

Spool File For Oracle Students Prepared By Mr.Balram

```
SQL> CREATE SEQUENCE SAMPLESEQ01
  2 INCREMENT BY 1
  3 START WITH 0
  4 MINVALUE 0
  5 MAXVALUE 5
  6 NOCACHE
  7 NOCYCLE;
CREATE SEQUENCE SAMPLESEQ01
      *
```

ERROR at line 1:
ORA-00955: name is already used by an existing object

```
SQL> CREATE SEQUENCE SAMPLESEQ01
  2 INCREMENT BY 1
  3 START WITH 0
  4 MINVALUE 0
  5 MAXVALUE 5
  6 NOCACHE
  7 NOCYCLE;
```

Sequence created.

```
SQL> SELECT SAMPLESEQ01.CURRVAL FROM DUAL;
SELECT SAMPLESEQ01.CURRVAL FROM DUAL
      *
```

ERROR at line 1:
ORA-08002: sequence SAMPLESEQ01.CURRVAL is not yet defined in this session

```
SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;
```

```
      NEXTVAL
-----
          0
```

```
SQL> SELECT SAMPLESEQ01.CURRVAL FROM DUAL;
```

```
      CURRVAL
-----
          0
```

```
SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;
```

NEXTVAL

1

SQL> SELECT SAMPLESEQ01.CURRVAL FROM DUAL;

CURRVAL

1

SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;

NEXTVAL

2

SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;

NEXTVAL

3

SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;

NEXTVAL

4

SQL>

SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;

NEXTVAL

5

SQL> SELECT SAMPLESEQ01.NEXTVAL FROM DUAL;

SELECT SAMPLESEQ01.NEXTVAL FROM DUAL

*

ERROR at line 1:

ORA-08004: sequence SAMPLESEQ01.NEXTVAL exceeds MAXVALUE and
cannot be
instantiated

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```
SQL> CREATE TABLE Sample01
2 (
3 SAMPID NUMBER(4)
4 CONSTRAINT SAMPLE01_SAMPID_PK PRIMARY KEY,
5 SAMPNAME VARCHAR2(25),
6 SAMPDATE DATE
7 );
```

Table created.

```
SQL> CREATE SEQUENCE SAMPLESEQ02
2 INCREMENT BY 1
3 START WITH 0
4 MINVALUE 0
5 MAXVALUE 5
6 NOCACHE
7 CYCLE;
```

Sequence created.

```
SQL> INSERT INTO Sample01
2 VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM Sample01;
```

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 1 | Sample01 | 25-DEC-23 |

```
SQL> DROP SEQUENCE SAMPLESEQ02;
```

Sequence dropped.

```
SQL> CREATE SEQUENCE SAMPLESEQ02
2 INCREMENT BY 1
3 START WITH 0
4 MINVALUE 0
5 MAXVALUE 5
6 NOCACHE
7 CYCLE;
```

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Sequence created.

```
SQL> INSERT INTO Sample01
  2 VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM Sample01;
```

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 1 | Sample01 | 25-DEC-23 |
| 0 | Sample01 | 25-DEC-23 |

```
SQL> INSERT INTO Sample01
  2 VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE);
INSERT INTO Sample01
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLE01_SAMPID_PK) violated

```
SQL> INSERT INTO Sample01
  2 VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample01
  2* VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample01
  2* VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample01
  2* VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

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SQL> SELECT * FROM Sample01;

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 1 | Sample01 | 25-DEC-23 |
| 0 | Sample01 | 25-DEC-23 |
| 2 | Sample01 | 25-DEC-23 |
| 3 | Sample01 | 25-DEC-23 |
| 4 | Sample01 | 25-DEC-23 |
| 5 | Sample01 | 25-DEC-23 |

6 rows selected.

SQL> INSERT INTO Sample01
2 VALUES(SAMPLESEQ02.NEXTVAL, 'Sample01', SYSDATE);
INSERT INTO Sample01
*

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.SAMPLE01_SAMPID_PK) violated

SQL> CREATE SEQUENCE SampleSeq110;

Sequence created.

SQL> CREATE TABLE SAMPLE02
2 (
3 SAMPID NUMBER(4)
4 CONSTRAINT SAMPLE02_SAMPID_PK PRIMARY KEY,
5 SAMPNAME VARCHAR2(25),
6 SAMPDATE DATE
7);

Table created.

SQL> CREATE TABLE SAMPLE03
2 (
3 SAMPID NUMBER(4),
4 SAMPNAME VARCHAR2(25),
5 SAMPDATE DATE
6);

Table created.

