

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

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(15)
8    CONSTRAINT MyDept_Dname_NN NOT NULL
9    CONSTRAINT MyDept_Dname_UNQ UNIQUE
10   CONSTRAINT MyDept_Dname_CHK01
11   CHECK(Dname = UPPER(Dname))
12   DEFAULT 'Not Given',
13   Loc VARCHAR2(15)
14   CONSTRAINT MyDept_Loc_NN NOT NULL
15   CONSTRAINT MyDept_Loc_CHK01
16   CHECK(Loc = UPPER(Loc))
17   CONSTRAINT MyDept_Loc_CHK02
18   CHECK
19   (
20   Loc IN
21     (
22       'NEW YORK',
23       'DALLAS',
24       'BOSTON',
25       'CHICAGO'
26     )
27   )
28   DEFAULT 'NOT GIVEN'
29   )
30   /
DEFAULT 'Not Given',
*
```

ERROR at line 12:
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(15)
8    CONSTRAINT MyDept_Dname_NN NOT NULL
9    CONSTRAINT MyDept_Dname_UNQ UNIQUE
```

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```
10  CONSTRAINT MyDept_Dname_CHK01
11  CHECK(Dname = UPPER(Dname))
12  DEFAULT 'Not Given'),
13  Loc VARCHAR2(15)
14  CONSTRAINT MyDept_Loc_NN NOT NULL
15  CONSTRAINT MyDept_Loc_CHK01
16  CHECK(Loc = UPPER(Loc))
17  CONSTRAINT MyDept_Loc_CHK02
18  CHECK
19  (
20  Loc IN
21  (
22      'NEW YORK',
23      'DALLAS',
24      'BOSTON',
25      'CHICAGO'
26  )
27  )
28  DEFAULT 'NOT GIVEN'
29* )
SQL> /
  DEFAULT 'Not Given'),
  *
```

ERROR at line 12:
ORA-00907: missing right parenthesis

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(15)
8      CONSTRAINT MyDept_Dname_NN NOT NULL
9      CONSTRAINT MyDept_Dname_UNQ UNIQUE
10     CONSTRAINT MyDept_Dname_CHK01
11     CHECK(Dname = UPPER(Dname))
12     DEFAULT ('Not Given'),
13     Loc VARCHAR2(15)
14     CONSTRAINT MyDept_Loc_NN NOT NULL
15     CONSTRAINT MyDept_Loc_CHK01
16     CHECK(Loc = UPPER(Loc))
17     CONSTRAINT MyDept_Loc_CHK02
18     CHECK
19     (
20     Loc IN
```

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```
21      (  
22      'NEW YORK',  
23      'DALLAS',  
24      'BOSTON',  
25      'CHICAGO'  
26      )  
27  )  
28  DEFAULT 'NOT GIVEN'  
29* )  
SQL> /  
  DEFAULT ('Not Given'),  
  *
```

ERROR at line 12:
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(15)  
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(15)  
14   CONSTRAINT MyDept_Loc_NN NOT NULL  
15   CONSTRAINT MyDept_Loc_CHK01  
16   CHECK(Loc = UPPER(Loc))  
17   CONSTRAINT MyDept_Loc_CHK02  
18   CHECK  
19   (  
20     Loc IN  
21     (  
22     'NEW YORK',  
23     'DALLAS',  
24     'BOSTON',  
25     'CHICAGO'  
26     )  
27   )  
28   DEFAULT 'NOT GIVEN'  
29* )  
SQL> /  
DEFAULT 'NOT GIVEN'
```

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*

ERROR at line 28:
ORA-00907: missing right parenthesis

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(15)
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(15)
14  DEFAULT 'NOT GIVEN'
15  CONSTRAINT MyDept_Loc_NN NOT NULL
16  CONSTRAINT MyDept_Loc_CHK01
17  CHECK(Loc = UPPER(Loc))
18  CONSTRAINT MyDept_Loc_CHK02
19  CHECK
20  (
21  Loc IN
22    (
23      'NEW YORK',
24      'DALLAS',
25      'BOSTON',
26      'CHICAGO'
27    )
28  )
29* )
SQL> /
```

Table created.

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

*

ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_DEPTNO_CHK01) violated

SQL> ED

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Wrote file afiedt.buf

