904: "SAMMNAME": invalid identifier
```

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

```
1 CREATE TABLE SamplePK05
2 (
3 SampID NUMBER(2),
4 SampName VARCHAR2(10),
5 SampDate DATE,
6 CONSTRAINT SamplePK05_SampIDName_PK
7 PRIMARY KEY(SampID, SampName)
8* )
SQL> /
```

Table created.

```
SQL> INSERT INTO SamplePK05
2 VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK05
2 VALUES(1, 'SAMPLE02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK05
2 VALUES(2, 'SAMPLE02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK05
2 VALUES(NULL, 'SAMPLE03', SYSDATE);
VALUES(NULL, 'SAMPLE03', SYSDATE)
*
```

```
ERROR at line 2:
ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLEPK05"."SAMPID")
```

```
SQL> INSERT INTO SamplePK05
2 VALUES(3, NULL, SYSDATE);
VALUES(3, NULL, SYSDATE)
*
```

```
ERROR at line 2:
ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLEPK05"."SAMPNAME")
```


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```
SQL> cl scr
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 CREATE TABLE SamplePK06
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SamplePK06_SampID_UNQ UNIQUE,
5 SampName VARCHAR2(10),
6 SampDate DATE,
7 CONSTRAINT SamplePK06_SampID_PK
8 PRIMARY KEY(SampID)
9* )
```

```
SQL> /
```

```
CONSTRAINT SamplePK06_SampID_UNQ UNIQUE,
*
```

```
ERROR at line 4:
```

```
ORA-02261: such unique or primary key already exists in the table
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 CREATE TABLE SamplePK06
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SamplePK06_SampID_UNQ UNIQUE,
5 SampName VARCHAR2(10),
6 SampDate DATE,
7 CONSTRAINT SamplePK06_SampIDName_PK
8 PRIMARY KEY(SampID, SampName)
9* )
```

```
SQL> /
```

```
Table created.
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 CREATE TABLE SamplePK07
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SamplePK07_SampID_UNQ UNIQUE,
5 SampName VARCHAR2(10)
6 CONSTRAINT SamplePK07_SampName_UNQ UNIQUE,
7 SampDate DATE,
8 CONSTRAINT SamplePK07_SampIDName_PK
9 PRIMARY KEY(SampID, SampName)
10* )
```

```
SQL> /
```

```
Table created.
```

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SQL> ED

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```
1 CREATE TABLE SamplePK08
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10),
5   SampDate DATE,
6   CONSTRAINT SamplePK08_SampIDName_PK
7   PRIMARY KEY(SampID, SampName),
8   CONSTRAINT SamplePK08_SampIDName_UNQ
9   UNIQUE(SampID, SampName)
10* )
```

SQL> /

```
UNIQUE(SampID, SampName)
```

*

ERROR at line 9:

ORA-02261: such unique or primary key already exists in the table

SQL> SPOOL OFF

SQL> SELECT * FROM TAB;

TNAME	TABTYPE	CLUSTERID
SAMPLEPK01	TABLE	
SAMPLEPK02	TABLE	
SAMPLEPK03	TABLE	
SAMPLEPK04	TABLE	
SAMPLEPK05	TABLE	
SAMPLEPK06	TABLE	
SAMPLEPK07	TABLE	
EMPLOYEES	VIEW	
EMPINFO	VIEW	
EMPGRADES	VIEW	
EMPMANAGERS	VIEW	

TNAME	TABTYPE	CLUSTERID
EMPACCOUNTS	VIEW	
CUMSUM	VIEW	
ORGDESIGNATIONS	VIEW	
DEPT	TABLE	
EMP	TABLE	
BONUS	TABLE	
SALGRADE	TABLE	
DUMMY	TABLE	
CUSTOMER	TABLE	
ORD	TABLE	
ITEM	TABLE	

TNAME	TABTYPE	CLUSTERID
PRODUCT	TABLE	

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```
PRICE          TABLE
SALES          VIEW
```

25 rows selected.

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

```
SQL> CREATE TABLE MyDept
 2  (
 3  Deptno NUMBER(2)
 4  CONSTRAINT MyDept_Deptno_PK PRIMARY KEY,
 5  Dname VARCHAR2(16)
 6  CONSTRAINT MyDept_Dname_NN NOT NULL,
 7  Loc VARCHAR2(16)
 8  CONSTRAINT MyDept_Loc_NN NOT NULL
 9  );
```

Table created.

```
SQL> CREATE TABLE MyEmp
 2  (
 3  Empno NUMBER(4)
 4  CONSTRAINT MyEmp_Empno_PK PRIMARY KEY,
 5  Ename VARCHAR2(10)
 6  CONSTRAINT MyEmp_Ename_NN NOT NULL,
 7  Job VARCHAR2(14)
 8  CONSTRAINT MyEmp_Job_NN NOT NULL,
 9  HireDate DATE
10  CONSTRAINT MyEmp_HireDate_NN NOT NULL,
11  MGR NUMBER(4)
12  CONSTRAINT MyEmp_MGR_FK
13  REFERENCES MyEmp(Empno)
14  ON DELETE SET NULL,
15  Sal NUMBER(7, 2)
16  CONSTRAINT MyEmp_Sal_NN NOT NULL,
17  Comm NUMBER(7, 2),
18  DeptID NUMBER(2)
19  CONSTRAINT MyEmp_DeptID_NN NOT NULL
20  CONSTRAINT MyEmp_DeptID_FK
21  REFERENCES MyDept(Deptno)
22  ON DELETE CASCADE
23  );
```

Table created.

```
SQL> DESC Dept
```

Name	Null?	Type
DEPTNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(14)
LOC		VARCHAR2(13)

```
SQL> DESC MyDept
```

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

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```
-----  
DEPTNO          NOT NULL NUMBER(2)  
DNAME           NOT NULL VARCHAR2(16)  
LOC             NOT NULL VARCHAR2(16)
```

SQL> DESC Emp

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

SQL> DESC MyEmp

```
-----  
Name           Null?    Type  
-----  
EMPNO          NOT NULL NUMBER(4)  
ENAME          NOT NULL VARCHAR2(10)  
JOB            NOT NULL VARCHAR2(14)  
HIREDATE       NOT NULL DATE  
MGR            NUMBER(4)  
SAL            NOT NULL NUMBER(7,2)  
COMM           NUMBER(7,2)  
DEPTID        NOT NULL NUMBER(2)
```

SQL> INSERT INTO MyEmp

