

# OTHER DATABASE OBJECTS

EX\_NO:14

DATE:

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

**QUERY:**

```
CREATE SEQUENCE dept_id_seq START WITH 200 INCREMENT BY 10 MAXVALUE 1000;
```

**OUTPUT:**

The screenshot shows the APEX SQL Workshop interface. The 'SQL Commands' tab is active, displaying the query: `CREATE SEQUENCE dept_id_seq START WITH 200 INCREMENT BY 10 MAXVALUE 1000;`. The 'Run' button has been clicked, and the 'Results' tab is selected. The results pane shows the message 'Sequence created.' and the execution time '0.01 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

**QUERY:**

```
SELECT sequence_name, max_value, increment_by, last_number FROM user_sequences;
```

**OUTPUT:**

The screenshot shows the APEX SQL Workshop interface. The 'SQL Commands' tab is active, displaying the query: `SELECT sequence_name, max_value, increment_by, last_number FROM user_sequences;`. The 'Run' button has been clicked, and the 'Results' tab is selected. The results pane shows a table with the following data:

SEQUENCE_NAME	MAX_VALUE	INCREMENT_BY	LAST_NUMBER
DEPT_ID_SEQ	1000	10	200

1 rows returned in 0.00 seconds [Download](#)

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.

**QUERY:**

INSERT INTO dept VALUES (dept\_id\_seq.nextval, 'Education');

**OUTPUT:**

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are on the right. The 'SQL Commands' tab is active, showing a schema of 'WKSP\_ARKHAM16'. The command area contains the SQL statement: `1 insert into dept values (dept_id_seq.nextval, 'Education');`. Below the command area, the 'Results' tab is selected, displaying the output: '1 row(s) inserted.' and '0.02 seconds'.

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

**QUERY:**

CREATE INDEX emp\_dept\_id\_idx ON EMPLOYEES (department\_id);

**OUTPUT:**

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'agish raj arkham16' are on the right. The 'SQL Commands' tab is active, showing a schema of 'WKSP\_ARKHAM16'. The command area contains the SQL statement: `1 CREATE INDEX emp_dept_id_idx ON EMPLOYEES (department_id);`. Below the command area, the 'Results' tab is selected, displaying the output: 'Index created.' and '0.02 seconds'.

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

QUERY:

SELECT index\_name,table\_name,uniqueness FROM user\_indexes WHERE table\_name='EMPLOYEES';

OUTPUT:

APEX

App Builder

SQL Workshop

Team Development

Gallery

Search

AR

agish raj

arkham16

SQL Commands

SchemaWKSP\_ARKHAM16

LanguageSQL

Rows10

Clear Command

Find Tables

Save

Run

A:

1SELECT index\_name,table\_name,uniqueness FROM user\_indexes WHERE table\_name='EMPLOYEE';

Results

Explain

Describe

Saved SQL

History

INDEX_NAME	TABLE_NAME	UNIQUENESS
EMP_DEPT_ID_IDX	EMPLOYEE	NONUNIQUE

1 rows returned in 0.08 secondsDownload

Evaluation Procedure	Marks awarded
Query(5)	
Execution (5)	
Viva(5)	
Total (15)	
Faculty Signature	

RESULT: