

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.
```

```
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
```

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 | | NUMBER |

```
SQL-CSE530>ALTER TABLE college
  2  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.
```