```
2  VALUES(1230, 'SAMPLE01', 'MANAGER', SYSDATE,  
3
```

SQL> cl scr

SQL> CREATE TABLE SamplePK01

```
2  (  
3  SampID NUMBER(2)  
4  CONSTRAINT SamplePK01_SampID_PK PRIMARY KEY,  
5  SampName VARCHAR2(10),  
6  SampDate DATE  
7  );
```

Table created.

SQL> CREATE TABLE SampleFK01

```
2  (  
3  SampID NUMBER(2)  
4  CONSTRAINT SampleFK01_SampID_PK PRIMARY KEY,  
5  SampName VARCHAR2(10),  
6  SampDate DATE,  
7  SampIDFK NUMBER(2)  
8  CONSTRAINT SampleFK01_SampIDFK_FK  
9  REFERENCES SamplePK01(SampID)  
10 );
```

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Table created.

```
SQL> INSERT INTO SampleFK01
  2  VALUES(20, 'SAMPLE20', SYSDATE, NULL);
```

1 row created.

```
SQL> INSERT INTO SamplePK01
  2  VALUES(10, 'SAMPLE10', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK01
  2  VALUES(11, 'SAMPLE11', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK01
  2  VALUES(12, 'SAMPLE12', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK01
  2  VALUES(13, 'SAMPLE13', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleFK01
  2  VALUES(21, 'SAMPLE21', SYSDATE, 10);
```

1 row created.

```
SQL> INSERT INTO SampleFK01
  2  VALUES(22, 'SAMPLE22', SYSDATE, 15);
```

```
INSERT INTO SampleFK01
```

```
*
```

```
ERROR at line 1:
```

```
ORA-02291: integrity constraint (SCOTT.SAMPLEFK01_SAMPIDFK_FK) violated -
parent key not found
```

```
SQL> INSERT INTO SampleFK01
  2  VALUES(22, 'SAMPLE22', SYSDATE, 10);
```

1 row created.

```
SQL> INSERT INTO SampleFK01
  2  VALUES(23, 'SAMPLE23', SYSDATE, 12);
```

1 row created.

```
SQL> SELECT * FROM SamplePK01;
```

```
      SAMPID SAMPNAME  SAMPDATE
-----
```

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```
10 SAMPLE10 23-JUN-10
11 SAMPLE11 23-JUN-10
12 SAMPLE12 23-JUN-10
13 SAMPLE13 23-JUN-10
```

```
SQL> SELECT * FROM SampleFK01;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
20	SAMPLE20	23-JUN-10	
21	SAMPLE21	23-JUN-10	10
22	SAMPLE22	23-JUN-10	10
23	SAMPLE23	23-JUN-10	12

```
SQL> DELETE FROM SamplePK01
2 WHERE SampID = 13;
```

1 row deleted.

```
SQL> DELETE FROM SamplePK01
2 WHERE SampID = 12;
```

```
DELETE FROM SamplePK01
```

*

ERROR at line 1:

ORA-02292: integrity constraint (SCOTT.SAMPLEFK01_SAMPIDFK_FK) violated - child record found

```
SQL> DELETE FROM SampleFK01
2 WHERE SampID = 23;
```

1 row deleted.

```
SQL> cl scr
```

```
SQL> CREATE TABLE SamplePK02
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SamplePK02_SampID_PK PRIMARY KEY,
5 SampName VARCHAR2(10),
6 SampDate DATE
7 );
```

Table created.

```
SQL> CREATE TABLE SampleFK02
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SampleFK02_SampID_PK PRIMARY KEY,
5 SampName VARCHAR2(10),
6 SampDate DATE,
7 SampIDFK NUMBER(2)
8 CONSTRAINT SampleFK02_SampIDFK_FK
9 REFERENCES SamplePK02(SampID)
10 ON DELETE SET NULL
```

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```
11 );
```

Table created.

```
SQL> INSERT INTO SamplePK02
  2 VALUES(1, 'SAMPLE01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK02
  2 VALUES(2, 'SAMPLE02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK02
  2 VALUES(3, 'SAMPLE03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleFK02
  2 VALUES(10, 'SAMPLE10', SYSDATE, 1);
```

1 row created.

```
SQL> INSERT INTO SampleFK02
  2 VALUES(11, 'SAMPLE11', SYSDATE, 2);
```

1 row created.

```
SQL> INSERT INTO SampleFK02
  2 VALUES(12, 'SAMPLE12', SYSDATE, 2);
```

1 row created.

```
SQL> INSERT INTO SampleFK02
  2 VALUES(13, 'SAMPLE13', SYSDATE, 2);
```

1 row created.

```
SQL> SELECT * FROM SamplePK02;
```

SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	23-JUN-10
2	SAMPLE02	23-JUN-10
3	SAMPLE03	23-JUN-10

```
SQL> SELECT * FROM SampleFK02;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
10	SAMPLE10	23-JUN-10	1
11	SAMPLE11	23-JUN-10	2
12	SAMPLE12	23-JUN-10	2
13	SAMPLE13	23-JUN-10	2

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```
SQL> DELETE FROM SamplePK02
      2 WHERE SampID = 2;
```

1 row deleted.

```
SQL> SELECT * FROM SampleFK02;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
10	SAMPLE10	23-JUN-10	1
11	SAMPLE11	23-JUN-10	
12	SAMPLE12	23-JUN-10	
13	SAMPLE13	23-JUN-10	

```
SQL> cl scr
```

```
SQL> CREATE TABLE SamplePK03
      2 (
      3 SampID NUMBER(2)
      4 CONSTRAINT SamplePK03_SampID_PK PRIMARY KEY,
      5 SampName VARCHAR2(10),
      6 SampDate DATE
      7 );
```

Table created.

```
SQL> CREATE TABLE SampleFK03_1
      2 (
      3 SampID NUMBER(2)
      4 CONSTRAINT SampleFK03_1_SampID_PK PRIMARY KEY,
      5 SampName VARCHAR2(10),
      6 SampDate DATE,
      7 SampIDFK NUMBER(2)
      8 CONSTRAINT SampleFK03_1_SampIDFK_FK
      9 REFERENCES SamplePK03(SampID)
     10 ON DELETE CASCADE
     11 );
```

Table created.

