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EXPERIMENT NO:- 08

OBJECTIVE: **To understand the concepts of Sequence.**

1) **Create a sequence by name EMPID_SEQ starting with value 100 with an interval of 1.**

```
SQL> drop TABLE EMPLOYEE;

Table dropped.

SQL> CREATE TABLE EMPLOYEE(
  2  EMP_ID VARCHAR(30) NOT NULL,
  3  FIRST_NAME VARCHAR(30) NOT NULL,
  4  LAST_NAME VARCHAR(30) NOT NULL,
  5  DOB DATE,
  6  SALARY NUMBER(30));

Table created.

SQL> CREATE SEQUENCE EMPID_SEQ INCREMENT BY 1 START WITH 100 MINVALUE 100 MAXVAL
UE 110;

Sequence created.
```

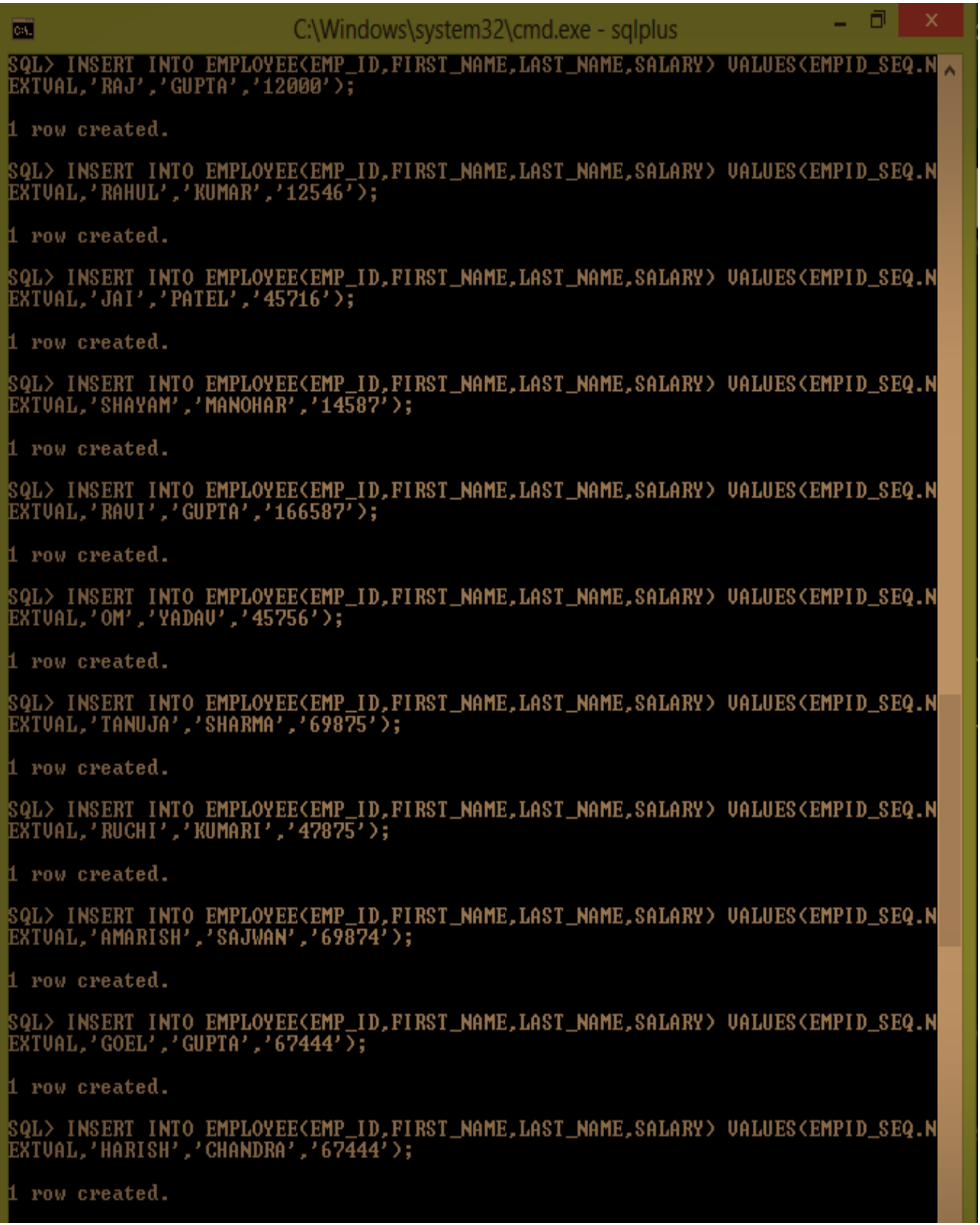
2) **Write a SQL command for finding the current and the next status of EMPID_SEQ.**

```
SQL> SELECT EMPID_SEQ.NEXTVAL FROM EMPLOYEE;
SELECT EMPID_SEQ.NEXTVAL FROM EMPLOYEE
       *
ERROR at line 1:
ORA-08004: sequence EMPID_SEQ.NEXTVAL exceeds MAXVALUE and cannot be
instantiated


SQL>
```

