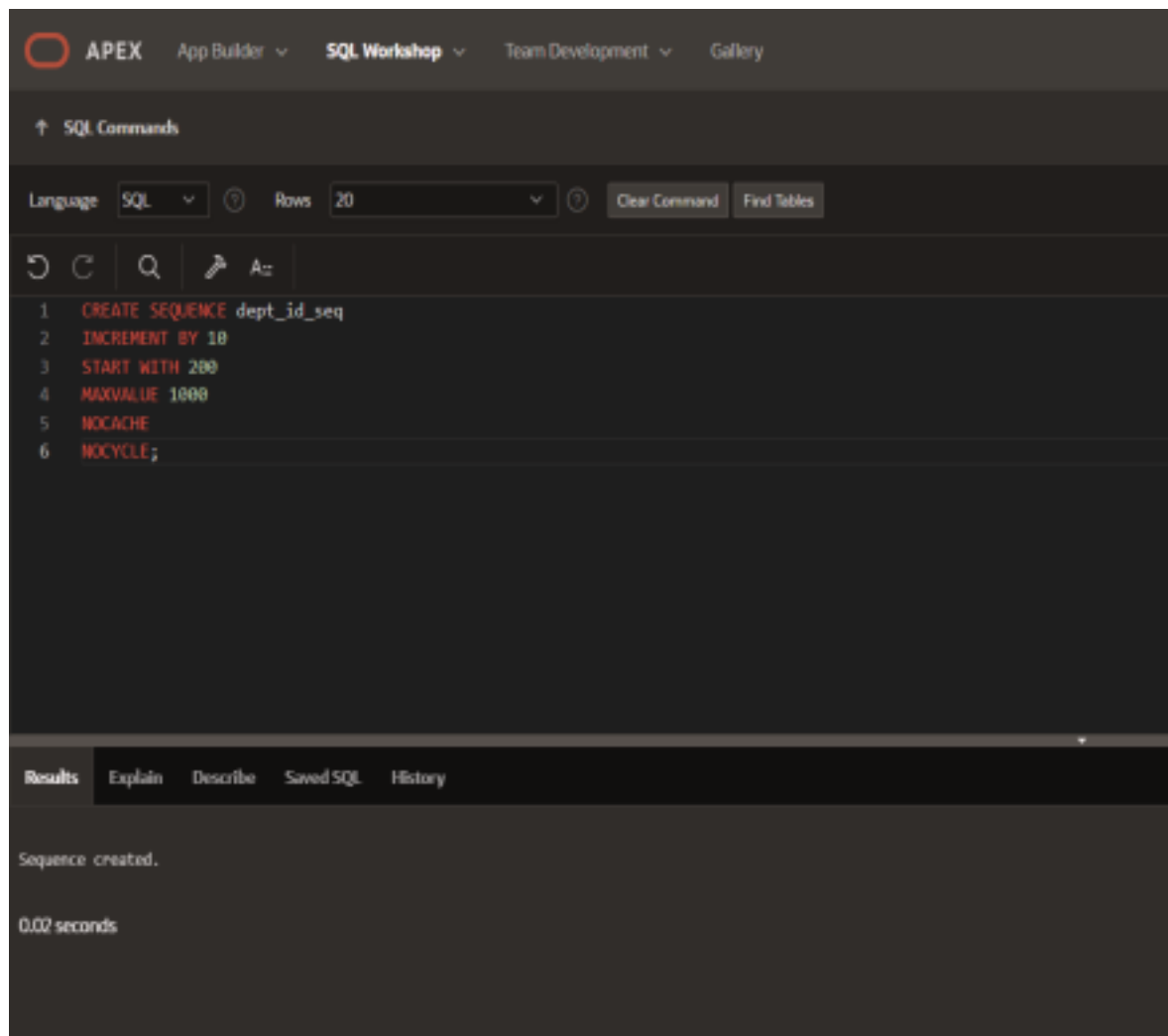


EXERCISE-14 OTHER DATABASE OBJECTS

241801310 Department:
AI&DS

Name: VIDHYASHREE J
Register Number:

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.



The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, displaying a list of SQL commands to create a sequence named 'dept_id_seq'. The commands are: 1. CREATE SEQUENCE dept_id_seq, 2. INCREMENT BY 10, 3. START WITH 200, 4. MAXVALUE 1000, 5. NOCACHE, and 6. NOCYCLE;. Below the command list, the 'Results' tab is selected, showing the message 'Sequence created.' and the execution time '0.02 seconds'.

```
1 CREATE SEQUENCE dept_id_seq
2 INCREMENT BY 10
3 START WITH 200
4 MAXVALUE 1000
5 NOCACHE
6 NOCYCLE;
```

Results Explain Describe Saved SQL History

Sequence created.

0.02 seconds

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

The screenshot shows the SQL Developer interface. The top bar indicates the 'SQL Commands' window. The 'Language' is set to 'SQL' and 'Rows' is set to '20'. The query editor contains the following SQL code:

```
1 SELECT sequence_name,  
2        next_value,  
3        increment_by,  
4        last_number  
5 FROM user_sequences  
6 WHERE sequence_name = 'DEPT_ID_SEQ';
```

The 'Results' tab is active, displaying the following table:

SEQUENCE_NAME	NEXT_VALUE	INCREMENT_BY	LAST_NUMBER
DEPT_ID_SEQ	1000	10	700

Below the table, it states '1 row returned 0.01 seconds'.