```
SQL> ED
```

Wrote file afiedt.buf

```
      1 CREATE TABLE SampleFK03_2
      2 (
      3 SampID NUMBER(2)
      4 CONSTRAINT SampleFK03_2_SampID_PK PRIMARY KEY,
      5 SampName VARCHAR2(10),
      6 SampDate DATE,
      7 SampIDFK NUMBER(2)
      8 CONSTRAINT SampleFK03_2_SampIDFK_FK
      9 REFERENCES SamplePK03(SampID)
     10 ON DELETE SET NULL
     11* )
```


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SQL> /

Table created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(10, 'SAMPLE10', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(11, 'SAMPLE11', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(12, 'SAMPLE12', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(13, 'SAMPLE13', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(14, 'SAMPLE14', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(15, 'SAMPLE15', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SamplePK03
  2 VALUES(16, 'SAMPLE16', SYSDATE);
```

1 row created.

```
SQL> COMMIT;
```

Commit complete.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(20, 'SAMPLE20', SYSDATE, 10);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(21, 'SAMPLE21', SYSDATE, 10);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(22, 'SAMPLE22', SYSDATE, 10);
```

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1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(23, 'SAMPLE23', SYSDATE, 12);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(24, 'SAMPLE24', SYSDATE, 12);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(25, 'SAMPLE25', SYSDATE, 13);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(26, 'SAMPLE26', SYSDATE, 13);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(27, 'SAMPLE27', SYSDATE, 13);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_1
  2 VALUES(28, 'SAMPLE28', SYSDATE, 15);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(30, 'SAMPLE30', SYSDATE, 10);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(31, 'SAMPLE31', SYSDATE, 10);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(32, 'SAMPLE32', SYSDATE, 11);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(33, 'SAMPLE33', SYSDATE, 11);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(34, 'SAMPLE34', SYSDATE, 14);
```

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1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(35, 'SAMPLE35', SYSDATE, 14);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(36, 'SAMPLE36', SYSDATE, 14);
```

1 row created.

```
SQL> INSERT INTO SampleFK03_2
  2 VALUES(37, 'SAMPLE37', SYSDATE, 15);
```

1 row created.

```
SQL> COMMIT;
```

Commit complete.

```
SQL> cl scr
```

```
SQL> SELECT * FROM SamplePK03;
```

SAMPID	SAMPNAME	SAMPDATE
10	SAMPLE10	23-JUN-10
11	SAMPLE11	23-JUN-10
12	SAMPLE12	23-JUN-10
13	SAMPLE13	23-JUN-10
14	SAMPLE14	23-JUN-10
15	SAMPLE15	23-JUN-10
16	SAMPLE16	23-JUN-10

7 rows selected.

```
SQL> SELECT * FROM SampleFK03_1;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
20	SAMPLE20	23-JUN-10	10
21	SAMPLE21	23-JUN-10	10
22	SAMPLE22	23-JUN-10	10
23	SAMPLE23	23-JUN-10	12
24	SAMPLE24	23-JUN-10	12
25	SAMPLE25	23-JUN-10	13
26	SAMPLE26	23-JUN-10	13
27	SAMPLE27	23-JUN-10	13
28	SAMPLE28	23-JUN-10	15

9 rows selected.

```
SQL> SELECT * FROM SampleFK03_2;
```

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SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
30	SAMPLE30	23-JUN-10	10
31	SAMPLE31	23-JUN-10	10
32	SAMPLE32	23-JUN-10	11
33	SAMPLE33	23-JUN-10	11
34	SAMPLE34	23-JUN-10	14
35	SAMPLE35	23-JUN-10	14
36	SAMPLE36	23-JUN-10	14
37	SAMPLE37	23-JUN-10	15

8 rows selected.

```
SQL> DELETE FROM SamplePK03
      2 WHERE SampID = 16;
```

1 row deleted.

```
SQL> DELETE FROM SamplePK03
      2 WHERE SampID = 12;
```

1 row deleted.

```
SQL> SELECT * FROM SamplePK03;
```

SAMPID	SAMPNAME	SAMPDATE
10	SAMPLE10	23-JUN-10
11	SAMPLE11	23-JUN-10
13	SAMPLE13	23-JUN-10
14	SAMPLE14	23-JUN-10
15	SAMPLE15	23-JUN-10

```
SQL> SELECT * FROM SampleFK03_1;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
20	SAMPLE20	23-JUN-10	10
21	SAMPLE21	23-JUN-10	10
22	SAMPLE22	23-JUN-10	10
25	SAMPLE25	23-JUN-10	13
26	SAMPLE26	23-JUN-10	13
27	SAMPLE27	23-JUN-10	13
28	SAMPLE28	23-JUN-10	15

7 rows selected.

```
SQL> DELETE FROM SamplePK03
      2 WHERE SampID = 14;
```

1 row deleted.

```
SQL> SELECT * FROM SampleFK03_2;
```

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SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
30	SAMPLE30	23-JUN-10	10
31	SAMPLE31	23-JUN-10	10
32	SAMPLE32	23-JUN-10	11
33	SAMPLE33	23-JUN-10	11
34	SAMPLE34	23-JUN-10	
35	SAMPLE35	23-JUN-10	
36	SAMPLE36	23-JUN-10	
37	SAMPLE37	23-JUN-10	15

8 rows selected.

```
SQL> DELETE FROM SamplePK03
2 WHERE SampID = 10;
```

1 row deleted.

```
SQL> SELECT * FROM SampleFK03_1;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
25	SAMPLE25	23-JUN-10	13
26	SAMPLE26	23-JUN-10	13
27	SAMPLE27	23-JUN-10	13
28	SAMPLE28	23-JUN-10	15

```
SQL> SELECT * FROM SampleFK03_2;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
30	SAMPLE30	23-JUN-10	
31	SAMPLE31	23-JUN-10	
32	SAMPLE32	23-JUN-10	11
33	SAMPLE33	23-JUN-10	11
34	SAMPLE34	23-JUN-10	
35	SAMPLE35	23-JUN-10	
36	SAMPLE36	23-JUN-10	
37	SAMPLE37	23-JUN-10	15

8 rows selected.

