

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> CREATE TABLE SampleSelf01
  2  (
  3    SampID NUMBER(2)
  4    CONSTRAINT SampleSelf01_SampID_PK PRIMARY KEY,
  5    SampName VARCHAR2(10),
  6    SampDate DATE,
  7    SampIDFK NUMBER(2)
  8    CONSTRAINT SampleSelf01_SampIDFK_FK
  9    REFERENCES SampleSelf01(SampID)
 10 );
```

Table created.

```
SQL> INSERT INTO SampleSelf01
  2  VALUES(1, 'SAMPLE01', SYSDATE, 5);
INSERT INTO SampleSelf01
*
```

ERROR at line 1:

ORA-02291: integrity constraint (SCOTT.SAMPLESELF01_SAMPIDFK_FK) violated
- parent key not found

```
SQL> INSERT INTO SampleSelf01
  2  VALUES(1, 'SAMPLE01', SYSDATE, NULL);
```

1 row created.

```
SQL> INSERT INTO SampleSelf01
  2  VALUES(2, 'SAMPLE02', SYSDATE, 1);
```

1 row created.

```
SQL> INSERT INTO SampleSelf01
  2  VALUES(3, 'SAMPLE03', SYSDATE, 1);
```

1 row created.

```
SQL> SELECT * FROM SampleSelf01;
```

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
1	SAMPLE01	15-APR-15	
2	SAMPLE02	15-APR-15	1
3	SAMPLE03	15-APR-15	1

```
SQL> ED
```

Wrote file afiedt.buf

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```
1 CREATE TABLE SampleSelf02
2 (
3   SampID NUMBER(2)
4   CONSTRAINT SampleSelf02_SampID_PK PRIMARY KEY,
5   SampName VARCHAR2(10),
6   SampDate DATE,
7   SampIDFK NUMBER(2)
8   CONSTRAINT SampleSelf02_SampIDFK_NN NOT NULL
9   CONSTRAINT SampleSelf02_SampIDFK_FK
10  REFERENCES SampleSelf02(SampID)
11* )
SQL> /
```

Table created.

```
SQL> INSERT INTO SampleSelf02
2 VALUES(1, 'SAMPLE01', SYSDATE, NULL);
VALUES(1, 'SAMPLE01', SYSDATE, NULL)
*
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLESELF02"."SAMPIDFK")

```
SQL> INSERT INTO SampleSelf02
2 VALUES(1, 'SAMPLE01', SYSDATE, 1);
```

1 row created.

```
SQL> INSERT INTO SampleSelf02
2 VALUES(2, 'SAMPLE02', SYSDATE, 1);
```

1 row created.

```
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),
```

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```
6 SampDate DATE,
7 SampIDFK NUMBER(2)
8 CONSTRAINT SampleFK01_SampIDFK_FK
9 REFERENCES SamplePK01(SampID)
10 ON DELETE SET NULL
11 );
```

Table created.

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

```
1 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_NN NOT NULL
9 CONSTRAINT SampleFK02_SampIDFK_FK
10 REFERENCES SamplePK01(SampID)
11 ON DELETE CASCADE
12* )
SQL> /
```

Table created.

```
SQL> BEGIN
2 INSERT INTO SamplePK01
3 VALUES(1, 'SAMPLE01', SYSDATE);
4 INSERT INTO SamplePK01
5 VALUES(2, 'SAMPLE02', SYSDATE);
6 INSERT INTO SamplePK01
7 VALUES(3, 'SAMPLE03', SYSDATE);
8 INSERT INTO SamplePK01
9 VALUES(4, 'SAMPLE04', SYSDATE);
10 INSERT INTO SamplePK01
11 VALUES(5, 'SAMPLE05', SYSDATE);
12 INSERT INTO SamplePK01
13 VALUES(6, 'SAMPLE06', SYSDATE);
14 INSERT INTO SamplePK01
15 VALUES(7, 'SAMPLE07', SYSDATE);
16 INSERT INTO SamplePK01
17 VALUES(8, 'SAMPLE08', SYSDATE);
18 COMMIT;
19 END;
20 /
```

PL/SQL procedure successfully completed.

