EXPERIMENT-1

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

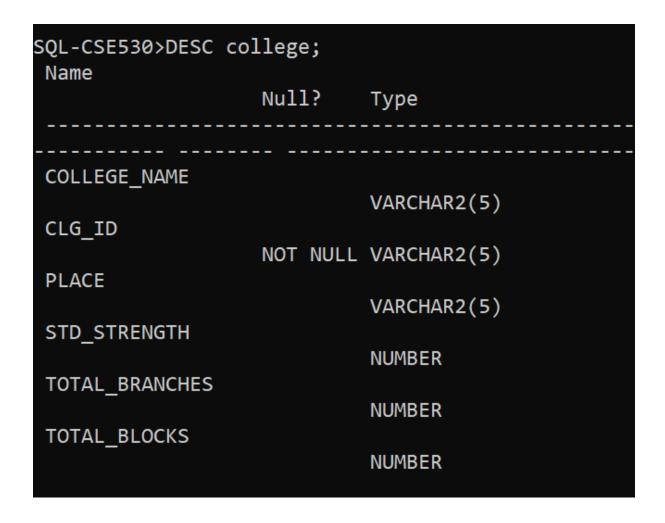
CREATE TABLE:

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]);
```

```
1 CREATE TABLE college(
2 college_name VARCHAR(5),
3 clg_id VARCHAR(5),
4 place VARCHAR(5),
5 std_strength NUMBER,
6 total_branches NUMBER,
7 total_blocks NUMBER,
8 PRIMARY KEY(clg_id)
9*)
SQL-CSE530>/
Table created.
```



ALTER TABLE:

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

```
SQL-CSE530>ALTER TABLE college
  2 ADD clg_fee NUMBER NOT NULL;
Table altered.
SQL-CSE530>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
```

```
SQL-CSE530>ALTER TABLE college
     DROP COLUMN total_blocks;
Table altered.
SQL-CSE530>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-CSE530>CREATE TABLE products(
2 p_name VARCHAR(10) NOT NULL,
3 p_id NUMBER NOT NULL,
4 PRIMARY KEY(p_id)
5 );

Table created.

SQL-CSE530>DROP TABLE products;

Table dropped.

SQL-CSE530>DESC products;

ERROR:
ORA-04043: object products does not exist
```

SQL-CSE530>ALTER TABLE college
2 ADD clg_fee NUMBER NOT NULL;

Table altered.

SQL-CSE530>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

RENAME TABLE:

To rename table_name, column_name

SYNTAXES:

RENAME new_table_name TO old_table_name;

```
SQL-CSE530>RENAME college to data;
Table renamed.
SQL-CSE530>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-CSE530>TRUNCATE TABLE data;
Table truncated.
```