```
SQL> cl scr
```

```
SQL> CREATE TABLE SamplePK04Self
2 (
3   SampID NUMBER(2)
4   CONSTRAINT SamplePK04Self_SampIDPK PRIMARY KEY,
5   SampName VARCHAR2(10),
6   SampDate DATE,
7   SampIDFK NUMBER(2)
8   CONSTRAINT SamplePK04Self_SampIDFK
9   REFERENCES SamplePK04Self(SampID)
10  ON DELETE SET NULL
11 );
```

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Table created.

```
SQL> INSERT INTO SamplePK04Self
  2  VALUES(1, 'SAMPLE01', SYSDATE, NULL);
```

1 row created.

```
SQL> INSERT INTO SamplePK04Self
  2  VALUES(2, 'SAMPLE02', SYSDATE, 1);
```

1 row created.

```
SQL> ED
```

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```
  1  CREATE TABLE SamplePK04Self1
  2  (
  3    SampID NUMBER(2)
  4    CONSTRAINT SamplePK04Self1_SampIDPK PRIMARY KEY,
  5    SampName VARCHAR2(10),
  6    SampDate DATE,
  7    SampIDFK NUMBER(2)
  8    CONSTRAINT SamplePK04Self1_SampIDNN NOT NULL
  9    CONSTRAINT SamplePK04Self1_SampIDFK
 10    REFERENCES SamplePK04Self1(SampID)
 11    ON DELETE CASCADE
 12* )
SQL> /
```

Table created.

```
SQL> INSERT INTO SamplePK04Self1
  2  VALUES(1, 'SAMPLE01', SYSDATE, NULL);
VALUES(1, 'SAMPLE01', SYSDATE, NULL)
      *
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLEPK04SELF1"."SAMPIDFK")

```
SQL> INSERT INTO SamplePK04Self1
  2  VALUES(1, 'SAMPLE01', SYSDATE, 1);
```

1 row created.

```
SQL> INSERT INTO SamplePK04Self1
  2  VALUES(2, 'SAMPLE02', SYSDATE, 1);
```

1 row created.

```
SQL> cl scr
```

```
SQL> SELECT * FROM TAB;
```

TNAME

TABTYPE CLUSTERID

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```
-----  
DEPT                TABLE  
EMP                 TABLE  
BONUS              TABLE  
SALGRADE           TABLE  
DUMMY              TABLE  
CUSTOMER           TABLE  
ORD                TABLE  
ITEM               TABLE  
PRODUCT            TABLE  
PRICE              TABLE  
EMPLOYEES          VIEW
```

```
TNAME                TABTYPE  CLUSTERID  
-----  
EMPINFO              VIEW  
EMPGRADES            VIEW  
EMPMANAGERS          VIEW  
EMPACCOUNTS          VIEW  
CUMSUM               VIEW  
ORGDESIGNATIONS      VIEW  
SALES                VIEW  
MYDEPT              TABLE  
MYEMP                TABLE  
SAMPLEPK01           TABLE  
SAMPLEFK01           TABLE
```

```
TNAME                TABTYPE  CLUSTERID  
-----  
SAMPLEPK02           TABLE  
SAMPLEFK02           TABLE  
SAMPLEPK03           TABLE  
SAMPLEFK03_1         TABLE  
SAMPLEFK03_2         TABLE  
SAMPLEPK04SELF       TABLE  
SAMPLEPK04SELF1     TABLE
```

29 rows selected.

SQL> cl scr

```
SQL> CREATE TABLE SamplePK04  
 2 (   
 3   SampID NUMBER(2)  
 4   CONSTRAINT SamplePK04_SampID_PK PRIMARY KEY,  
 5   SampName VARCHAR2(10),  
 6   SampDate DATE  
 7 );
```

Table created.

```
SQL> CREATE TABLE SampleFK04  
 2 (   
 3   SampID NUMBER(2)  
 4   CONSTRAINT SampleFK04_SampID_FK
```

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```
5 REFERENCES SamplePK04(SampID),
6 SampName VARCHAR2(10),
7 SampDate DATE,
8 CONSTRAINT SampleFK04_SampID_PK
9 PRIMARY KEY(SampID)
10 );
```

Table created.

```
SQL> CREATE TABLE SampleFK04_1
2 (
3 SampID NUMBER(2)
4 CONSTRAINT SampleFK04_1_SampID_FK
5 REFERENCES SampleFK04(SampID),
6 SampName VARCHAR2(10)
7 );
```

Table created.

```
SQL> cl scr
```

```
SQL> CREATE TABLE SampleCKPK01
2 (
3 SampID NUMBER(2)
4 ,SampName VARCHAR2(10)
5 ,SampDate DATE
6 ,CONSTRAINT SampleCKPK01_SampIDName_CKPK
7 PRIMARY KEY(SampID, SampName)
8 );
```

Table created.

```
SQL> CREATE TABLE SampleCKFK01
2 (
3 SampID NUMBER(2),
4 SampName VARCHAR2(10),
5 SampDate DATE,
6 CONSTRAINT SampleCKFK01_SampIDNameCKFK
7 FOREIGN KEY(SampID, SampName)
8 REFERENCES SampleCKPK01(SampID, SampName)
9 );
```

Table created.

```
SQL> cl scr
```

```
SQL> CREATE TABLE SamplePKUNQ
2 (
3 SampIDPK NUMBER(2)
4 CONSTRAINT SamplePKUNQ_SampIDPK_PK PRIMARY KEY,
5 SampIDUNQ1 NUMBER(2)
6 CONSTRAINT SamplePKUNQ_SampIDUNQ_UNQ UNIQUE,
7 SampDate DATE
8 );
```


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Table created.

```
SQL> CREATE TABLE SampleFK
 2  (
 3  SampIDFKPK NUMBER(2)
 4  CONSTRAINT SampleFK_SampIDFKPK_FK
 5  REFERENCES SamplePKUNQ(SampIDPK),
 6  SampIDFKUNQ NUMBER(2)
 7  CONSTRAINT SampleFK_SampIDFKUNQ_FK
 8  REFERENCES SamplePKUNQ(SampIDUNQ1)
 9  );
```

Table created.