```
1  INSERT INTO MyDept
2* VALUES(10, 'Shipping', 'NEW YORK')
SQL> /
INSERT INTO MyDept
*
ERROR at line 1:
ORA-02290: check constraint (SCOTT.MYDEPT_DNAME_CHK01) violated
```

SQL> SELECT * FROM Dept;

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

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

1 row created.

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

1 row created.

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

1 row created.

```
SQL> INSERT INTO MyDept
2  VALUES(40, 'OPERATIONS', 'BOSTON');
```

1 row created.

```
SQL> COMMIT;
```

Commit complete.

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

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS

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```
30 SALES          CHICAGO
40 OPERATIONS     BOSTON
```

```
SQL> INSERT INTO MyDept(Deptno, Loc)
2  VALUES(50, 'CHICAGO');
INSERT INTO MyDept(Deptno, Loc)
*
```

ERROR at line 1:

ORA-02290: check constraint (SCOTT.MYDEPT_DNAME_CHK01) violated

```
SQL> ALTER TABLE MyDept
2  MODIFY
3  (
4    Dname VARCHAR2(15)
5    DEFAULT 'NOT GIVEN'
6  );
```

Table altered.

```
SQL> INSERT INTO MyDept(Deptno, Loc)
2  VALUES(50, 'CHICAGO');
```

1 row created.

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

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	NOT GIVEN	CHICAGO

```
SQL> INSERT INTO MyDept(Deptno, Loc)
2  VALUES(60, 'DALLAS');
INSERT INTO MyDept(Deptno, Loc)
*
```

ERROR at line 1:

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

```
SQL> ALTER TABLE Dept
2  DROP PRIMARY KEY;
ALTER TABLE Dept
*
```

ERROR at line 1:

ORA-02273: this unique/primary key is referenced by some foreign keys

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```
SQL> ALTER TABLE Dept
  2  DROP PRIMARY KEY CASCADE;
```

Table altered.

```
SQL> ALTER TABLE MyDept
  2  DROP UNIQUE(Dname);
```

Table altered.

```
SQL> INSERT INTO MyDept(Deptno, Loc)
  2  VALUES(60, 'DALLAS');
```

1 row created.

```
SQL> INSERT INTO MyDept(Deptno, Dname)
  2  VALUES(70, 'SHIPPING');
INSERT INTO MyDept(Deptno, Dname)
*
```

ERROR at line 1:

ORA-02290: check constraint (SCOTT.MYDEPT_LOC_CHK02) violated

```
SQL> ALTER TABLE MyDept
  2  DROP CONSTRAINT MYDEPT_LOC_CHK02;
```

Table altered.

```
SQL> ALTER TABLE MyDept
  2  ADD
  3  CONSTRAINT MyDept_Loc_CHK02
  4  CHECK
  5  (
  6    Loc IN
  7    (
  8      'NEW YORK',
  9      'DALLAS',
 10      'BOSTON',
 11      'CHICAGO',
 12      'NOT GIVEN'
 13    )
 14 );
```

Table altered.