3) **Change the Cache value of the sequence EMPID_SEQ to 20 and maxvalue to 1000.**

```


SQL> ALTER SEQUENCE EMPID_SEQ CACHE 20;

Sequence altered.

SQL> ALTER SEQUENCE EMPID_SEQ MAXVALUE 1000;

Sequence altered.

SQL>
```

4) Insert values in employees table using sequences for employee_id column.



```
SQL> INSERT INTO EMPLOYEE(EMP_ID,FIRST_NAME,LAST_NAME,SALARY) VALUES(EMPID_SEQ.N
EXTVAL,'HARISH','CHANDRA','67444');
INSERT INTO EMPLOYEE(EMP_ID,FIRST_NAME,LAST_NAME,SALARY) VALUES(EMPID_SEQ.NEXTVA
L,'HARISH','CHANDRA','67444')
            *
ERROR at line 1:
ORA-08004: sequence EMPID_SEQ.NEXTVAL exceeds MAXVALUE and cannot be
instantiated
```

C:\Windows\system32\cmd.exe - sqlplus

```
SQL> SELECT * FROM EMPLOYEE;

EMP_ID                         FIRST_NAME
------------------------------ ------------------------------
LAST_NAME                      DOB         SALARY
------------------------------ --------- ----------
100                            RAJ
GUPTA                                         12000

101                            RAHUL
KUMAR                                         12546

102                            JAI
PATEL                                         45716

EMP_ID                         FIRST_NAME
------------------------------ ------------------------------
LAST_NAME                      DOB         SALARY
------------------------------ --------- ----------
103                            SHAYAM
MANOHAR                                       14587

104                            RAVI
GUPTA                                        166587

105                            OM
YADAV                                         45756

EMP_ID                         FIRST_NAME
------------------------------ ------------------------------
LAST_NAME                      DOB         SALARY
------------------------------ --------- ----------
106                            TANUJA
SHARMA                                        69875

107                            RUCHI
KUMARI                                        47875

108                            AMARISH
SAJWAN                                        69874

EMP_ID                         FIRST_NAME
------------------------------ ------------------------------
LAST_NAME                      DOB         SALARY
------------------------------ --------- ----------
109                            GOEL
GUPTA                                         67444

110                            HARISH
CHANDRA                                       67444

11 rows selected.

SQL>
```

5) **Drop sequence EMPID_SEQ.**

```
SQL> DROP SEQUENCE EMPID_SEQ;

Sequence dropped.
```

6) **Create a sequence called REVERSE to generate numbers in the descending order from 10000 to 1000 with a decrement of 5.**

```
SQL> CREATE SEQUENCE REVERSE START WITH 10000 MAXVALUE 10000 MINVALUE 1000 INCRE
MENT BY -5;

Sequence created.

SQL>
```