

## Spool File For Oracle Students Trained By Mr. Balram

---

```
SQL> CREATE TABLE Table_Name
2  (
3  Column01  DataType (Width)
4  CONSTRAINT Constraint_Name  Constraint_Type,  --Column Level
Declaration OR In-Line Style Declaration
5  Column02  DataType (Width)
6  CONSTRAINT Constraint_Name  Constraint_Type,  --Column Level
Declaration OR In-Line Style Declaration
7  Column03  DataType (Width),  --Column Without Constraint
8
9
10
11
12 Column0N  DataType (Width)
13 CONSTRAINT Constraint_Name  Constraint_Type(Column03)  --Column
Level Declaration OR In-Line Style Declaration
14 )
15
```

```
SQL> CREATE TABLE Table_Name
2  (
3  Column01  DataType (Width) ,
4  Column02  DataType (Width) ,
5  Column03  DataType (Width) ,
6
7
8
9
10 Column0N  DataType (Width),
11 CONSTRAINT Constraint_Name  Constraint_Type(Column03)  --Table
Level OR Out-of-Line Style Declaration
12 )
13
```

```
SQL> CREATE TABLE SampleNN01
2  (
3  SampID NUMBER(4)
4  CONSTRAINT SampleNN01_SampID_NN NOT NULL,
5  SampName VARCHAR2(20),
6  SampDate DATE
7  );
```

Table created.

```
SQL> INSERT INTO SampleNN01
2  VALUES(01, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleNN01
2  VALUES(02, 'Sample02', SYSDATE);
```

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1 row created.

```
SQL> INSERT INTO SampleNN01
  2  VALUES(NULL, 'Sample03', SYSDATE);
VALUES(NULL, 'Sample03', SYSDATE)
      *
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN01"."SAMPID")

```
SQL> INSERT INTO SampleNN01
  2  VALUES(03, 'Sample03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleNN01
  2  VALUES(NULL, 'Sample04', SYSDATE);
VALUES(NULL, 'Sample04', SYSDATE)
      *
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN01"."SAMPID")

```
SQL> SELECT * FROM SampleNN01;
```

SAMPID	SAMPNAME	SAMPDATE
1	Sample01	13-APR-20
2	Sample02	13-APR-20
3	Sample03	13-APR-20

```
SQL> CREATE TABLE SampleNN02
  2  (
  3  SampID  NUMBER(4)
  4  CONSTRAINT SampleNN02_SampID_NN NOT NULL,  --Column Level OR In-Line
Style Declaration
  5  SampName VARCHAR2(15)
  6  CONSTRAINT SampleNN02_SampName_NN NOT NULL,  --Column Level OR In-
Line Style Declaration
  7  SampDate DATE
  8  CONSTRAINT SampleNN02_SampDate_NN NOT NULL  --Column Level OR In-
Line Style Declaration
  9  );
```

Table created.

```
SQL> INSERT INTO SampleNN02
  2  VALUES(01, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleNN02
  2  VALUES(02, 'Sample02', SYSDATE);
```

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---

1 row created.

```
SQL> INSERT INTO SampleNN02
  2  VALUES(NULL, 'Sample03', SYSDATE);
VALUES(NULL, 'Sample03', SYSDATE)
*
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN02"."SAMPID")

```
SQL> INSERT INTO SampleNN02
  2  VALUES(03, NULL, SYSDATE);
VALUES(03, NULL, SYSDATE)
*
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN02"."SAMPNAME")

```
SQL> INSERT INTO SampleNN02
  2  VALUES(03, 'Sample03', NULL);
VALUES(03, 'Sample03', NULL)
*
```

ERROR at line 2:

ORA-01400: cannot insert NULL into ("SCOTT"."SAMPLENN02"."SAMPDATE")

```
SQL> INSERT INTO SampleNN02
  2  VALUES(03, 'Sample03', SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM SampleNN02;
```

SAMPID	SAMPNAME	SAMPDATE
1	Sample01	13-APR-20
2	Sample02	13-APR-20
3	Sample03	13-APR-20

```
SQL> CREATE TABLE SampleNN03
  2  (
  3  SampID  NUMBER(4),
  4  SampName VARCHAR2(15),
  5  SampDate DATE,
  6  CONSTRAINT SampleNN03_SampID_NN NOT NULL(SampID)  --Table Level OR
Out-of-Line Style Declaration
  7  );
```

```
CONSTRAINT SampleNN03_SampID_NN NOT NULL(SampID)  --Table Level OR Out-
of-Line Style Declaration
```