```
SQL> INSERT INTO MyDept(Deptno, Dname)
  2  VALUES(70, 'SHIPPING');
```

1 row created.

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```
SQL> CREATE TABLE MyEmp
 2  (
 3  Empno NUMBER(4)
 4  CONSTRAINT MyEmp_Empno_PK PRIMARY KEY
 5  CONSTRAINT MyEmp_Empno_CHK01
 6  CHECK(Empno BETWEEN 1000 AND 5000),
 7  Ename VARCHAR2(15)
 8  DEFAULT 'NOT GIVEN'
 9  CONSTRAINT MyEmp_Ename_NN NOT NULL
10  CONSTRAINT MyEmp_Ename_CHK01
11  CHECK(Ename = UPPER(Ename)),
12  Job VARCHAR2(15)
13  DEFAULT 'NOT GIVEN'
14  CONSTRAINT MyEmp_Job_NN NOT NULL
15  CONSTRAINT MyEmp_Job_CHK01
16  CHECK(Job = UPPER(Job))
17  CONSTRAINT MyEmp_Job_CHK02
18  CHECK
19  (
20  Job IN
21  (
22  'PRESIDENT',
23  'MANAGER',
24  'ANALYST',
25  'SALESMAN',
26  'CLERK',
27  'NOT GIVEN'
28  )
29  ),
30  Sal NUMBER(8, 2)
31  DEFAULT 1000
32  CONSTRAINT MyEmp_Sal_NN NOT NULL
33  CONSTRAINT MyEmp_Sal_CHK01
34  CHECK(Sal BETWEEN 500 75000),
35  Comm NUMBER(8, 2)
36  DEFAULT 0
37  CONSTRAINT MyEmp_Comm_CHK01
38  CHECK(Comm BETWEEN 0 AND 25000),
39  HireDate DATE
40  DEFAULT SYSDATE
41  CONSTRAINT MyEmp_HireDate_NN NOT NULL,
42  MGR NUMBER(4)
43  CONSTRAINT MyEmp_MGR_CHK01
44  CHECK(MGR BETWEEN 1000 AND 5000),
45  Deptno NUMBER(2)
46  DEFAULT 30
47  CONSTRAINT MyEmp_Deptno_NN NOT NULL
48  CONSTRAINT MyEmp_Deptno_CHK01
49  CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
```

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```
50 CONSTRAINT MyEmp_MGR_FK
51 FOREIGN KEY(MGR)
52 REFERENCES MyEmp(Empno)
53 ON DELETE SET NULL,
54 CONSTRAINT MyEmp_Deptno_FK
55 FOREIGN KEY(Deptno)
56 REFERENCES MyDept(Deptno)
57 ON DELETE CASCADE,
58 CONSTRAINT MyEmp_TotSal_CHK01
59 CHECK(Sal + NVL(Comm, 0) <= 100000)
60 );
CHECK(Sal BETWEEN 500 75000),
      *
```

ERROR at line 34:
ORA-00905: missing keyword

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 BETWEEN 1000 AND 5000),
7 Ename VARCHAR2(15)
8 DEFAULT 'NOT GIVEN'
9 CONSTRAINT MyEmp_Ename_NN NOT NULL
10 CONSTRAINT MyEmp_Ename_CHK01
11 CHECK(Ename = UPPER(Ename)),
12 Job VARCHAR2(15)
13 DEFAULT 'NOT GIVEN'
14 CONSTRAINT MyEmp_Job_NN NOT NULL
15 CONSTRAINT MyEmp_Job_CHK01
16 CHECK(Job = UPPER(Job))
17 CONSTRAINT MyEmp_Job_CHK02
18 CHECK
19 (
20 Job IN
21 (
22 'PRESIDENT',
23 'MANAGER',
24 'ANALYST',
25 'SALESMAN',
26 'CLERK',
27 'NOT GIVEN'
28 )
29 ),
30 Sal NUMBER(8, 2)
```