```
SQL> SPOOL OFF
SQL> cl scr
```

```
SQL> CREATE TABLE MyDept
 2  (
 3  Deptno NUMBER(2)
 4  CONSTRAINT MyDept_Deptno_PK PRIMARY KEY
 5  CONSTRAINT MyDept_Deptno_CHK01
 6  CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
 7  DName VARCHAR2(16)
 8  CONSTRAINT MyDept_DName_NN NOT NULL
 9  DEFAULT 'NOT GIVEN'
10  CONSTRAINT MyDept_DName_UNQ UNIQUE
11  CONSTRAINT MyDept_DName_CHK01
12  CHECK(DName = UPPER(DName)),
13  Loc VARCHAR2(14)
14  CONSTRAINT MyDept_Loc_NN NOT NULL
15  DEFAULT 'NOT GIVEN'
16  CONSTRAINT MyDept_Loc_CHK01
17  CHECK(Loc IN('NEW YORK', 'BOSTON', 'CHICAGO', 'DALLAS'))
18  );
DEFAULT 'NOT GIVEN'
*
```

```
ERROR at line 9:
ORA-00907: missing right parenthesis
```

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

```
 1  CREATE TABLE MyDept
 2  (
 3  Deptno NUMBER(2)
 4  CONSTRAINT MyDept_Deptno_PK PRIMARY KEY
 5  CONSTRAINT MyDept_Deptno_CHK01
 6  CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
 7  DName VARCHAR2(16)
 8  CONSTRAINT MyDept_DName_NN NOT NULL
 9  DEFAULT 'NOT GIVEN')
10  CONSTRAINT MyDept_DName_UNQ UNIQUE
11  CONSTRAINT MyDept_DName_CHK01
```

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```
12 CHECK(DName = UPPER(DName)),
13 Loc VARCHAR2(14)
14 CONSTRAINT MyDept_Loc_NN NOT NULL
15 DEFAULT 'NOT GIVEN'
16 CONSTRAINT MyDept_Loc_CHK01
17 CHECK(Loc IN('NEW YORK', 'BOSTON', 'CHICAGO', 'DALLAS'))
18* )
SQL> /
DEFAULT 'NOT GIVEN')
*
ERROR at line 9:
ORA-00907: missing right parenthesis
```

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

```
1 CREATE TABLE MyDept
2 (
3 Deptno NUMBER(2)
4 CONSTRAINT MyDept_Deptno_PK PRIMARY KEY
5 CONSTRAINT MyDept_Deptno_CHK01
6 CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
7 DName VARCHAR2(16)
8 CONSTRAINT MyDept_DName_NN NOT NULL
9 (DEFAULT 'NOT GIVEN')
10 CONSTRAINT MyDept_DName_UNQ UNIQUE
11 CONSTRAINT MyDept_DName_CHK01
12 CHECK(DName = UPPER(DName)),
13 Loc VARCHAR2(14)
14 CONSTRAINT MyDept_Loc_NN NOT NULL
15 DEFAULT 'NOT GIVEN'
16 CONSTRAINT MyDept_Loc_CHK01
17 CHECK(Loc IN('NEW YORK', 'BOSTON', 'CHICAGO', 'DALLAS'))
18* )
SQL> /
(DEFAULT 'NOT GIVEN')
*
ERROR at line 9:
ORA-00907: missing right parenthesis
```

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

```
1 CREATE TABLE MyDept
2 (
3 Deptno NUMBER(2)
4 CONSTRAINT MyDept_Deptno_PK PRIMARY KEY
5 CONSTRAINT MyDept_Deptno_CHK01
6 CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
7 DName VARCHAR2(16)
8 DEFAULT 'NOT GIVEN'
9 CONSTRAINT MyDept_DName_NN NOT NULL
10 CONSTRAINT MyDept_DName_UNQ UNIQUE
```

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```
11 CONSTRAINT MyDept_DName_CHK01
12 CHECK(DName = UPPER(DName)),
13 Loc VARCHAR2(14)
14 CONSTRAINT MyDept_Loc_NN NOT NULL
15 DEFAULT 'NOT GIVEN'
16 CONSTRAINT MyDept_Loc_CHK01
17 CHECK(Loc IN('NEW YORK', 'BOSTON', 'CHICAGO', 'DALLAS'))
18* )
SQL> /
DEFAULT 'NOT GIVEN'
*
ERROR at line 15:
ORA-00907: missing right parenthesis
```

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

```
1 CREATE TABLE MyDept
2 (
3 Deptno NUMBER(2)
4 CONSTRAINT MyDept_Deptno_PK PRIMARY KEY
5 CONSTRAINT MyDept_Deptno_CHK01
6 CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
7 DName VARCHAR2(16)
8 DEFAULT 'Not Given'
9 CONSTRAINT MyDept_DName_NN NOT NULL
10 CONSTRAINT MyDept_DName_UNQ UNIQUE
11 CONSTRAINT MyDept_DName_CHK01
12 CHECK(DName = UPPER(DName)),
13 Loc VARCHAR2(14)
14 DEFAULT 'NOT GIVEN'
15 CONSTRAINT MyDept_Loc_NN NOT NULL
16 CONSTRAINT MyDept_Loc_CHK01
17 CHECK(Loc IN('NEW YORK', 'BOSTON', 'CHICAGO', 'DALLAS'))
18* )
SQL> /
```

Table created.

```
SQL> INSERT INTO MyDept
2 VALUES(1, 'ACCOUNTING', 'NEW YORK');
INSERT INTO MyDept
*
ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_DEPTNO_CHK01) violated
```

```
SQL> INSERT INTO MyDept
2 VALUES(10, 'ACCOUNTING', 'NEW YORK');

1 row created.
```

```
SQL> INSERT INTO MyDept
2 VALUES(11, 'ACCOUNTING', 'NEW YORK');
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
INSERT INTO MyDept
*
ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_DEPTNO_CHK01) violated
```

```
SQL> INSERT INTO MyDept
  2  VALUES(20, 'ACCOUNTING', 'NEW YORK');
INSERT INTO MyDept
*
ERROR at line 1:
ORA-00001: unique constraint (SCOTT.MYDEPT_DNAME_UNQ) violated
```

```
SQL> INSERT INTO MyDept
  2  VALUES(20, 'RESEARCH', 'BOSTON');

1 row created.
```

```
SQL> INSERT INTO MyDept
  2  VALUES(30, 'SALES', 'Chicago');
INSERT INTO MyDept
*
ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_LOC_CHK01) violated
```

```
SQL> INSERT INTO MyDept
  2  VALUES(30, 'SALES', 'CHICAGO');

1 row created.
```

```
SQL> INSERT INTO MyDept
  2  VALUES(40, 'OPERATIONS');
INSERT INTO MyDept
*
ERROR at line 1:
ORA-00947: not enough values
```

```
SQL> INSERT INTO MyDept(Deptno, Loc)
  2  VALUES(50, 'BOSTON');
INSERT INTO MyDept(Deptno, Loc)
*
ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_DNAME_CHK01) violated
```

```
SQL> INSERT INTO MyDept(Deptno, DName)
  2  VALUES(40, 'OPEARTIONS');
INSERT INTO MyDept(Deptno, DName)
*
ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_LOC_CHK01) violated
```

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```
1 INSERT INTO MyDept(Deptno, DName)
2* VALUES(40, 'OPEARTIONS')
SQL> DROP TABLE MyDept;
```

Table dropped.

