**PAPER – IV PRACTICAL NO. : 02**

**AIM :CREATE AN XML DATABASE AND DEMONSTRATE INSERT, UPDATE AND DELETE OPERATIONS ON THESE TABLES. ISSUE QUERIES ON IT.**

**ROLL NO. : 02 BATCH : M.SC PART-I**

**DATE : / /22**

**Create a table employee having ( dept id: number, employee\_spec: XMLType). The employee\_spec is a schema with attributes emp\_id, name, email, acc\_no, managerEmail, date\_of\_joining. Insert 5 tuples into the employee table. Fire the queries on XML database.**

**CODE :**

SQL>connect

Enter user-name: system

Enter password:

Connected.

1. **Creating table with XMLType :**

SQL> create table employee(Emp\_id number(3),Emp\_specification XMLType);

Table created.

1. **Inserting values into “employee” table :**

SQL> insert into employee values(100, XMLType('<Employees><Emp id="1"><name>Rashmi Kalsekar</name><email>rrkalsekar@gmail.com</email><acc\_no>111</acc\_no><dateofjoining>1990-03-02</dateofjoining></Emp></Employees>'));

1 row created.

SQL> insert into employee values(200, XMLType('<Employees><Emp id="2"><name>Zeba Siddique</name><email>zebasdq@gmail.com</email><acc\_no>222</acc\_no><dateofjoining>1998-05-02></dateofjoining></Emp></Employees>'));

1 row created.

SQL> insert into employee values(300, XMLType('<Employees><Emp id="3"><name>Fiza Shirgaonkar</name><email>fizas@gmail.com</email><acc\_no>333</acc\_no><dateofjoining>1990-03-09></dateofjoining></Emp></Employees>'));

1 row created.

SQL> insert into employee values(400, XMLType('<Employees><Emp id="4"><name>Sarika Patankar</name><email>sarikap@gmail.com</email><acc\_no>111</acc\_no><dateofjoining>1990-11-19></dateofjoining></Emp></Employees>'));

1 row created.

SQL> insert into employee values(500, XMLType('<Employees><Emp id="5"><name>Zobiya Bhande</name><email>zobi@gmail.com</email><acc\_no>555</acc\_no><dateofjoining>1990-12-09></dateofjoining></Emp></Employees>'));

1 row created.

**QUERIES ON XML DATABASE :**

**a] Retrieve the names of employees from the employee table :**

SQL> SELECT w.Emp\_specification.extract('/Employees/Emp/name/text()').getStringVal() "name" FROM employee w;

name

--------------------------------------------------------------------------------

Rashmi Kalsekar

Zeba Siddique

Fiza Shirgaonkar

Sarika Patankar

Zobiya Bhande

**b] Retrieve the acc\_no of employees from the employee table :**

SQL> SELECT w.Emp\_specification.extract('/Employees/Emp/acc\_no /text()').getStringVal() "acc\_no" FROM employee w;

acc\_no

--------------------------------------------------------------------------------

111

222

333

111

555

**c] Retrieve the names, acc\_no, emails of employee from the employee table :**

SQL> SELECT w.Emp\_specification.extract('/Employees/Emp/name/text()').getStringVal() "name", w.Emp\_specification.extract('/Employees/Emp/acc\_no /text()').getStringVal() "acc\_no", w.Emp\_specification.extract('/Employees/Emp/email /text()').getStringVal() "email " FROM employee w;

name

--------------------------------------------------------------------------------

acc\_no

--------------------------------------------------------------------------------

email

--------------------------------------------------------------------------------

Rashmi Kalsekar

111

rrkalsekar@gmail.com

Zeba Siddique

222

zebasdq@gmail.com

name

--------------------------------------------------------------------------------

acc\_no

--------------------------------------------------------------------------------

email

--------------------------------------------------------------------------------

Fiza Shirgaonkar

333

fizas@gmail.com

Sarika Patankar

111

name

--------------------------------------------------------------------------------

acc\_no

--------------------------------------------------------------------------------

email

--------------------------------------------------------------------------------

sarikap@gmail.com

Zobiya Bhande

555

zobi@gmail.com

**d] Update the third record from the table and display the name of employees :**

SQL> UPDATE employee w SET Emp\_specification=XMLType('<Employees><Emp id="3"><name>Omkar Bhatkar</name></Emp></Employees>') WHERE w.Emp\_specification.extract('/Employees/Emp/acc\_no/text()').getStringVal()='333';

1 row updated.

SQL> SELECT w.Emp\_specification.extract('/Employees/Emp/name/text()').getStringVal() "name" FROM employee w;

name

--------------------------------------------------------------------------------

Rashmi Kalsekar

Zeba Siddique

Omkar Bhatkar

Sarika Patankar

Zobiya Bhande

**e] Delete the fifth record from the table :**

SQL> DELETE FROM employee w WHERE w.Emp\_specification.extract('/Employees/Emp/acc\_no/text()').getStringVal()='555';

1 row deleted.

SQL> SELECT w.Emp\_specification.extract('/Employees/Emp/name/text()').getStringVal() "name" FROM employee w;

name

--------------------------------------------------------------------------------

Rashmi Kalsekar

Zeba Siddique

Omkar Bhatkar

Sarika Patankar

SQL>