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```
31  DEFAULT 1000
32  CONSTRAINT MyEmp_Sal_NN NOT NULL
33  CONSTRAINT MyEmp_Sal_CHK01
34  CHECK(Sal BETWEEN 500 AND 75000),
35  Comm NUMBER(8, 2)
36  DEFAULT 0
37  CONSTRAINT MyEmp_Comm_CHK01
38  CHECK(Comm BETWEEN 0 AND 25000),
39  HireDate DATE
40  DEFAULT SYSDATE
41  CONSTRAINT MyEmp_HireDate_NN NOT NULL,
42  MGR NUMBER(4)
43  CONSTRAINT MyEmp_MGR_CHK01
44  CHECK(MGR BETWEEN 1000 AND 5000),
45  Deptno NUMBER(2)
46  DEFAULT 30
47  CONSTRAINT MyEmp_Deptno_NN NOT NULL
48  CONSTRAINT MyEmp_Deptno_CHK01
49  CHECK(Deptno IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),
50  CONSTRAINT MyEmp_MGR_FK
51  FOREIGN KEY(MGR)
52  REFERENCES MyEmp(Empno)
53  ON DELETE SET NULL,
54  CONSTRAINT MyEmp_Deptno_FK
55  FOREIGN KEY(Deptno)
56  REFERENCES MyDept(Deptno)
57  ON DELETE CASCADE,
58  CONSTRAINT MyEmp_TotSal_CHK01
59  CHECK(Sal + NVL(Comm, 0) <= 100000)
60* )
SQL> /
```

Table created.

```
SQL> cl scr
```

```
SQL> DESC USER_CONSTRAINTS
```

Name	Null?
Type	
OWNER	
VARCHAR2(30)	
CONSTRAINT_NAME	NOT
NULL VARCHAR2(30)	
CONSTRAINT_TYPE	
VARCHAR2(1)	
TABLE_NAME	NOT
NULL VARCHAR2(30)	

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```
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> COL CONSTRAINT_NAME FOR A18
SQL> COL CONSTYPE FOR A8
SQL> COL TABLE_NAME FOR A10
SQL> COL SEARCH_CONDITION FOR A50
SQL> COL DELETE_RULE FOR A12
SQL> SELECT TABLE_NAME, CONSTRAINT_NAME, CONSTRAINT_TYPE CONSTYPE,
SEARCH_CONDITION, DELETE_RULE
2 FROM USER_CONSTRAINTS
3 WHERE TABLE_NAME = 'MYDEPT';
```

TABLE_NAME	CONSTRAINT_NAME	CONSTYPE	SEARCH_CONDITION
MYDEPT	MYDEPT_DNAME_NN	C	"DNAME" IS NOT NULL
MYDEPT	MYDEPT_LOC_NN	C	"LOC" IS NOT NULL

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```
MYDEPT      MYDEPT_DEPTNO_CHK0 C      Deptno IN(10, 20, 30, 40, 50, 60,
70, 80, 90)
1
```

```
MYDEPT      MYDEPT_DNAME_CHK01 C      Dname = UPPER(Dname)
MYDEPT      MYDEPT_LOC_CHK01  C      Loc = UPPER(Loc)
MYDEPT      MYDEPT_LOC_CHK02  C
```

```
Loc IN
```

```
(
'NEW YORK',
'DALLAS',
'
```

```
MYDEPT      MYDEPT_DEPTNO_PK    P
```

7 rows selected.

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

```
1  SELECT TABLE_NAME, CONSTRAINT_NAME, CONSTRAINT_TYPE CONSTYPE,
SEARCH_CONDITION, DELETE_RULE
2  FROM USER_CONSTRAINTS
3* WHERE TABLE_NAME = 'MYEMP'
SQL> /
```

TABLE_NAME	CONSTRAINT_NAME	CONSTYPE	SEARCH_CONDITION	DELETE_RULE
------------	-----------------	----------	------------------	-------------

MYEMP	MYEMP_ENAME_NN	C	"ENAME" IS NOT NULL	
MYEMP	MYEMP_JOB_NN	C	"JOB" IS NOT NULL	
MYEMP	MYEMP_SAL_NN	C	"SAL" IS NOT NULL	
MYEMP	MYEMP_HIREDATE_NN	C	"HIREDATE" IS NOT NULL	
MYEMP	MYEMP_DEPTNO_NN	C	"DEPTNO" IS NOT NULL	
MYEMP	MYEMP_EMPNO_CHK01	C	Empno BETWEEN 1000 AND 5000	
MYEMP	MYEMP_ENAME_CHK01	C	Ename = UPPER(Ename)	
MYEMP	MYEMP_JOB_CHK01	C	Job = UPPER(Job)	
MYEMP	MYEMP_JOB_CHK02	C		

