

Task - 10
CRUD OPERATION: IN DOCUMENT

Date: 13/10/23

DATABASES

Aim:

To CRUD operations in document data bases.

College management database in SQL.

Step 1: Create Database:

```
CREATE DATABASE college DB;  
USE college DB;
```

Step 2: Create Tables -

```
CREATE TABLE STUDENT  
Student_id INT PRIMARY KEY  
AUTO_INCREMENT  
Name VARCHAR(200)  
rollno: VARCHAR(200) INDEX,  
credit INF
```

);

```
CREATE TABLE STAFF  
Staff_id INT primary key.
```

Name VARCHAR (100) ;
role VARCHAR (50)
department VARCHAR (50) ;
);

Step 3: Insert Records :

INSERT INTO Students (name , roll no,
department, age)

(Bob Smith' , 'S102' , mechanical
; 21)

charline Brown 'S103' , civil ; 19);

INSERT INTO Students (name , roll no, department,
age)

(Bob Smith' , 'S102' , mechanical ; 21)

C charline Brown 'S103' , civil ; 19);

COURSES :

INSERT INTO COURSES
(course name , course code, d its
values .

INSERT INTO STAFF (name, ~~role~~
role, department) values :

c Database

b) John;

P₁ = ~~Bob~~ Smith ; lecturer ; computer
Science)

(Dr. Joh ; lecture ; 'Mechanical')

Step 4: Read / query records.

Select * from student where
department = 'computer science'

| S.no | Name | Roll.no | department | age |
|------|-------|---------|------------------|-----|
| 1. | Alice | S101 | computer science | 20 |

Select * from courses where credits = 4;

| Sno | course-name | coursecode | credits |
|-----|---------------------|------------|---------|
| 1. | database systems | CS301 | 4 |
| 2. | structural Analysis | CE101 | 4 |

Step 5: update Records:

UPDATE student,

SET age = 21

WHERE Roll-no = 'S101'

UPDATE courses

SET credits = 4

WHERE course = code = 'ME201';

Step 6: Delete Records

DELETE From student WHERE Rollno='5105'

DELETE FROM courses WHERE course_code,
= 'CE101'

DELETE from staff WHERE Name = 'Dr. John'

CREATE - New → Relationships

CREATE (S1: Student Rollno: 5105)

CREATE (S2: Student 2nd)

CREATE (C1: Courses 1st)

CREATE (C2: Courses 2nd)

CREATE (C3: Courses 3rd)

CREATE (C4: Courses 4th)

| VELTECH | |
|-------------------------|------------|
| NO. | 8 |
| PERFORMANCE (5) | 8 |
| RESULT AND ANALYSIS (5) | 5 |
| VIVA VOCE (5) | 2 |
| RECORD (5) | |
| TOTAL (20) | 15 |
| SIGN WITH DATE | 13/10/2023 |

Result:

Thus, the CROD operations in
document databases is executed
successfully.