



Experiment-4

Student Name: Gauri Prabhakar UID: 18BCS6201

Branch: 18AITAIML-2 Section/Group: B

Semester: 7 Date of Performance: 8th September, 2021

Subject Name: Advanced Database Management Lab **Subject Code:** CSP - 434

1. Aim/Overview of the practical:

To create and perform queries on sequences, synonyms and views.

2. Task to be done:

To create and perform queries on sequences, synonyms and views.

3. Steps to be followed:

Creating a SEQUENCE, incrementing it by 1 then creating a table and inserting values into the table and setting NEXTVAL:

1. CREATE SEQUENCE STUDENT_ID START WITH 151 INCREMENT BY 1 NOCACHE NOCYCLE; CREATE TABLE STUDENT(Roll_No int, Name varchar(50), Age int); INSERT INTO STUDENT VALUES(STUDENT_ID.NEXTVAL,'Gauri',21); INSERT INTO STUDENT VALUES(STUDENT_ID.NEXTVAL,'Lilly',22); INSERT INTO STUDENT VALUES(STUDENT ID.NEXTVAL,'Rose',18);

```
Mem SQL Commanded Line — D X
SQL*Plus: Release 11.2.0.2.0 Production on Wed Sep 8 09:42:41 2021

Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect
Enter user-name: system
Enter password:
Connected.

SQL> CREATE SEQUENCE STUDENT_ID START WITH 151 INCREMENT BY 1 NOCACHE NOCYCLE;

Sequence created.

SQL> CREATE TABLE STUDENT(Roll_No int, Name varchar(50), Age int);

Table created.

SQL> INSERT INTO STUDENT VALUES(STUDENT_ID.NEXTVAL, 'Gauri',21);

1 row created.

SQL> INSERT INTO STUDENT VALUES(STUDENT_ID.NEXTVAL, 'Lilly',22);

1 row created.

SQL> INSERT INTO STUDENT VALUES(STUDENT_ID.NEXTVAL, 'Rose',18);

1 row created.
```



Returning the table and creating SYNONYM:

2. SELECT * FROM STUDENT;

Returning the SYNONYM table and inserting value to the original table and then returning the original table:

3. CREATE SYNONYM STUDENT_6201 for STUDENT; SELECT * FROM STUDENT_6201; INSERT INTO STUDENT VALUES(STUDENT_ID.NEXTVAL,'Chelsea',24); SELECT * FROM STUDENT;

Creating a VIEW then returning it then UPDATING the VIEW:

4. CREATE VIEW STUDENT_VW AS SELECT Roll_No, Age FROM Student WHERE Age >= 20; SELECT * FROM STUDENT_VW; UPDATE STUDENT_VW SET Age = 28 WHERE Roll_No = 152;

```
SQL> CREATE VIEW STUDENT_VW AS SELECT Roll_No, Age FROM Student WHERE Age >= 20;

View created.

SQL> SELECT * FROM STUDENT_VW;

ROLL_NO AGE

151 21
152 22
154 24

SQL> UPDATE STUDENT_VW SET Age = 28 WHERE Roll_No = 152;

1 row updated.
```



Returning the updated VIEW, creating another VIEW from the previous VIEW, returning the new VIEW and then inserting values into the new VIEW and returning the updated view:

5. SELECT * FROM STUDENT_VW; CREATE VIEW STUDENT_VEW AS SELECT Roll_No, Age FROM STUDENT_VW; SELECT * FROM STUDENT_VEW; INSERT INTO STUDENT_VEW VALUES (STUDENT_ID.NEXTVAL, 26); SELECT * FROM STUDENT_VEW;

Returning the updated table and then DROPPING the view:

6. SELECT * FROM STUDENT; DROP VIEW STUDENT VW;



4. Result/Output/Writing Summary:

- Successfully implemented Sequence, Synonym and Views.
- Successfully understood the functioning and importance of the above mentioned.
- Successfully implemented operations on the above mentioned.
- Successfully understood the working of Sequence, Synonym and Views.

5. Learning outcomes (What I have learnt):

- How to implement Sequence, Synonym and Views on SQL Command Line.
- How to update Views and initialize Sequence.
- How to implement operations on Sequence, Synonym and Views and return their outcomes.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			