```
Job IN
```

```
(
'PRESIDENT',
'MANAGER',
'ANALYST',
'SALESMAN',
'CLERK',
```

TABLE_NAME	CONSTRAINT_NAME	CONSTYPE	SEARCH_CONDITION	DELETE_RULE
------------	-----------------	----------	------------------	-------------

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```
-----
-----
MYEMP      MYEMP_SAL_CHK01      C      Sal BETWEEN 500 AND 75000
MYEMP      MYEMP_COMM_CHK01   C      Comm BETWEEN 0 AND 25000
MYEMP      MYEMP_MGR_CHK01    C      MGR BETWEEN 1000 AND 5000
MYEMP      MYEMP_DEPTNO_CHK01 C      Deptno IN(10, 20, 30, 40, 50, 60,
70, 80, 90)
MYEMP      MYEMP_TOTSAL_CHK01 C      Sal + NVL(Comm, 0) <= 100000
MYEMP      MYEMP_EMPNO_PK     P
MYEMP      MYEMP_MGR_FK       R
SET NULL
MYEMP      MYEMP_DEPTNO_FK    R
CASCADE
```

17 rows selected.

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> COL COLUMN_NAME FOR A10

SQL> SELECT

```
 2  TABLE_NAME, COLUMN_NAME, CONSTRAINT_NAME
 3  FROM USER_CONS_COLUMNS
 4  WHERE TABLE_NAME = 'MYDEPT';
```

TABLE_NAME	COLUMN_NAM	CONSTRAINT_NAME
MYDEPT	DNAME	MYDEPT_DNAME_NN
MYDEPT	LOC	MYDEPT_LOC_NN
MYDEPT	DEPTNO	MYDEPT_DEPTNO_CHK01
MYDEPT	DNAME	MYDEPT_DNAME_CHK01
MYDEPT	LOC	MYDEPT_LOC_CHK01
MYDEPT	LOC	MYDEPT_LOC_CHK02
MYDEPT	DEPTNO	MYDEPT_DEPTNO_PK

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7 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  TABLE_NAME, COLUMN_NAME, CONSTRAINT_NAME
3  FROM USER_CONS_COLUMNS
4* WHERE TABLE_NAME = 'MYEMP'
SQL> /
```

TABLE_NAME	COLUMN_NAM	CONSTRAINT_NAME
MYEMP	ENAME	MYEMP_ENAME_NN
MYEMP	JOB	MYEMP_JOB_NN
MYEMP	SAL	MYEMP_SAL_NN
MYEMP	HIREDATE	MYEMP_HIREDATE_NN
MYEMP	DEPTNO	MYEMP_DEPTNO_NN
MYEMP	EMPNO	MYEMP_EMPNO_CHK01
MYEMP	ENAME	MYEMP_ENAME_CHK01
MYEMP	JOB	MYEMP_JOB_CHK01
MYEMP	JOB	MYEMP_JOB_CHK02
MYEMP	SAL	MYEMP_SAL_CHK01
MYEMP	COMM	MYEMP_COMM_CHK01
MYEMP	MGR	MYEMP_MGR_CHK01
MYEMP	DEPTNO	MYEMP_DEPTNO_CHK01
MYEMP	SAL	MYEMP_TOTSAL_CHK01
MYEMP	COMM	MYEMP_TOTSAL_CHK01
MYEMP	EMPNO	MYEMP_EMPNO_PK
MYEMP	MGR	MYEMP_MGR_FK

TABLE_NAME	COLUMN_NAM	CONSTRAINT_NAME
MYEMP	DEPTNO	MYEMP_DEPTNO_FK

18 rows selected.

SQL> SPOOL OFF

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Contact For Courses And Training in

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