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```
SQL> BEGIN
  2  INSERT INTO SampleFK01
  3  VALUES(10, 'SAMPLE10', SYSDATE, 1);
  4  INSERT INTO SampleFK01
  5  VALUES(11, 'SAMPLE11', SYSDATE, 1);
  6  INSERT INTO SampleFK01
  7  VALUES(12, 'SAMPLE12', SYSDATE, 1);
  8  INSERT INTO SampleFK01
  9  VALUES(13, 'SAMPLE13', SYSDATE, 4);
 10  INSERT INTO SampleFK01
 11  VALUES(14, 'SAMPLE14', SYSDATE, 4);
 12  INSERT INTO SampleFK01
 13  VALUES(15, 'SAMPLE15', SYSDATE, 7);
 14  INSERT INTO SampleFK01
 15  VALUES(16, 'SAMPLE16', SYSDATE, 7);
 16  INSERT INTO SampleFK01
 17  VALUES(17, 'SAMPLE17', SYSDATE, 7);
 18  COMMIT;
 19  END;
 20  /
```

PL/SQL procedure successfully completed.

```
SQL> BEGIN
  2  INSERT INTO SampleFK02
  3  VALUES(20, 'SAMPLE20', SYSDATE, 3);
  4  INSERT INTO SampleFK02
  5  VALUES(21, 'SAMPLE21', SYSDATE, 3);
  6  INSERT INTO SampleFK02
  7  VALUES(22, 'SAMPLE22', SYSDATE, 3);
  8  INSERT INTO SampleFK02
  9  VALUES(23, 'SAMPLE23', SYSDATE, 4);
 10  INSERT INTO SampleFK02
 11  VALUES(24, 'SAMPLE24', SYSDATE, 4);
 12  INSERT INTO SampleFK02
 13  VALUES(25, 'SAMPLE25', SYSDATE, 5);
 14  INSERT INTO SampleFK02
 15  VALUES(26, 'SAMPLE26', SYSDATE, 5);
 16  INSERT INTO SampleFK02
 17  VALUES(27, 'SAMPLE27', SYSDATE, 5);
 18  COMMIT;
 19  END;
 20  /
```

PL/SQL procedure successfully completed.

```
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```

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

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SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	15-APR-15
2	SAMPLE02	15-APR-15
3	SAMPLE03	15-APR-15
4	SAMPLE04	15-APR-15
5	SAMPLE05	15-APR-15
6	SAMPLE06	15-APR-15
7	SAMPLE07	15-APR-15
8	SAMPLE08	15-APR-15

8 rows selected.

SQL> SELECT * FROM SampleFK01;

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
10	SAMPLE10	15-APR-15	1
11	SAMPLE11	15-APR-15	1
12	SAMPLE12	15-APR-15	1
13	SAMPLE13	15-APR-15	4
14	SAMPLE14	15-APR-15	4
15	SAMPLE15	15-APR-15	7
16	SAMPLE16	15-APR-15	7
17	SAMPLE17	15-APR-15	7

8 rows selected.

SQL> SELECT * FROM SampleFK02;

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
20	SAMPLE20	15-APR-15	3
21	SAMPLE21	15-APR-15	3
22	SAMPLE22	15-APR-15	3
23	SAMPLE23	15-APR-15	4
24	SAMPLE24	15-APR-15	4
25	SAMPLE25	15-APR-15	5
26	SAMPLE26	15-APR-15	5
27	SAMPLE27	15-APR-15	5

8 rows selected.

SQL> DELETE FROM SamplePK01
2 WHERE SampID = 8;

1 row deleted.

SQL> SELECT * FROM SamplePK01;

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SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	15-APR-15
2	SAMPLE02	15-APR-15
3	SAMPLE03	15-APR-15
4	SAMPLE04	15-APR-15
5	SAMPLE05	15-APR-15
6	SAMPLE06	15-APR-15
7	SAMPLE07	15-APR-15

7 rows selected.

```
SQL> DELETE FROM SamplePK01
      2 WHERE SampID = 1;
```

1 row deleted.

