EXPERIMENT-1

AIM : Write SQL queries to CREATE TABLES for various databases using DDL commands (i.e.CREATE, ALTER, DROP, TRUNCATE).

CREATE TABLE:

Creates a table with specified constraints

SYNTAX:

CREATE TABLE tablename (

column1 data_ type [constraint] [,

column2 data_ type [constraint]] [,

PRIMARY KEY (column1 [, column2])] [,

FOREIGN KEY (column1 [, column2]) REFERENCES tablename] [,CONSTRAINT constraint]);

```
SQL> CREATE TABLE COLLEGE(
  2  COLLEGE_NAME VARCHAR2(5),
  3  CLG_ID VARCHAR2(5),
  4  PLACE VARCHAR2(5),
  5  STD_STRENGTH NUMBER,
  6  TOTAL_BRANCHES NUMBER,
  7  TOTAL_BLOCKS NUMBER,
  8  PRIMARY KEY(CLG_ID)
  9  );

Table created.
```

```
SQL> desc college;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------
----
 COLLEGE_NAME                                       VARCHAR2(5)
 CLG_ID                                    NOT NULL VARCHAR2(5)
 PLACE                                              VARCHAR2(5)
 STD_STRENGTH                                       NUMBER
 TOTAL_BRANCHES                                     NUMBER
 TOTAL_BLOCKS                                       NUMBER
```

ALTER TABLE :

Used to add or modify table details like column names and data types, column constraints.

```
SQL> alter table college
  2  add clg_fee NUMBER not null;

Table altered.

SQL> desc college;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------
----
 COLLEGE_NAME                                       VARCHAR2(5)
 CLG_ID                                    NOT NULL VARCHAR2(5)
 PLACE                                              VARCHAR2(5)
 STD_STRENGTH                                       NUMBER
 TOTAL_BRANCHES                                     NUMBER
 TOTAL_BLOCKS                                       NUMBER
 CLG_FEE                                   NOT NULL NUMBER
```

```
SQL> alter table college
  2  drop column total_blocks;

Table altered.

SQL> desc college;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------
----
 COLLEGE_NAME                                       VARCHAR2(5)
 CLG_ID                                    NOT NULL VARCHAR2(5)
 PLACE                                              VARCHAR2(5)
 STD_STRENGTH                                       NUMBER
 TOTAL_BRANCHES                                     NUMBER
 CLG_FEE                                   NOT NULL NUMBER
```

DROP TABLE:

Deletes the specified table.

SYNTAX:

DROP TABLE table_name;

```
SQL> create table products(
  2  p_name varchar2(10) not null,
  3  p_id NUMBER not null,
  4  primary key(p_id)
  5  );

Table created.

SQL> drop table products;

Table dropped.

SQL> desc products;
ERROR:
ORA-04043: object products does not exist
```

ENAME TABLE:

To rename table_name, column_name

SYNTAXES:

RENAME new_table_name TO old_table_name;

```
SQL> rename college to data;

Table renamed.

SQL> desc data;
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------
----
 COLLEGE_NAME                                       VARCHAR2(5)
 CLG_ID                                    NOT NULL VARCHAR2(5)
 PLACE                                              VARCHAR2(5)
 STD_STRENGTH                                       NUMBER
 TOTAL_BRANCHES                                     NUMBER
 CLG_FEE                                   NOT NULL NUMBER
```

TRUNCATE TABLE:

To remove all rows in a specified table.

SYNTAX:

TRUNCATE TABLE table_name;

```
SQL> TRUNCATE TABLE DATA;

Table truncated.
```