\*

ERROR at line 6:

ORA-00904: : invalid identifier

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```
SQL> --NOT NULL Should Not Be Declared At Table Level
SQL>
SQL> --UNIQUE Constraint--
SQL> CREATE TABLE SampleUNQ01
  2  (
  3    SampleID NUMBER(4)
  4    CONSTRAINT SampleUNQ01_SampleID_UNQ UNIQUE,
  5    SampName VARCHAR2(15)
  6    CONSTRAINT SampleUNQ01_SampName_NN NOT NULL,
  7    SampDate DATE
  8  );
```

Table created.

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(01, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(02, 'Sample02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(02, 'Sample03', SYSDATE);
```

```
INSERT INTO SampleUNQ01
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLEUNQ01\_SAMPLEID\_UNQ) violated

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(NULL, 'Sample03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(NULL, 'Sample04', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(NULL, 'Sample05', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ01
  2  VALUES(03, 'Sample06', SYSDATE);
```

1 row created.

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---

```
SQL> SELECT * FROM SampleUNQ01;
```

SAMPLEID	SAMPNAME	SAMPDATE
1	Sample01	13-APR-20
2	Sample02	13-APR-20
	Sample03	13-APR-20
	Sample04	13-APR-20
	Sample05	13-APR-20
3	Sample06	13-APR-20

6 rows selected.

```
SQL> CREATE TABLE SampleUNQ02
```

```
2  (  
3  SampleID NUMBER(4),  
4  SampName VARCHAR2(15)  
5  CONSTRAINT SampleUNQ02_SampName_NN NOT NULL,  
6  SampDate DATE,  
7  CONSTRAINT SampleUNQ02_SampleID_UNQ UNIQUE(SampleID) --Table Level  
OR Out-of-Line Style Declaration  
8  );
```

Table created.

```
SQL> INSERT INTO SampleUNQ02  
2  VALUES(01, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ02  
2  VALUES(02, 'Sample02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ02  
2  VALUES(02, 'Sample03', SYSDATE);  
INSERT INTO SampleUNQ02  
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLEUNQ02\_SAMPLEID\_UNQ) violated

```
SQL> INSERT INTO SampleUNQ02  
2  VALUES(NULL, 'Sample03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ02  
2  VALUES(NULL, 'Sample04', SYSDATE);
```

1 row created.

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---

```
SQL> CREATE TABLE SampleUNQ03
  2  (
  3  SampleID NUMBER(4) UNIQUE,
  4  SampName VARCHAR2(15)
  5  CONSTRAINT SampleUNQ03_SampName_NN NOT NULL,
  6  SampDate DATE
  7  );
```

Table created.

```
SQL> INSERT INTO SampleUNQ03
  2  VALUES(01, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ03
  2  VALUES(01, 'Sample02', SYSDATE);
INSERT INTO SampleUNQ03
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SYS\_C0011137) violated

```
SQL> INSERT INTO SampleUNQ03
  2  VALUES(02, 'Sample02', SYSDATE);
```

1 row created.

```
SQL> CREATE TABLE SampleUNQ04
  2  (
  3  SampleID NUMBER(4),
  4  SampName VARCHAR2(15),
  5  --CONSTRAINT SampleUNQ04_SampName_NN NOT NULL,
  6  SampDate DATE,
  7  CONSTRAINT SampleUNQ04_SampleIDName_UNQ UNIQUE(SampleID, SampName)
--Table Level OR Out-of-Line Style Declaration
  8  );
```

Table created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(01, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(01, 'Sample02', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(02, 'Sample02', SYSDATE);
```

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---

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(03, 'Sample03', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(03, 'Sample03', SYSDATE);
INSERT INTO SampleUNQ04
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLEUNQ04\_SAMPLEIDNAME\_UNQ)  
violated

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(03, 'Sample04', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(NULL, 'Sample05', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(NULL, 'Sample05', SYSDATE);
INSERT INTO SampleUNQ04
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLEUNQ04\_SAMPLEIDNAME\_UNQ)  
violated

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(NULL, 'Sample06', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(NULL, 'Sample07', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(NULL, NULL, SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampleUNQ04
  2  VALUES(NULL, NULL, SYSDATE);
```

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---

1 row created.

```
SQL> INSERT INTO SampleUNQ04  
      2 VALUES (NULL, NULL, SYSDATE);
```

1 row created.

```
SQL> SPOOL OFF
```

Oracle 11g (SQL) By Balram