Date:- 20/10/25

Task 11:- CRUD operations IN GRAPH DATABASE

Aim:- To perform CRUD operation syn a graph database.

CREATE - Nodes & relationships
CREATE (S1: student {id=1, name = 'vinay', 21)
CREATE (S2: student {id=2, name; 'Nishika', age 19)
CREATE (C1: course {id:10, name: Computer Sciences})
CREATE (S1: (: ENROLLED-IN}->(C1)
CREATE (S2)-L: ENROLLED-IN]-(C2);

READ. querydata
MATCH (S: student) - (ENROLLED - IN})
(C: -course)
Return S name - C name;

output:-

vinay → computer science
Nisho → Data structure

UPDATE
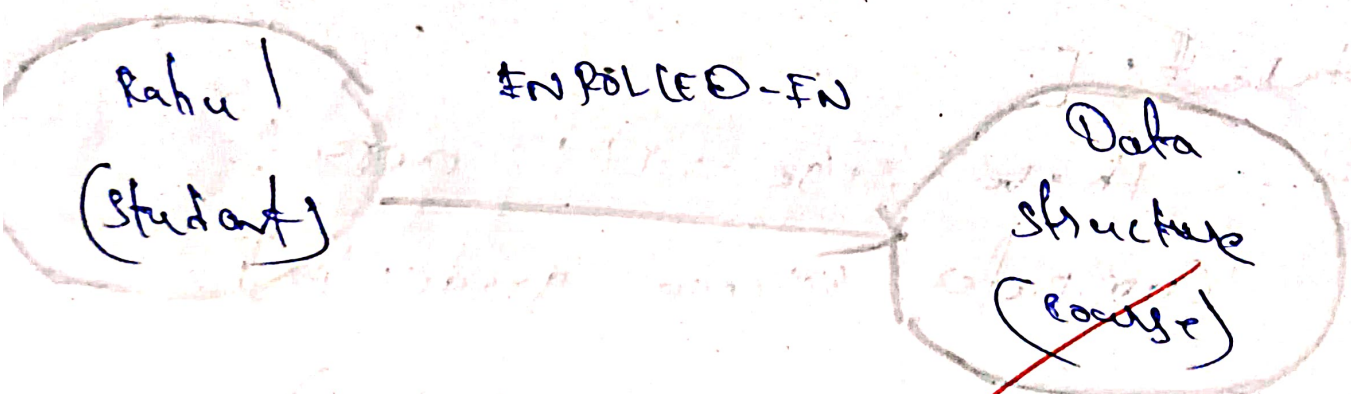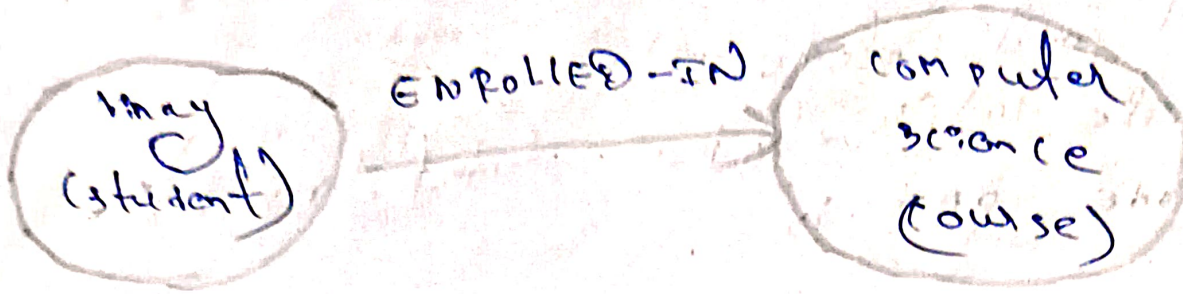MATCHLS:- student {name:' vinay'})
SP2 + S.o.ge = 22, S.city : Hyderabad
RETURNS:-
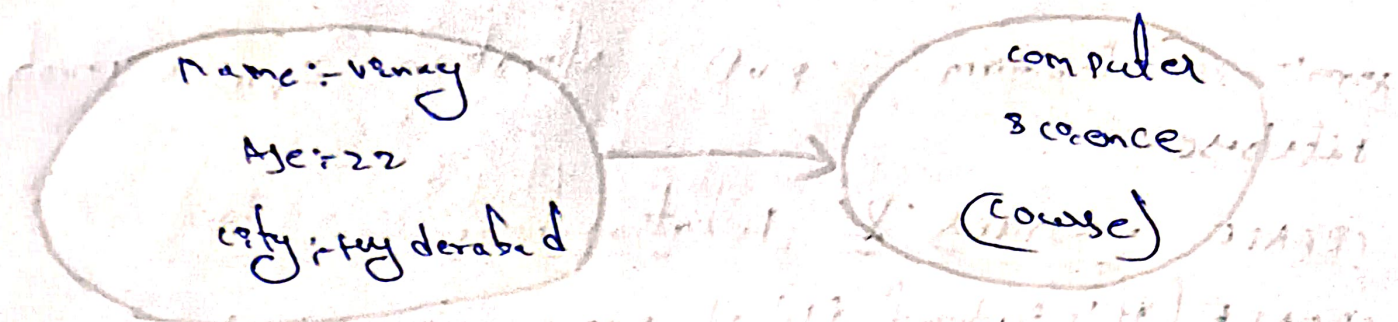
name = vinay → computer science
Use =2
city = Hyderabad

Delete;

MATCH (S: student {name=(nish;'})-
(r: ENROLLED:IN}->(C: course)

Vinay
(student)

ENROLLED-IN

computer
science
(course)

Rahul
(student)

ENROLLED-IN

Data
Structure
(course)

UPDATE :-

Name :- Venay

Age :- 22

city :- Hyderabad → computer science (course)

output :-

Venay (students) ———— ENROLLED-IN ————→ computer science (course)
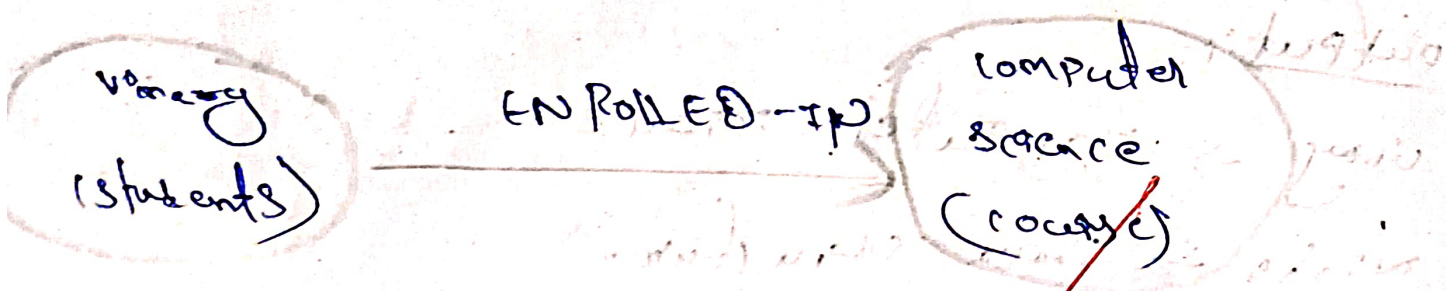
DELETE r;

Vinay => ENROLLED —IN=> computer science.

Result: the implement of CRUD operations like creating, updating, Reading & deletions operations using graph DB is successfully executed.