

Aim:

To implement ALTER, UPDATE, DELETE, and DROP commands.

Theory:

1. ALTER:

- **ALTER TABLE ... ADD ...:** This is used to add some extra fields into existing relation.

- **Syntax:**

```
ALTER TABLE relation_name ADD (new_field_1 data_type(size), new_field_2 data_ty
```

- **Example:**

```
ALTER TABLE std ADD (Address CHAR(10));
```

- **ALTER TABLE ... MODIFY ...:** This is used to change the width as well as data type of fields of existing relations.

- **Syntax:**

```
ALTER TABLE relation_name MODIFY (field_1 newdata_type(size), field_2 newdata_
```

- **Example:**

```
ALTER TABLE student MODIFY (sname VARCHAR(10), class VARCHAR(5));
```

- **ALTER TABLE ... DROP ...:** This is used to remove any field of existing relations.

- **Syntax:**

```
ALTER TABLE relation_name DROP COLUMN field_name;
```

- **Example:**

```
ALTER TABLE student DROP COLUMN sname;
```

- **ALTER TABLE ... RENAME ...:** This is used to change the name of fields in existing relations.

- **Syntax:**

```
ALTER TABLE relation_name RENAME COLUMN old_field_name TO new_field_name
```

- **Example:**

```
ALTER TABLE student RENAME COLUMN sname TO stu_name;
```

2. **DROP TABLE:** This is used to delete the structure of a relation. It permanently deletes the records in the table.

- **Syntax:**

```
DROP TABLE relation_name;
```

- **Example:**

```
DROP TABLE std;
```

3. **RENAME:** It is used to modify the name of the existing database object.

- **Syntax:**

```
RENAME TABLE old_relation_name TO new_relation_name;
```

- **Example:**

```
RENAME TABLE std TO std1;
```

4. **UPDATE-SET-WHERE:** This is used to update the content of a record in a relation.

- **Syntax:**

```
UPDATE relation_name SET field_name1 = data, field_name2 = data WHERE field_name
```

- **Example:**

```
UPDATE student SET sname = 'kumar' WHERE sno = 1;
```

5. **DELETE-FROM:** This is used to delete all the records of a relation but it will retain the structure of that relation.

- **Syntax:**

```
DELETE FROM relation_name;
```

- **Example:**

```
DELETE FROM std;
```

6. **DELETE-FROM-WHERE:** This is used to delete a selected record from a relation.

- **Syntax:**

```
DELETE FROM relation_name WHERE condition;
```

- **Example:**

```
DELETE FROM student WHERE sno = 2;
```

conclusion: hence we successfully implemented Alter, Update, Delete and Drop Commands in sql