

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]);
```

```
C##547>SPOOL EXP_1.TXT  
C##547>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 PRIMARY KEY(clg_id)  
8 )  
9 /
```

Table created.

```
C##547>DESC college;
```

Name	Null?	Type
COLLEGE_NAME		VARCHAR2(5)
CLG_ID	NOT NULL	VARCHAR2(5)
PLACE		VARCHAR2(5)
STD_STRENGTH		NUMBER
TOTAL_BRANCHES		NUMBER

ALTER TABLE :

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

```
C##547>ALTER TABLE college
  2  ADD clg_fee NUMBER NOT NULL;
```

Table altered.

```
C##547>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

```
C##547>ALTER TABLE college
  2  DROP COLUMN total_branches;
```

Table altered.

```
C##547>DESC college;
```

Name	Null?	Type
COLLEGE_NAME		VARCHAR2(5)
CLG_ID	NOT NULL	VARCHAR2(5)
PLACE		VARCHAR2(5)
STD_STRENGTH		NUMBER
CLG_FEE	NOT NULL	NUMBER

DROP TABLE:

Deletes the specified table.

SYNTAX:

DROP TABLE table_name;

```
C##547>CREATE TABLE products(
  2  p_name VARCHAR(10) NOT NULL,
  3  p_id NUMBER NOT NULL,
  4  PRIMARY KEY(p_id)
  5  );
```

Table created.

```
C##547>DROP TABLE products;
```

Table dropped.

```
C##547>DESC products;
```

ERROR:

ORA-04043: object products does not exist

```
C##547>ALTER TABLE college
  2 ADD clg_fee NUMBER NOT NULL;
```

Table altered.

```
C##547>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

RENAME TABLE:

To rename table_name, column_name

SYNTAXES:

RENAME new_table_name TO old_table_name;

```
C##547>RENAME college to data;
```

Table renamed.

```
C##547>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;

```
C##547>TRUNCATE TABLE data;
```

Table truncated.