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

SAMPID	SAMPNAME	SAMPDATE
2	SAMPLE02	15-APR-15
3	SAMPLE03	15-APR-15
4	SAMPLE04	15-APR-15
5	SAMPLE05	15-APR-15
6	SAMPLE06	15-APR-15
7	SAMPLE07	15-APR-15

6 rows selected.

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

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
10	SAMPLE10	15-APR-15	
11	SAMPLE11	15-APR-15	
12	SAMPLE12	15-APR-15	
13	SAMPLE13	15-APR-15	4
14	SAMPLE14	15-APR-15	4
15	SAMPLE15	15-APR-15	7
16	SAMPLE16	15-APR-15	7
17	SAMPLE17	15-APR-15	7

8 rows selected.

```
SQL> DELETE FROM SamplePK01
      2 WHERE SampID = 5;
```

1 row deleted.

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SQL> SELECT * FROM SamplePK01;

SAMPID	SAMPNAME	SAMPDATE
2	SAMPLE02	15-APR-15
3	SAMPLE03	15-APR-15
4	SAMPLE04	15-APR-15
6	SAMPLE06	15-APR-15
7	SAMPLE07	15-APR-15

SQL> SELECT * FROM SampleFK02;

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
20	SAMPLE20	15-APR-15	3
21	SAMPLE21	15-APR-15	3
22	SAMPLE22	15-APR-15	3
23	SAMPLE23	15-APR-15	4
24	SAMPLE24	15-APR-15	4

SQL> DELETE FROM SamplePK01
2 WHERE SampID = 4;

1 row deleted.

SQL> SELECT * FROM SamplePK01;

SAMPID	SAMPNAME	SAMPDATE
2	SAMPLE02	15-APR-15
3	SAMPLE03	15-APR-15
6	SAMPLE06	15-APR-15
7	SAMPLE07	15-APR-15

SQL> SELECT * FROM SampleFK01;

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
10	SAMPLE10	15-APR-15	
11	SAMPLE11	15-APR-15	
12	SAMPLE12	15-APR-15	
13	SAMPLE13	15-APR-15	
14	SAMPLE14	15-APR-15	
15	SAMPLE15	15-APR-15	7
16	SAMPLE16	15-APR-15	7
17	SAMPLE17	15-APR-15	7

8 rows selected.

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

SAMPID	SAMPNAME	SAMPDATE	SAMPIDFK
20	SAMPLE20	15-APR-15	3
21	SAMPLE21	15-APR-15	3
22	SAMPLE22	15-APR-15	3

```
SQL> cl scr
```

```
SQL> CREATE TABLE SampleCPK01
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10),
5   SampDate DATE,
6   CONSTRAINT SampleCPK01_SampIDName_CPK
7   PRIMARY KEY(SampID)
8 );
```

Table created.

```
SQL> DROP TABLE SampleCPK01 PURGE;
```

Table dropped.

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

```
1 CREATE TABLE SampleCPK01
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10),
5   SampDate DATE,
6   CONSTRAINT SampleCPK01_SampIDName_CPK
7   PRIMARY KEY(SampID, SampName)
8* )
SQL> /
```

Table created.

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

```
1 CREATE TABLE SampleCFK01
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(10),
5   SampDate DATE,
6   SampIDFK NUMBER(2),
7   SampNameFK VARCHAR2(10),
```

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```
8   CONSTRAINT SampleCPK02_SampID_PK
9   PRIMARY KEY(SampID),
10  CONSTRAINT SampleCPK02_SampIDNameCFK_FK
11  FOREIGN KEY(SampIDFK, SampNameFK)
12  REFERENCES SampleCPK01(SampID, SampName)
13* )
SQL> /
```

Table created.

SQL> SPPOOL OFF

Oracle By Sathish Yellanki (SkyEss)

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