SQL> ED

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```
1 CREATE TABLE MyDept
2 (
3   Deptno NUMBER(2)
4   CONSTRAINT MyDept_Deptno_PK PRIMARY KEY
5   CONSTRAINT MyDept_Deptno_CHK01
6   CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
7   DName VARCHAR2(16)
8   DEFAULT 'NOT GIVEN'
9   CONSTRAINT MyDept_DName_NN NOT NULL
10  CONSTRAINT MyDept_DName_UNQ UNIQUE
11  CONSTRAINT MyDept_DName_CHK01
12  CHECK(DName = UPPER(DName)),
13  Loc VARCHAR2(14)
14  DEFAULT 'NOT GIVEN'
15  CONSTRAINT MyDept_Loc_NN NOT NULL
16  CONSTRAINT MyDept_Loc_CHK01
17  CHECK(Loc IN('NEW YORK', 'BOSTON', 'CHICAGO', 'DALLAS', 'NOT GIVEN'))
18* )
SQL> /
```

Table created.

```
SQL> INSERT INTO MyDept(Deptno, DName)
2 VALUES(10, 'OPERATIONS');
```

1 row created.

```
SQL> INSERT INTO MyDept(Deptno, Loc)
2 VALUES(20, 'BOSTON');
```

1 row created.

```
SQL> SELECT * FROM MyDept;
```

DEPTNO	DNAME	LOC
10	OPERATIONS	NOT GIVEN
20	NOT GIVEN	BOSTON

```
SQL> INSERT INTO MyDept(Deptno, DName)
2 VALUES(30, 'ACCOUNTING');
```

Spool Generated For Class of Oracle By Satish K Yellanki

1 row created.

```
SQL> SELECT * FROM MyDept;
```

DEPTNO	DNAME	LOC
10	OPERATIONS	NOT GIVEN
20	NOT GIVEN	BOSTON
30	ACCOUNTING	NOT GIVEN

```
SQL> INSERT INTO MyDept(Deptno, DName)
2
```

```
SQL> INSERT INTO MyDept(Deptno, Loc)
2 VALUES(40, 'CHICAGO');
```

```
INSERT INTO MyDept(Deptno, Loc)
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.MYDEPT_DNAME_UNQ) violated

```
SQL> cl scr
```

```
SQL> CREATE TABLE MyEmp
```

```
2 (
3   Empno NUMBER(4)
4   CONSTRAINT MyEmp_Empno_PK PRIMARY KEY
5   CONSTRAINT MyEmp_Empno_CHK01
6   CHECK(Empno >= 1000 AND Empno <= 4000),
7   Ename VARCHAR2(10)
8   DEFAULT 'NOT GIVEN'
9   CONSTRAINT MyEmp_Ename_NN NOT NULL
10  CONSTRAINT MyEmp_Ename_CHK01
11  CHECK(EName = UPPER(EName)),
12  Job VARCHAR2(14)
13  DEFAULT 'NOT GIVEN'
14  CONSTRAINT MyEmp_Job_NN NOT NULL
15  CONSTRAINT MyEmp_Job_CHK01
16  CHECK(Job IN('PRESIDENT', 'MANAGER', 'ANALYST', 'SALESMAN', 'CLERK', 'NOT
GIVEN')),
17  MGR NUMBER(4)
18  CONSTRAINT MyEmp_MGR_CHK01
19  CHECK(MGR >= 1000 AND MGR <= 4000),
20  Sal NUMBER(7, 2)
21  CONSTRAINT MyEmp_Sal_NN NOT NULL
22  CONSTRAINT MyEmp_Sal_CHK01
23  CHECK(Sal BETWEEN 1000 AND 90000),
24  Comm NUMBER(7, 2),
25  HireDate DATE
26  DEFAULT SYSDATE
27  CONSTRAINT MyEmp_HireDate_NN NOT NULL,
28  Deptno NUMBER(2)
29  CONSTRAINT MyEmp_Deptno_NN NOT NULL
30  CONSTRAINT MyEmp_Deptno_CHK
31  CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90))
32  CONSTRAINT MyEmp_Deptno_FK
```

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```
33 REFERENCES MyDept(Deptno),
34 CONSTRAINT MyEmpSalAndComm_CHK
35 CHECK(Sal + NVL(Comm, 0) <= 90000)
36 );
CONSTRAINT MyEmp_Deptno_FK
*
```

ERROR at line 32:

ORA-02253: constraint specification not allowed here

SQL> ED

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```
1 CREATE TABLE MyEmp
2 (
3   Empno NUMBER(4)
4   CONSTRAINT MyEmp_Empno_PK PRIMARY KEY
5   CONSTRAINT MyEmp_Empno_CHK01
6   CHECK(Empno >= 1000 AND Empno <= 4000),
7   Ename VARCHAR2(10)
8   DEFAULT 'NOT GIVEN'
9   CONSTRAINT MyEmp_Ename_NN NOT NULL
10  CONSTRAINT MyEmp_Ename_CHK01
11  CHECK(EName = UPPER(EName)),
12  Job VARCHAR2(14)
13  DEFAULT 'NOT GIVEN'
14  CONSTRAINT MyEmp_Job_NN NOT NULL
15  CONSTRAINT MyEmp_Job_CHK01
16  CHECK(Job IN('PRESIDENT', 'MANAGER', 'ANALYST', 'SALESMAN', 'CLERK', 'NOT
GIVEN')),
17  MGR NUMBER(4)
18  CONSTRAINT MyEmp_MGR_CHK01
19  CHECK(MGR >= 1000 AND MGR <= 4000),
20  Sal NUMBER(7, 2)
21  CONSTRAINT MyEmp_Sal_NN NOT NULL
22  CONSTRAINT MyEmp_Sal_CHK01
23  CHECK(Sal BETWEEN 1000 AND 90000),
24  Comm NUMBER(7, 2),
25  HireDate DATE
26  DEFAULT SYSDATE
27  CONSTRAINT MyEmp_HireDate_NN NOT NULL,
28  Deptno NUMBER(2)
29  CONSTRAINT MyEmp_Deptno_NN NOT NULL
30  CONSTRAINT MyEmp_Deptno_FK
31  REFERENCES MyDept(Deptno)
32  CONSTRAINT MyEmp_Deptno_CHK
33  CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
34  CONSTRAINT MyEmpSalAndComm_CHK
35  CHECK(Sal + NVL(Comm, 0) <= 90000)
36* )
SQL> /
CONSTRAINT MyEmp_Deptno_FK
*
```

