Ex.No.: Date:	15	OTHER DATABASE OBJECTS

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Objectives

After the completion of this exercise, the students will be able to do the following:

- · Create, maintain, and use sequences
- · Create and maintain indexes

Database Objects

Many applications require the use of unique numbers as primary key values. You can either build code into the application to handle this requirement or use a sequence to generate unique numbers.

If you want to improve the performance of some queries, you should consider creating an index. You

can also use indexes to enforce uniqueness on a column or a collection of columns.

You can provide alternative names for objects by using synonyms.

What Is a Sequence?

A sequence:

- Automatically generates unique numbers
- Is a sharable object
- Is typically used to create a primary key value
- Replaces application code
- Speeds up the efficiency of accessing sequence values when cached in memory

The CREATE SEQUENCE Statement Syntax

Define a sequence to generate sequential numbers automatically:

CREATE SEQUENCE sequence [INCREMENT BY n] [START WITH n] [{MAXVALUE n | NOMAXVALUE}] [{MINVALUE n | NOMINVALUE}] [{CYCLE|NOCYCLE}] [{CACHE n | NOCACHE}];

In the syntax:

sequence is the name of the sequence generator

1) Create Sequence DEPT-ID-SEQ INGREMENT BY 10 START WITH 200 MAX VALUE 1000 NO CACHE NOCYCLE;

2) SELECT Sequence - name, anews - value, increament - by, Lost - number.

FROM

WHELE

Suguence - name=1 DEPT_ID_SEQ';

- 3) INSERT INTO DEPT (DEPT_ID, DEPT_NAME) VALUES (DENT_ID, SEQ. NEXTVAL, 'Education'); DNSUT into DEPT (DEPT_ID, DEPT-NAME) VALUES (Dept-Id - SEQ - NEXT VAL, 1 Health Care');
- 4) CREATE I NOEX emp-Dent-id-idx ON EMD(Dept-id);

*

5) SEL ECT indesc-name, uniqueness EROM ush-indesses

WHERE

table_name = 'EMP'