

## 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]) ] [,

```
SQL> CREATE TABLE employees (
2     employee_id INT PRIMARY KEY,
3     first_name VARCHAR(50),
4     last_name VARCHAR(50),
5     job_title VARCHAR(100),
6     hire_date DATE,
7     salary DECIMAL(10, 2)
8 );
```

Table created.

```
SQL> DESC employees;
```

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER(38)
FIRST_NAME		VARCHAR2(50)
LAST_NAME		VARCHAR2(50)
JOB_TITLE		VARCHAR2(100)
HIRE_DATE		DATE
SALARY		NUMBER(10,2)

## ALTER TABLE :

```
SQL> ALTER TABLE employees
  2  ADD email VARCHAR(100);
```

Table altered.

```
SQL> DESC employees;
```

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER(38)
FIRST_NAME		VARCHAR2(50)
LAST_NAME		VARCHAR2(50)
JOB_TITLE		VARCHAR2(100)
HIRE_DATE		DATE
SALARY		NUMBER(10,2)
EMAIL		VARCHAR2(100)

```
SQL> ALTER TABLE employees
  2  DROP COLUMN hire_date;
```

Table altered.

```
SQL> DESC employees;
```

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER(38)
FIRST_NAME		VARCHAR2(50)
LAST_NAME		VARCHAR2(50)
JOB_TITLE		VARCHAR2(100)
SALARY		NUMBER(10,2)
EMAIL		VARCHAR2(100)

## **DROP TABLE:**

Deletes the specified table.

## **SYNTAX:**

DROP TABLE table\_name;

```
SQL> CREATE TABLE example_table (  
2      id INT PRIMARY KEY,  
3      name VARCHAR(50),  
4      date_of_birth DATE  
5  );
```

Table created.

```
SQL> DROP TABLE example_table;
```

Table dropped.

```
SQL> DESC example_table;
```

ERROR:

ORA-04043: object example\_table does not exist

## **RENAME TABLE:**

To rename table\_name, column\_name SYNTAXES:

RENAME new\_table\_name TO old\_table\_name;

```
SQL> RENAME employees to employee;
```

```
Table renamed.
```

```
SQL> desc employee;
```

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER(38)
FIRST_NAME		VARCHAR2(50)
LAST_NAME		VARCHAR2(50)
JOB_TITLE		VARCHAR2(100)
SALARY		NUMBER(10,2)
EMAIL		VARCHAR2(100)

### TRUNCATE TABLE:

To remove all rows in a specified table.

### SYNTAX:

```
TRUNCATE TABLE table_name;
```

```
SQL> TRUNCATE TABLE employee;
```

```
Table truncated.
```