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.

The screenshot shows the SQL Developer interface. The top bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' window is active. The 'Language' is set to 'SQL' and 'Rows' is set to '20'. The query editor contains the following SQL code:

```
1 INSERT INTO departments (department_id, department_name, location_id)  
2 VALUES (dept_id_seq.NEXTVAL, 'Education', 1000);
```

The 'Results' tab is active, displaying the following text:

1 row(s) inserted.
0.01 seconds

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, showing a command to insert a new row into the 'departments' table. The command is: `1 INSERT INTO departments (department_id, department_name, location_id)` and `2 VALUES (dept_id_seq.NEXTVAL, 'Administration', 1009);`. The 'Results' tab shows '1 row(s) inserted.' and '0.00 seconds'. The 'Results' tab is selected, showing the command and its results. The command is: `1 SELECT * FROM departments` and `2 WHERE department_name IN ('Education', 'Administration');`. The results are displayed in a table with columns: DEPARTMENT_ID, DEPARTMENT_NAME, and LOCATION_ID. The table contains two rows: one for 'Administration' with DEPARTMENT_ID 20 and LOCATION_ID 1009, and one for 'Education' with DEPARTMENT_ID 300 and LOCATION_ID 1008. The status bar at the bottom indicates '2 rows returned in 0.00 seconds' and provides a 'Download' link.

↑ SQL Commands

Language: SQL Rows: 20 Clear Command Find Tables

```
1 INSERT INTO departments (department_id, department_name, location_id)
2 VALUES (dept_id_seq.NEXTVAL, 'Administration', 1009);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

↑ SQL Commands

Language: SQL Rows: 20 Clear Command Find Tables

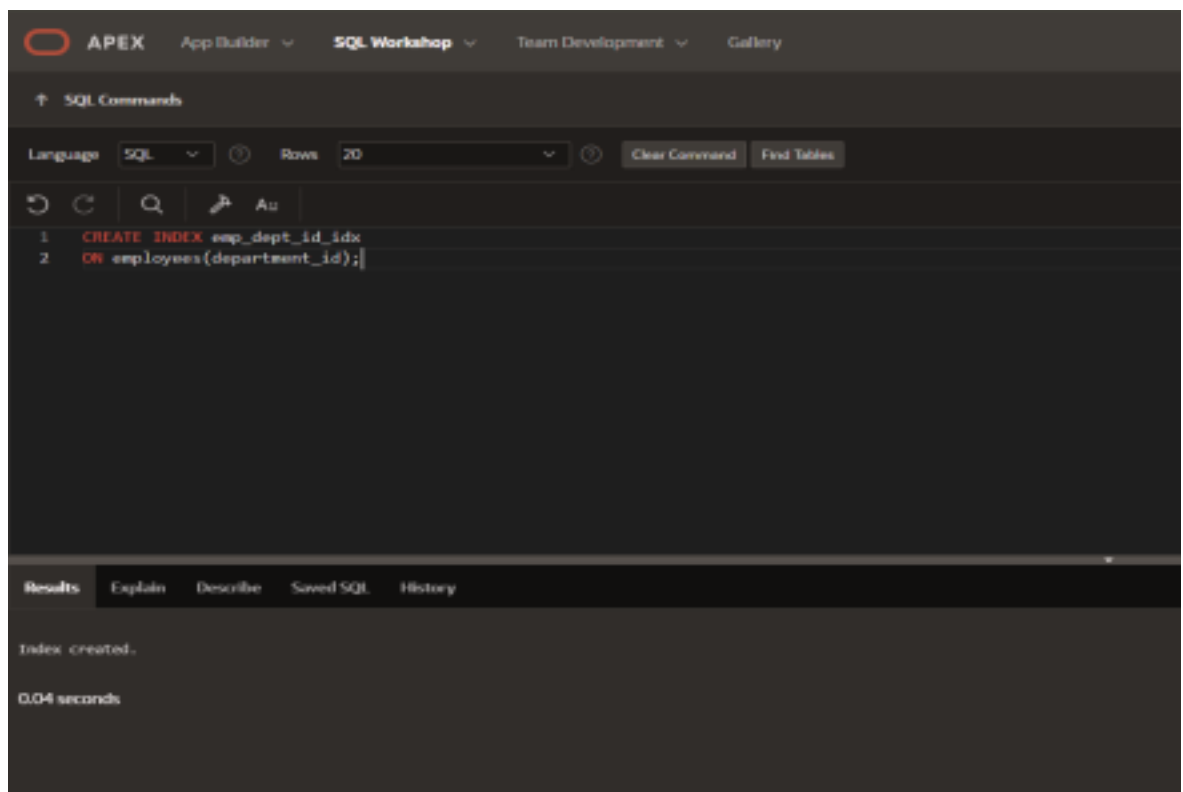
```
1 SELECT * FROM departments
2 WHERE department_name IN ('Education', 'Administration');
```

Results Explain Describe Saved SQL History

DEPARTMENT_ID	DEPARTMENT_NAME	LOCATION_ID
20	Administration	1009
300	Education	1008

2 rows returned in 0.00 seconds Download

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



5. Display the indexes and uniqueness that exist in the data dictionary for the EMP table.

