13/10/25 TASK 10:- CROD OPERATION in document.

database

Aim:- TO CROD operations in document databases

college magement Database in SQL

STEP 1:- Create Database

CREATE DATABASE COLLEGE DB;
    USE college DB;

Step 2:- create Tables.

```sql
CREATE TABLE STUDENTS (
    student - id INT PRIMARY KEY AUTO-INCREMENT,
    name VARCHAR (100),
    roll- NO VARCHAR (20) UNIQUE,
    department VARCHAR (30), U
    age INT.
);

CREATE TABLE COURSE (
    course - id INT PRIMARY KEY AUTO-INCREMENT
    course - name VARCHAR (100),
    course code VARCHAR (20) UNIDE,
    credits INT.
);

CREATE TABLE STAFF (
    staff-id . INT PRIMARY KEY AUTO
    INCREMENT,
```

```
        name    VARCHAR(100),
        role  VARCHAR(50),
        department  VARCHAR(50)
    );
```

Step 3: Insert Records

```
INSERT INTO Students (name, roll-no, department
                                                age).
VALUES ('ALICE Johnson, 'S101' (computer science')

INSERT INTO STUDENTS (name, roll-no, department
                                                age).
```

courses

```
INSERT INTO Course (course-name, course-code,
values.                                   credits).
   ('Data base / system1, ('CS 301',4),
   ('Thermodynamics', ('ME201', 3),
   ('Structural analysis, ('101', 4);
```

staff

```
insert INTO Staff (name, role, department)
VALUES.
  ('Dr Smith', 'Professor', ('computer science'),
  ('Dr. John', 'lecturer', ('Mechanical'),
  ('Dr. Anne', 'HOD, (civil);
```

Delete

```
async function delete student (N){
    const result = await student find By.
              Id AND Delete (id)
    console.log( Deleted student.", result);
}
node app.js.
```

OUTPUT

STUDENT. created :{
    _id : 652uevet2aA9 6 5 bdc,ab/234
name : 'omkas)
age : 21
course : 'computer science'.
grade : 'A)
. V = 0

}
All student :[
    { -id!..., name : 'omka?' , age 21 course .
         computer science'; grade: 'A')
]
Update student :{...grade :(A +)}
Delete student : {....}

VELTECH	
EX No.	
PERFORMANCE (5)	10
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	13/00/0

Result:- The implementation of curD operation. like
creating, inserthing, finding and removing
operation using mongoDB is executed successfully