ERROR at line 30:

ORA-02253: constraint specification not allowed here

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Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 CREATE TABLE MyEmp
2 (
3   Empno NUMBER(4)
4   CONSTRAINT MyEmp_Empno_PK PRIMARY KEY
5   CONSTRAINT MyEmp_Empno_CHK01
6   CHECK(Empno >= 1000 AND Empno <= 4000),
7   Ename VARCHAR2(10)
8   DEFAULT 'NOT GIVEN'
9   CONSTRAINT MyEmp_Ename_NN NOT NULL
10  CONSTRAINT MyEmp_Ename_CHK01
11  CHECK(EName = UPPER(EName)),
12  Job VARCHAR2(14)
13  DEFAULT 'NOT GIVEN'
14  CONSTRAINT MyEmp_Job_NN NOT NULL
15  CONSTRAINT MyEmp_Job_CHK01
16  CHECK(Job IN('PRESIDENT', 'MANAGER', 'ANALYST', 'SALESMAN', 'CLERK', 'NOT
GIVEN')),
17  MGR NUMBER(4)
18  CONSTRAINT MyEmp_MGR_CHK01
19  CHECK(MGR >= 1000 AND MGR <= 4000),
20  Sal NUMBER(7, 2)
21  CONSTRAINT MyEmp_Sal_NN NOT NULL
22  CONSTRAINT MyEmp_Sal_CHK01
23  CHECK(Sal BETWEEN 1000 AND 90000),
24  Comm NUMBER(7, 2),
25  HireDate DATE
26  DEFAULT SYSDATE
27  CONSTRAINT MyEmp_HireDate_NN NOT NULL,
28  Deptno NUMBER(2)
29  CONSTRAINT MyEmp_Deptno_NN NOT NULL
30  CONSTRAINT MyEmp_Deptno_FK
31  REFERENCES MyDept(Deptno),
32  CONSTRAINT MyEmpSalAndComm_CHK
33  CHECK(Sal + NVL(Comm, 0) <= 90000)
34* )
```

SQL> /

```
CONSTRAINT MyEmp_Deptno_FK
```

*

ERROR at line 30:

ORA-02253: constraint specification not allowed here

SQL> ED

Wrote file afiedt.buf

```
1 CREATE TABLE MyEmp
2 (
3   Empno NUMBER(4)
4   CONSTRAINT MyEmp_Empno_PK PRIMARY KEY
5   CONSTRAINT MyEmp_Empno_CHK01
```

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```
6 CHECK(Empno >= 1000 AND Empno <= 4000),
7 Ename VARCHAR2(10)
8 DEFAULT 'NOT GIVEN'
9 CONSTRAINT MyEmp_Ename_NN NOT NULL
10 CONSTRAINT MyEmp_Ename_CHK01
11 CHECK(EName = UPPER(EName)),
12 Job VARCHAR2(14)
13 DEFAULT 'NOT GIVEN'
14 CONSTRAINT MyEmp_Job_NN NOT NULL
15 CONSTRAINT MyEmp_Job_CHK01
16 CHECK(Job IN('PRESIDENT', 'MANAGER', 'ANALYST', 'SALESMAN', 'CLERK', 'NOT
GIVEN')),
17 MGR NUMBER(4)
18 CONSTRAINT MyEmp_MGR_CHK01
19 CHECK(MGR >= 1000 AND MGR <= 4000),
20 Sal NUMBER(7, 2)
21 CONSTRAINT MyEmp_Sal_NN NOT NULL
22 CONSTRAINT MyEmp_Sal_CHK01
23 CHECK(Sal BETWEEN 1000 AND 90000),
24 Comm NUMBER(7, 2),
25 HireDate DATE
26 DEFAULT SYSDATE
27 CONSTRAINT MyEmp_HireDate_NN NOT NULL,
28 Deptno NUMBER(2)
29 CONSTRAINT MyEmp_Deptno_NN NOT NULL
30 CONSTRAINT MyEmp_Deptno_FK
31 REFERENCES MyDept(Deptno)
32 CONSTRAINT MyEmp_Deptno_CHK
33 CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
34 CONSTRAINT MyEmpSalAndComm_CHK
35 CHECK(Sal + NVL(Comm, 0) <= 90000)
36* )
SQL> /
```

Table created.

```
SQL> ALTER TABLE MyEmp
2 ADD
3 (
4 CONSTRAINT MyEmp_MGR_FK
5 FOREIGN KEY(MGR)
6 REFERENCES MyEmp(Empno)
7 ON DELETE SET NULL
8 );
```

Table altered.

```
SQL> cl scr
```

```
SQL> CREATE TABLE SampleALT
2 (
3 SampID NUMBER(2),
4 SampName VARCHAR2(10),
5 SampDate DATE
6 );
```

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Table created.

```
SQL> ALTER TABLE SampleALT
  2  ADD(
  3
SQL> ALTER TABLE SampleALT
  2  ADD
  3  (
  4  CONSTRAINT SampleALT_SampID_PK
  5  PRIMARY KEY(SampID),
  6  CONSTRAINT SampleALT_SampID_CHK
  7  CHECK(SampID >= 10),
  8  CONSTRAINT SampleALT_SampName_CHK
  9  CHECK(SampName = UPPER(SampName))
 10 );
```

