

(13/10/25)

Task - II

CRUD operations

Graph Database

Aim: To perform CRUD operations on a graph database.

CREATE - Nodes & Relationships

CREATE (S1: Student {id: 1, name: 'shriram',
age: 21})

CREATE (S2: Student {id: 2, name: 'Rahul',
age: 23})

CREATE (C1: Course {id: 101, name: 'computer science'})

CREATE (C2: Course {id: 102, name: 'Data structure'})

CREATE (S1) - [: ENROLLED : IN] -> (C1)

CREATE (S2) - [: ENROLLED : IN] -> (C2);

READ - Query data

MATCH (S: Students) - [: ENROLLED - IN] -> (C: course)

RETURN S.name, C.name;

Shravan
(Student)

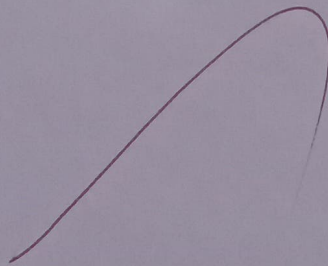
ENROLLED-IN

Computer
Science.
(Course)

Rahul
(Student)

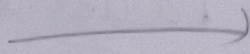
ENROLLED-IN

Data
structure
(Course)



UPDATE

Name: Shrawan
age : 22
City : Hyderabad

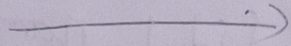


Computer
Science
(course)

DELETE

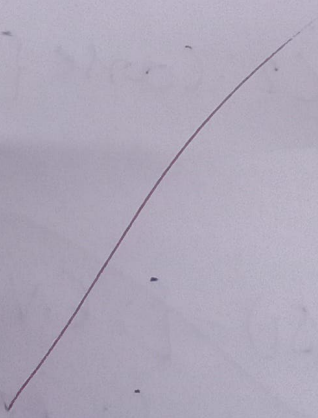
Shrawan
(Student)

ENROLLED-IN



Computer
Science
Course

Rahul is disconnected



Res

Computer
Science
(course)

Computer
Science
course

OUTPUT

Shravan → Computer Science

Rahul → Data Structure

UPDATE

MATCH (S: Student {name: 'shravan'})

SET S.age = 22, S.city = 'Hyderabad'.

RETURNS:

name: shravan

age: 22

city: Hyderabad

→ Computer Science

DELETE

MATCH (S: Student {name: 'Rahul'}) →

[x: ENROLLED: IN] → (c: course)

DELETE;

shravan - ENROLLED - IN → Computer

Science

VEL TECH - CSE	
EX NO.	11
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	16
SIGN WITH DATE	

Result: Thus, the ~~CRUD~~ operations
are graph database ⁽³⁾ executed
successfully.