



Experiment 4: Implementation of Alter, Update, Delete and Drop

Aim: To implement Alter, Update, Delete and Drop commands

Theory:

1. ALTER:

(a) **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_type(size),...);

Example: SQL>ALTER TABLE std ADD (Address CHAR(10));

(b) **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_type(Size), ... field_newdata_type(Size));

Example:SQL>ALTER TABLE student MODIFY(sname VARCHAR(10),class VARCHAR(5));

c) **ALTER TABLE..DROP** This is used to remove any field of existing relations.

Syntax: ALTER TABLE relation_name DROP COLUMN (field_name);

Example:SQL>ALTER TABLE student DROP column (sname);

d)**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: SQL>ALTER TABLE student RENAME COLUMN sname to stu_name;

3. **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:**

SQL>DROP TABLE std;

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

Syntax: RENAME TABLE old_relation_name TO new_relation_name;

Example: SQL>RENAME TABLE std TO std1;

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

Syntax: SQL>UPDATE relation name SET Field_name1=data,field_name2=data, WHERE field_name=data;

Example: SQL>UPDATE student SET sname = 'kumar' WHERE sno=1;

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

c) DELETE-FROM: This is used to delete all the records of relation.

Syntax: SQL>DELETE FROM relation_name;

Example: SQL>DELETE FROM std;

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

Syntax: SQL>DELETE FROM relation_name WHERE condition;

Example: SQL>DELETE FROM student WHERE sno = 2;

Conclusion: To be written by students

LAB PRACTICE ASSIGNMENT:

Create a table EMPLOYEE with following schema:

(Emp_no, E_name, E_address, E_ph_no, Dept_no, Dept_name, Job_id , Salary)

Write SQL queries for following question:

1. Insert atleast 5 rows in the table.
2. Display all the information of EMP table.
3. Display the record of each employee who works in department D10.
4. Update the city of Emp_no-12 with current city as Nagpur.
5. Display the details of Employee who works in department MECH.
6. Delete the email_id of employee James.
7. Display the complete record of employees working in SALES Department.