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Experiment 15
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OTHER DATABASE OBJECTS

1. Create a sequence to be used with the primary key column of the DEPT table. The sequence should start at 200 and have a maximum value of 1000. Have your sequence increment by ten numbers. Name the sequence DEPT_ID_SEQ.

Create Sequence dept_id_sequence start with 200 increment by 10 maxvalue 1000;

Sequence created.

SEQUENCE_NAME	MIN_VALUE	MAX_VALUE	INCREMENT_BY	CYCLE_FLAG	ORDER_FLAG	CACHE_SIZE	LAST_NUMBER
DEMO_CUST_SEQ	1	99999999999999999999999999999999	1	N	N	20	21
DEMO_ORDER_ITEMS_SEQ	1	99999999999999999999999999999999	1	N	N	20	61
DEMO_ORD_SEQ	1	99999999999999999999999999999999	1	N	N	20	11
DEMO_PROD_SEQ	1	99999999999999999999999999999999	1	N	N	20	21
DEMO_USERS_SEQ	1	99999999999999999999999999999999	1	N	N	20	21
DEPT_ID_SEQUENCE	1	1000	10	N	N	20	200

2. Write a query in a script to display the following information about your sequences: sequence name, maximum value, increment size, and last number

```
SELECT sequence_name, max_value, increment_by AS increment_size, last_number FROM
user_sequences WHERE sequence_name = 'DEPT_ID_SEQUENCE';
```

SEQUENCE_NAME	MAX_VALUE	INCREMENT_SIZE	LAST_NUMBER
DEPT_ID_SEQUENCE	1000	10	200

3. Write a script to insert two rows into the DEPT table. Name your script lab12_3.sql. Be sure to use the sequence that you created for the ID column. Add two departments named Education and Administration. Confirm your additions. Run the commands in your script.

```
Insert into departments values(dept_id_sequence.nextval,'HR',111,1010,'US','United States');
Insert into departments values(dept_id_seq.nextval,'Admin',112,1011,'IN','India');
```

200	HR	111	1010	US	United States
210	Admin	112	1011	IN	India

4. Create a nonunique index on the foreign key column (DEPT_ID) in the EMP table.

```
Create index emp_dept_index on Employees(department_id);
```

EMPLOYEE_INDEX	NORMAL	VISHWAK16	EMPLOYEES	TABLE	NONUNIQUE	DISABLED	-	USERS	2
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5. Display the indexes and uniqueness that exist in the data dictionary for the EMP table.

```
SELECT index_name, uniqueness FROM user_indexes WHERE table_name = 'Employees';
```

Output :

Index_name : EMPLOYEE_INDEX

Uniqueness : NONUNIQUE