```
SQL> CREATE TABLE SamplePK01
  2  (
  3  SampID NUMBER(2)
  4  CONSTRAINT SamplePK01_SampID_PK PRIMARY KEY,
  5  SampName VARCHAR2(15),
  6  SampDate DATE
  7  );

Table created.

SQL> DESC SamplePK01;
 Name                                                          Null?
Type
 ------------------------------------------------------------- ------
-- --------------------------------------------
 SAMPID                                                        NOT
NULL NUMBER(2)
 SAMPNAME
VARCHAR2(15)
 SAMPDATE
DATE

SQL> INSERT INTO SamplePK01
  2  VALUES(01, 'Sample01', SYSDATE);

1 row created.

SQL> INSERT INTO SamplePK01
  2  VALUES(01, '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> CREATE TABLE SamplePK02
  2  (
  3  SampID NUMBER(2),
  4  SampName VARCHAR2(15),
  5  SampDate DATE,
  6  CONSTRAINT SamplePK02_SampID_PK PRIMARY KEY(SampID) --Entity
Integrity is Confirmed
  7  );

Table created.
```

```
SQL> CREATE TABLE SamplePK03
  2  (
  3  SampID NUMBER(2)
  4  CONSTRAINT SamplePK03_SampID_PK PRIMARY KEY, --Entity Integrity is
Confirmed,
  5  SampName VARCHAR2(15)
  6  CONSTRAINT SamplePK03_SampID_PK PRIMARY KEY, --Generates An Error As
We Cannot Have Two Primary Key Declarations in One Table
  7  SampDate DATE
  8  );
CONSTRAINT SamplePK03_SampID_PK PRIMARY KEY, --Generates An Error As We
Cannot Have Two Primary Key Declarations in One Table
*
ERROR at line 6:
ORA-02260: table can have only one primary key


SQL> CREATE TABLE SamplePK03
  2  (
  3  SampID NUMBER(2)
  4  CONSTRAINT SamplePK03_SampID_PK PRIMARY KEY, --Entity Integrity is
Confirmed,
  5  SampName VARCHAR2(15)
  6  CONSTRAINT SamplePK03_SampID_NN NOT NULL
  7  CONSTRAINT SamplePK03_SampID_UNQ UNIQUE,
  8  SampDate DATE
  9  );

Table created.


SQL> --Behaviour of Parent And Child Records, While Deleting the Parental
Record which has dependent records And The Primary Key Column Values
Which are not having child Records--
SQL>
SQL> SELECT * FROM DEPT;

    DEPTNO DNAME          LOC
---------- -------------- -------------
        40 OPERATIONS     BOSTON
        50 SHIPPING       Not Confirmed
        10 ACCOUNTING     NEW YORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO

SQL> DELETE FROM DEPT WHERE DEPTNO = 50;

1 row deleted.

SQL> COMMIT;

Commit complete.
```

```
SQL> SELECT * FROM EMP;

     EMPNO ENAME      JOB              MGR HIREDATE        SAL
COMM     DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------
- ----------
      7499 ALLEN      SALESMAN        7698 20-FEB-81       1600
300        30
      7521 WARD       SALESMAN        7698 22-FEB-81       1250
500        30
      7654 MARTIN     SALESMAN        7698 28-SEP-81       1250
1400       30
      7698 BLAKE      MANAGER         7839 01-MAY-81       2850
30
      7844 TURNER     SALESMAN        7698 08-SEP-81       1500
0        30
      7900 JAMES      CLERK           7698 03-DEC-81        950
30
      7369 SMITH      CLERK           7902 17-DEC-80        800
20
      7566 JONES      MANAGER         7839 02-APR-81       2975
20
      7782 CLARK      MANAGER         7839 09-JUN-81       2450
10
      7788 SCOTT      ANALYST         7566 19-APR-87       3000
20
      7839 KING       PRESIDENT            17-NOV-81       5000
10
      7876 ADAMS      CLERK           7788 23-MAY-87       1100
20
      7902 FORD       ANALYST         7566 03-DEC-81       3000
20
      7934 MILLER     CLERK           7782 23-JAN-82       1300
10

14 rows selected.

SQL> DELETE FROM DEPT WHERE DEPTNO = 40;

1 row deleted.

SQL> COMMIT;

Commit complete.

SQL> --A Parent Table Data Can Be Deleted When it Has No Corresponding
Child Records
SQL> DELETE FROM DEPT
  2  WHERE DEPTNO = 30;
DELETE FROM DEPT
*
ERROR at line 1:
```

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

SQL> DELETE FROM EMP
  2 WHERE DEPTNO = 30;

6 rows deleted.

SQL> SELECT * FROM EMP;

```
     EMPNO ENAME      JOB              MGR HIREDATE       SAL
COMM      DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------
- ----------
      7369 SMITH      CLERK           7902 17-DEC-80       800
20
      7566 JONES      MANAGER         7839 02-APR-81      2975
20
      7782 CLARK      MANAGER         7839 09-JUN-81      2450
10
      7788 SCOTT      ANALYST         7566 19-APR-87      3000
20
      7839 KING       PRESIDENT            17-NOV-81      5000
10
      7876 ADAMS      CLERK           7788 23-MAY-87      1100
20
      7902 FORD       ANALYST         7566 03-DEC-81      3000
20
      7934 MILLER     CLERK           7782 23-JAN-82      1300
10
```

8 rows selected.

SQL> DELETE FROM EMP
  2 WHERE DEPTNO =
  3
SQL> DELETE FROM DEPT
  2 WHERE DEPTNO = 30;

1 row deleted.

SQL> ROLLBACK;

Rollback complete.

SQL> SELECT * FROM EMP;

```
     EMPNO ENAME      JOB              MGR HIREDATE       SAL
COMM      DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------
- ----------
```

```
     7499 ALLEN         SALESMAN        7698 20-FEB-81        1600
300       30
     7521 WARD          SALESMAN        7698 22-FEB-81        1250
500       30
     7654 MARTIN        SALESMAN        7698 28-SEP-81        1250
1400       30
     7698 BLAKE         MANAGER         7839 01-MAY-81        2850
30
     7844 TURNER        SALESMAN        7698 08-SEP-81        1500
0        30
     7900 JAMES         CLERK           7698 03-DEC-81         950
30
     7369 SMITH         CLERK           7902 17-DEC-80         800
20
     7566 JONES         MANAGER         7839 02-APR-81        2975
20
     7782 CLARK         MANAGER         7839 09-JUN-81        2450
10
     7788 SCOTT         ANALYST         7566 19-APR-87        3000
20
     7839 KING          PRESIDENT            17-NOV-81        5000
10
     7876 ADAMS         CLERK           7788 23-MAY-87        1100
20
     7902 FORD          ANALYST         7566 03-DEC-81        3000
20
     7934 MILLER        CLERK           7782 23-JAN-82        1300
10

14 rows selected.
```