```
SQL> CREATE SEQUENCE SAMPLESEQ03
  2 START WITH 0
  3 INCREMENT BY 1
  4 MINVALUE 0
  5 MAXVALUE 5
  6 NOCACHE
  7 CYCLE;
```

Sequence created.

```
SQL> INSERT INTO Sample03
  2 VALUES(SAMPLESEQ03.NEXTVAL, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample03
  2* VALUES(SAMPLESEQ03.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample03
  2* VALUES(SAMPLESEQ03.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample03
  2* VALUES(SAMPLESEQ03.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample03
  2* VALUES(SAMPLESEQ03.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO Sample03
  2* VALUES(SAMPLESEQ03.NEXTVAL, 'Sample01', SYSDATE)
```

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1 row created.

```
SQL> SELECT * FROM SAMPLE03;
```

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 1 | Sample01 | 25-DEC-23 |
| 2 | Sample01 | 25-DEC-23 |
| 3 | Sample01 | 25-DEC-23 |
| 4 | Sample01 | 25-DEC-23 |
| 5 | Sample01 | 25-DEC-23 |
| 0 | Sample01 | 25-DEC-23 |

6 rows selected.

```
SQL> CREATE TABLE SAMPLE04
2 (
3 SAMPID NUMBER(4),
4 SAMPNAME VARCHAR2(25),
5 SAMPDATE DATE
6 );
```

Table created.

```
SQL>
SQL> CREATE SEQUENCE SAMPLESEQ04
2 START WITH 10
3 INCREMENT BY -1
4 MINVALUE 0
5 MAXVALUE 10
6 NOCACHE
7 CYCLE;
```

Sequence created.

```
SQL> INSERT INTO SAMPLE04
2 VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE);
```

1 row created.

```
SQL> R
1 INSERT INTO SAMPLE04
2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE04
  2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

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SQL> R

```
1 INSERT INTO SAMPLE04
2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

SQL> SELECT * FROM SAMPLE04;

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 9 | Sample01 | 25-DEC-23 |
| 8 | Sample01 | 25-DEC-23 |
| 7 | Sample01 | 25-DEC-23 |
| 6 | Sample01 | 25-DEC-23 |
| 5 | Sample01 | 25-DEC-23 |
| 4 | Sample01 | 25-DEC-23 |
| 3 | Sample01 | 25-DEC-23 |
| 2 | Sample01 | 25-DEC-23 |
| 1 | Sample01 | 25-DEC-23 |
| 0 | Sample01 | 25-DEC-23 |

10 rows selected.

SQL> INSERT INTO SAMPLE04

```
2 VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE);
```

1 row created.

SQL> R

```
1 INSERT INTO SAMPLE04
2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

SQL> R

```
1 INSERT INTO SAMPLE04
2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

1 row created.

SQL> R

```
1 INSERT INTO SAMPLE04
2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)
```

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1 row created.

SQL> R

1 INSERT INTO SAMPLE04

2* VALUES(SAMPLESEQ04.NEXTVAL, 'Sample01', SYSDATE)

1 row created.

SQL> SELECT * FROM SAMPLE04;

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 9 | Sample01 | 25-DEC-23 |
| 8 | Sample01 | 25-DEC-23 |
| 7 | Sample01 | 25-DEC-23 |
| 6 | Sample01 | 25-DEC-23 |
| 5 | Sample01 | 25-DEC-23 |
| 4 | Sample01 | 25-DEC-23 |
| 3 | Sample01 | 25-DEC-23 |
| 2 | Sample01 | 25-DEC-23 |
| 1 | Sample01 | 25-DEC-23 |
| 0 | Sample01 | 25-DEC-23 |
| 10 | Sample01 | 25-DEC-23 |

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 9 | Sample01 | 25-DEC-23 |
| 8 | Sample01 | 25-DEC-23 |
| 7 | Sample01 | 25-DEC-23 |
| 6 | Sample01 | 25-DEC-23 |

15 rows selected.

SQL> CREATE TABLE SAMPLE05

2 (

3 SAMPID NUMBER(4),

4 SAMPNAME VARCHAR2(25),

5 SAMPDATE DATE

6);

Table created.

SQL>

SQL> CREATE SEQUENCE SAMPLESEQ05

