Advanced Database Management Systems
Experiment-8
To understand the concepts of Sequence

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Batch- 2

create database LabExperiment8;

USE LabExperiment8;

CREATE SCHEMA EMPLOYEE ;

CREATE SEQUENCE EMPLOYEE.EMPID_SEQ START WITH 100
INCREMENT BY 1 ;

--Write a SQL command for finding the current and the next status of
EMPID_SEQ.
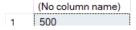SELECT NEXT VALUE FOR EMPLOYEE.EMPID_SEQ;

Output:

	(No column name)
1	100

	(No column name)
1	101

	(No column name)
1	102

--Change the Cache value of the sequence EMPID_SEQ to 20 and maxvalue to
1000.
ALTER SEQUENCE EMPLOYEE.EMPID_SEQ RESTART WITH 500
INCREMENT BY 5 MINVALUE 50 MAXVALUE 1000 CYCLE CACHE 20;
SELECT NEXT VALUE FOR EMPLOYEE.EMPID_SEQ;

Output:

	(No column name)
1	500

--4) Insert values in employees table using sequences for employee_id column.
CREATE SCHEMA TEST;

CREATE TABLE TEST.EMPLOYEE(EMPID INTEGER PRIMARY KEY,
ENAME VARCHAR(30), JOB VARCHAR(20), MGR INTEGER,

```sql
    HIREDATE DATE, SAL INTEGER, COMM INTEGER, DEPTNO INTEGER
);

CREATE SEQUENCE TEST.emp_id START WITH 1000 INCREMENT BY
1 ;

INSERT TEST.EMPLOYEE (EMPID, ENAME, JOB,MGR,
HIREDATE,SAL,COMM,DEPTNO) values (NEXT VALUE FOR
TEST.emp_id, 'ALLEN','SALESMAN', 7698,'20-FEB-81',1600,300,30);

SELECT * FROM TEST.EMPLOYEE;

INSERT TEST.EMPLOYEE (EMPID, ENAME, JOB,MGR,
HIREDATE,SAL,COMM,DEPTNO) values (NEXT VALUE FOR
TEST.emp_id, 'WARD', 'SALESMAN',7698, '22-FEB-81', 1250,500,30);

SELECT * FROM TEST.EMPLOYEE;
```

Output:

	EMPID	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	1000	ALLEN	SALESMAN	7698	1981-02-20	1600	300	30

	EMPID	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	1000	ALLEN	SALESMAN	7698	1981-02-20	1600	300	30
2	1001	WARD	SALESMAN	7698	1981-02-22	1250	500	30

```sql
--Drop sequence EMPID_SEQ.
DROP SEQUENCE EMPLOYEE.EMPID_SEQ;

--Create a sequence called REVERSE to generate numbers in the descending
order from 10000 to 1000 with a decrement of 5.
CREATE SEQUENCE TEST.REVERSE START WITH 10000 INCREMENT
BY -5 MINVALUE 1000 MAXVALUE 10000 CYCLE CACHE 3;

SELECT NEXT VALUE FOR TEST.REVERSE;
```

Output:

	(No column name)
1	10000