Ex. No: 2   **SQL DDL COMMANDS**

Date: 13/01/22

AIM: To write SQL queries to execute different DDL commands.

Data base created for this exercise is:

```
SQL> select * from Student;

   REGNO NAME          BRANC SECTI      SUB       SUB2
---------- -------------- ----- ----- ---------- ----------
        1 a             CSE   A2         78         83
        2 b             Mech  B2         89         85
        3 c             Elect D1         65         74
        4 d             CSE   E2         94         96
        5 e             Mech  G1         75         84
```

DDL Commands:

- **Create -** Used to create a table

  Syntax,

  CREATE TABLE table_name(field1 datatype1, field2 datatype2, …);

  Example,

  SQL> create table student(id int, name varchar(20), marks int);

  Table created.

- **Drop -** Used to drop the table

  Syntax,

  DROP TABLE table_name;

  Example,

  SQL> drop table student_details;

  Table dropped.

- **Alter -** Used to alter the table (add/delete/modify column, rename the table)

  Syntax,

  ALTER TABLE table_name add column_name datatype;

  ALTER TABLE table_name drop(column_name);

  ALTER TABLE table_name modify column_name datatype;

  ALTER TABLE table_name rename to new_table_name;

  Example,

  SQL> alter table student add branch varchar(5);

  Table altered.

  SQL> alter table student drop (branch);

  Table altered.

SQL> alter table student modify name varchar(50);

Table altered.

SQL> alter table student rename to student_details;

Table altered.

SQL> create table student(id int, name varchar(20), marks int);

Table created.

SQL> insert into student values(1,'a',96);

1 row created.

SQL> insert into student values(2,'b',90);

1 row created.

SQL> insert into student values(3,'c',75);

1 row created.

SQL> insert into student values(4,'d',87);

1 row created.

SQL> insert into student values(5,'e',99);

1 row created.

SQL> select * from student;

```
        ID NAME                MARKS
---------- -------------------- ----------
         1 a                       96
         2 b                       90
         3 c                       75
         4 d                       87
         5 e                       99
```

SQL> alter table student add branch varchar(5);

Table altered.

SQL> select * from student;

```
        ID NAME              MARKS BRANC
---------- -------------------- ---------- -----
         1 a                      96
         2 b                      90
         3 c                      75
         4 d                      87
         5 e                      99
```

SQL> alter table student drop branch;
alter table student drop branch
                 *
ERROR at line 1:
ORA-00905: missing keyword

SQL> alter table student drop (branch);

Table altered.

SQL> select * from student;

```
        ID NAME              MARKS
---------- -------------------- ----------
         1 a                      96
         2 b                      90
         3 c                      75
         4 d                      87
         5 e                      99
```

SQL> describe student;
```
 Name                                   Null?   Type
 ---------------------------------------- -------- --------------------------
 ID                                               NUMBER(38)
 NAME                                             VARCHAR2(20)
 MARKS                                            NUMBER(38)
```

SQL> alter table student modify name varchar(50);

Table altered.

SQL> describe student;
```
 Name                                   Null?   Type
 ---------------------------------------- -------- --------------------------
 ID                                               NUMBER(38)
 NAME                                             VARCHAR2(50)
 MARKS                                            NUMBER(38)
```

SQL> alter table student rename to student_details;

Table altered.

SQL> select * from student_details;

```
    ID NAME                                          MARKS
---------- ------------------------------------------------ ----------
      1 a                                            96
      2 b                                            90
      3 c                                            75
      4 d                                            87
      5 e                                            99
```

SQL> drop table student;
drop table student
        *
ERROR at line 1:
ORA-00942: table or view does not exist

SQL> drop table student_details;

Table dropped.

SQL> spool off

Result:

Thus the DDL commands are used to modify or manipulate data records present in the customer database tables.