```
2 START WITH 0
3 INCREMENT BY 10
4 MINVALUE 0
5 MAXVALUE 100
6 NOCACHE
7 NOCYCLE;
```

Sequence created.

```
SQL> CREATE TABLE SAMPLE06
2 (
3 SAMPID NUMBER(4),
4 SAMPNAME VARCHAR2(25),
5 SAMPDATE DATE
6 );
```

Table created.

```
SQL>
SQL> CREATE SEQUENCE SAMPLESEQ06
2 START WITH 5
3 INCREMENT BY 1
4 MINVALUE 0
5 MAXVALUE 10
6 NOCACHE
7 NOCYCLE;
```

Sequence created.

```
SQL> CREATE TABLE SAMPLE07
2 (
3 SAMPID NUMBER(4),
4 SAMPNAME VARCHAR2(25),
5 SAMPDATE DATE
6 );
```

Table created.

```
SQL>
SQL> CREATE SEQUENCE SAMPLESEQ07
2 START WITH 5
3 INCREMENT BY 1
4 MINVALUE 0
5 MAXVALUE 10
```

```
6 NOCACHE
7 CYCLE;
```

Sequence created.

```
SQL> CREATE TABLE SAMPLE08
2 (
3 SAMPID NUMBER(4),
4 SAMPNAME VARCHAR2(25),
5 SAMPDATE DATE
6 );
```

Table created.

```
SQL>
SQL> CREATE SEQUENCE SAMPLESEQ08
2 INCREMENT BY 1
3 START WITH 0
4 MINVALUE 0
5 MAXVALUE 20
6 NOCACHE
7 NOCYCLE;
```

Sequence created.

```
SQL> CREATE SEQUENCE SAMPLESEQ09
2 INCREMENT BY 1
3 START WITH 0
4 MINVALUE 0
5 MAXVALUE 20
6 NOCACHE
7 NOCYCLE;
```

Sequence created.

```
SQL> CREATE TABLE SAMPLE09_01
2 (
3 SAMPID NUMBER(4),
4 SAMPNAME VARCHAR2(25),
5 SAMPDATE DATE
6 );
```

Table created.

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```
SQL>
SQL> CREATE TABLE SAMPLE09_02
  2 (
  3 SAMPID NUMBER(4),
  4 SAMPNAME VARCHAR2(25),
  5 SAMPDATE DATE
  6 );
```

Table created.

```
SQL>
SQL> CREATE TABLE SAMPLE09_03
  2 (
  3 SAMPID NUMBER(4),
  4 SAMPNAME VARCHAR2(25),
  5 SAMPDATE DATE
  6 );
```

Table created.

```
SQL> INSERT INTO SAMPLE09_01
  2 VALUES(SAMPLESEQ09.NEXTVAL,'Sample01', SYSDATE);
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE09_01
  2* VALUES(SAMPLESEQ09.NEXTVAL,'Sample01', SYSDATE)
```

1 row created.

```
SQL> R
  1 INSERT INTO SAMPLE09_01
  2* VALUES(SAMPLESEQ09.NEXTVAL,'Sample01', SYSDATE)
```