Table altered.

```
SQL> cl scr
```

```
SQL> DESC USER_CONSTRAINTS
```

Name	Null?	Type
OWNER	NOT NULL	VARCHAR2(30)
CONSTRAINT_NAME	NOT NULL	VARCHAR2(30)
CONSTRAINT_TYPE		VARCHAR2(1)
TABLE_NAME	NOT NULL	VARCHAR2(30)
SEARCH_CONDITION		LONG
R_OWNER		VARCHAR2(30)
R_CONSTRAINT_NAME		VARCHAR2(30)
DELETE_RULE		VARCHAR2(9)
STATUS		VARCHAR2(8)
DEFERRABLE		VARCHAR2(14)
DEFERRED		VARCHAR2(9)
VALIDATED		VARCHAR2(13)
GENERATED		VARCHAR2(14)
BAD		VARCHAR2(3)
RELY		VARCHAR2(4)
LAST_CHANGE		DATE
INDEX_OWNER		VARCHAR2(30)
INDEX_NAME		VARCHAR2(30)
INVALID		VARCHAR2(7)
VIEW_RELATED		VARCHAR2(14)

```
SQL> COLUMN CONSTRAINT_NAME FORMAT A20
```

```
SQL> COLUMN TABLE_NAME FORMAT A15
```

```
SQL> COLUMN SEARCH_CONDITION FORMAT A25
```

```
SQL> SELECT CONSTRAINT_NAME, CONSTRAINT_TYPE, TABLE_NAME, SEARCH_CONDITION
  2  FROM USER_CONSTRAINTS
  3  WHERE TABLE_NAME = 'SAMPLEALT';
```

CONSTRAINT_NAME	C	TABLE_NAME	SEARCH_CONDITION
SAMPLEALT_SAMPID_PK	P	SAMPLEALT	

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```
SAMPLEALT_SAMPID_CHK C SAMPLEALT      SampID >= 10
SAMPLEALT_SAMPNAME_C C SAMPLEALT      SampName = UPPER(SampName
HK                                     )
```

```
SQL> DESC USER_CONS_COLUMNS
ERROR:
ORA-04043: object USER_CONS_COLUMNS does not exist
```

```
SQL> DESC USER_CONS_COLUMNS
Name                               Null?    Type
-----
OWNER                               NOT NULL VARCHAR2(30)
CONSTRAINT_NAME                     NOT NULL VARCHAR2(30)
TABLE_NAME                           NOT NULL VARCHAR2(30)
COLUMN_NAME                           VARCHAR2(4000)
POSITION                             NUMBER
```

```
SQL> DESC MYEmp
Name                               Null?    Type
-----
EMPNO                               NOT NULL NUMBER(4)
ENAME                               NOT NULL VARCHAR2(10)
JOB                                 NOT NULL VARCHAR2(14)
MGR                                 NUMBER(4)
SAL                                 NOT NULL NUMBER(7,2)
COMM                                NUMBER(7,2)
HIREDATE                             NOT NULL DATE
DEPTNO                               NOT NULL NUMBER(2)
```

```
SQL> SELECT CONSTRAINT_NAME, CONSTRAINT_TYPE, TABLE_NAME, SEARCH_CONDITION
2 FROM USER_CONSTRAINTS
3 WHERE TABLE_NAME = 'MYEMP';
```

CONSTRAINT_NAME	C	TABLE_NAME	SEARCH_CONDITION
MYEMP_ENAME_NN	C	MYEMP	"ENAME" IS NOT NULL
MYEMP_JOB_NN	C	MYEMP	"JOB" IS NOT NULL
MYEMP_SAL_NN	C	MYEMP	"SAL" IS NOT NULL
MYEMP_HIREDATE_NN	C	MYEMP	"HIREDATE" IS NOT NULL
MYEMP_DEPTNO_NN	C	MYEMP	"DEPTNO" IS NOT NULL
MYEMP_EMPNO_CHK01	C	MYEMP	Empno >= 1000 AND Empno <= 4000
MYEMP_ENAME_CHK01	C	MYEMP	ENAME = UPPER(ENAME)
MYEMP_JOB_CHK01	C	MYEMP	Job IN('PRESIDENT', 'MANAGER', 'ANALYST', 'SALESMA
CONSTRAINT_NAME	C	TABLE_NAME	SEARCH_CONDITION
			N', 'CLERK', 'NOT GIVEN')
MYEMP_MGR_CHK01	C	MYEMP	MGR >= 1000 AND MGR <= 4000

Spool Generated For Class of Oracle By Satish K Yellanki

```

MYEMP_SAL_CHK01      C MYEMP      Sal BETWEEN 1000 AND 9000
                                0

MYEMP_DEPTNO_CHK    C MYEMP      Deptno IN(10, 20, 30, 40,
                                50, 60, 70, 80, 90)

CONSTRAINT_NAME      C TABLE_NAME  SEARCH_CONDITION
-----
MYEMPSALANDCOMM_CHK C MYEMP      Sal + NVL(Comm, 0) <= 900
                                00

MYEMP_EMPNO_PK      P MYEMP
MYEMP_DEPTNO_FK     R MYEMP
MYEMP_MGR_FK        R MYEMP

```

15 rows selected.

SQL> cl scr

SQL> DESC USER_CONSTRAINTS

Name	Null?	Type
OWNER	NOT NULL	VARCHAR2(30)
CONSTRAINT_NAME	NOT NULL	VARCHAR2(30)
CONSTRAINT_TYPE		VARCHAR2(1)
TABLE_NAME	NOT NULL	VARCHAR2(30)
SEARCH_CONDITION		LONG
R_OWNER		VARCHAR2(30)
R_CONSTRAINT_NAME		VARCHAR2(30)
DELETE_RULE		VARCHAR2(9)
STATUS		VARCHAR2(8)
DEFERRABLE		VARCHAR2(14)
DEFERRED		VARCHAR2(9)
VALIDATED		VARCHAR2(13)
GENERATED		VARCHAR2(14)
BAD		VARCHAR2(3)
RELY		VARCHAR2(4)
LAST_CHANGE		DATE
INDEX_OWNER		VARCHAR2(30)
INDEX_NAME		VARCHAR2(30)
INVALID		VARCHAR2(7)
VIEW_RELATED		VARCHAR2(14)

SQL> DESC USER_CONS_COLUMNS

Name	Null?	Type
OWNER	NOT NULL	VARCHAR2(30)
CONSTRAINT_NAME	NOT NULL	VARCHAR2(30)
TABLE_NAME	NOT NULL	VARCHAR2(30)
COLUMN_NAME		VARCHAR2(4000)
POSITION		NUMBER

SQL> SPOOL OFF