1 row created.

```
SQL> SELECT * FROM SAMPLE09_01;
```

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 1 | Sample01 | 25-DEC-23 |
| 2 | Sample01 | 25-DEC-23 |
| 3 | Sample01 | 25-DEC-23 |

```
SQL> SELECT SAMPLESEQ09.NEXTVAL FROM DUAL;
```

```
NEXTVAL
```

```
-----  
4
```

```
SQL> SELECT SAMPLESEQ09.NEXTVAL FROM DUAL;
```

```
NEXTVAL
```

```
-----  
5
```

```
SQL> INSERT INTO SAMPLE09_02  
2 VALUES(SAMPLESEQ09.NEXTVAL,'Sample01', SYSDATE);
```

```
1 row created.
```

```
SQL> R  
1 INSERT INTO SAMPLE09_02  
2* VALUES(SAMPLESEQ09.NEXTVAL,'Sample01', SYSDATE)
```

```
1 row created.
```

```
SQL> R  
1 INSERT INTO SAMPLE09_02  
2* VALUES(SAMPLESEQ09.NEXTVAL,'Sample01', SYSDATE)
```

```
1 row created.
```

```
SQL> SELECT * FROM SAMPLE09_02;
```

```
SAMPID SAMPNAME SAMPDATE
```

```
-----  
7 Sample01 25-DEC-23  
8 Sample01 25-DEC-23  
9 Sample01 25-DEC-23
```

```
SQL> COL SEQUENCE_NAME FORMAT A15
```

```
SQL> SELECT SEQUENCE_NAME,
```

```
2 MIN_VALUE,
```

```
3 MAX_VALUE,
```

```
4 INCREMENT_BY
```

```
5 FROM USER_SEQUENCES;
```

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| SEQUENCE_NAME | MIN_VALUE | MAX_VALUE | INCREMENT_BY |
|---------------|-----------|------------|--------------|
| CUSTID | 1 | 1.0000E+28 | 1 |
| ORDID | 1 | 1.0000E+28 | 1 |
| PRODID | 1 | 1.0000E+28 | 1 |
| SAMPLESEQ01 | 0 | 5 | 1 |
| SAMPLESEQ02 | 0 | 5 | 1 |
| SAMPLESEQ03 | 0 | 5 | 1 |
| SAMPLESEQ04 | 0 | 10 | -1 |
| SAMPLESEQ05 | 0 | 100 | 10 |
| SAMPLESEQ06 | 0 | 10 | 1 |
| SAMPLESEQ07 | 0 | 10 | 1 |
| SAMPLESEQ08 | 0 | 20 | 1 |

| SEQUENCE_NAME | MIN_VALUE | MAX_VALUE | INCREMENT_BY |
|---------------|-----------|------------|--------------|
| SAMPLESEQ09 | 0 | 20 | 1 |
| SAMPLESEQ110 | 1 | 1.0000E+28 | 1 |

13 rows selected.

```
SQL> COL OBJNAME FOR A13
SQL> COL OBJTYPE FOR A10
SQL> SELECT OBJECT_NAME OBJNAME, OBJECT_TYPE OBJTYPE, STATUS
2  FROM USER_OBJECTS
3  WHERE OBJECT_TYPE ='SEQUENCE';
```

| OBJNAME | OBJTYPE | STATUS |
|--------------|----------|--------|
| SAMPLESEQ110 | SEQUENCE | VALID |
| SAMPLESEQ09 | SEQUENCE | VALID |
| SAMPLESEQ08 | SEQUENCE | VALID |
| SAMPLESEQ07 | SEQUENCE | VALID |
| SAMPLESEQ06 | SEQUENCE | VALID |
| SAMPLESEQ05 | SEQUENCE | VALID |
| SAMPLESEQ04 | SEQUENCE | VALID |
| SAMPLESEQ03 | SEQUENCE | VALID |
| SAMPLESEQ02 | SEQUENCE | VALID |
| SAMPLESEQ01 | SEQUENCE | VALID |
| PRODID | SEQUENCE | VALID |

| OBJNAME | OBJTYPE | STATUS |
|---------|---------|--------|
|---------|---------|--------|

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| ORDID | SEQUENCE | VALID |
|--------|----------|-------|
| CUSTID | SEQUENCE | VALID |

13 rows selected.

SQL> SPOOL OFF

Oracle 11g(SQL) By Balram