

13/10/25

## TASK-11

### CRUD operations on Graph Database:

Aim: To perform crud operations in a graph database.

#### Create - nodes & relationships:

create (s1 = student -1 {id=1, name: vinay21})

create (s2 = student -1 {id=2, name: pavan, age2})

create (c1:course {id=10, name: C-S-E})

create (c2:course {id=10, name: D-S-Y})

create (s1) = (ENROLLED-IN)->(c1)

create (s2)-1 = ENROLLED-IN->(c2)

#### Read - query data:

match (s:student)->(ENROLLED-IN)->(c:course).

return s.name - c.name;

#### Output:

vinay - C-S-E

return: s.name - c.name

Output: vinay → C-S-E

nrsai → D-S-Y

#### Updating:

match (s:student {name: vinay})

SET s.age = 22, s.city = Hyderabad

return s;

name = vinay

age = 22

city = hyderabad → C-S-E

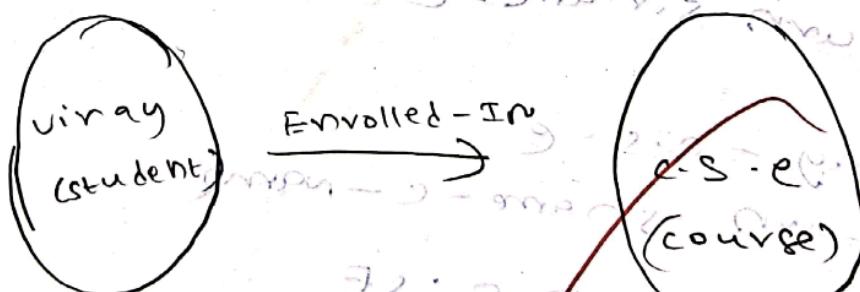
11 - SP2AT

~~2nd year diploma in computer science~~  
 1st year diploma in computer science  
Update:

~~2nd year diploma in computer science~~  
 (C-S-E) = (S-E) + (E-C)  
 (S-E) = (S-E) + (E-C)  
 (E-C) = (E-C) + (C-E)  
 (C-E) = (C-E) + (E-C)

(12) - Enrol - (12) = (12) - Enrol

Delete



~~(C-E) = (C-E) + (E-C)~~

~~Enrolment = Enrol - (C-E)~~

DELETE:

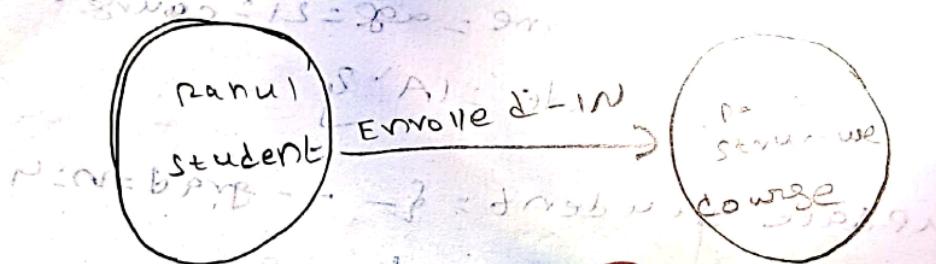
match CS: student of name : vinay  
(v: enrolled -IN] -CC: course)

Delete:-

vinay -enrolled -IN → C.S.E

VELTECH	
EX No.	13
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	9
VIVA VOCE (5)	6
RECORD (5)	
TOTAL (20)	16
SIGN WITH DATE	13/10/2022

Result: The implementation of CRUD operations like creating, updating, reading, deleting operations using graph DB is successfully executed.



HOMEWORK	
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Relationships and their descriptions:

- Ravul is a student.
- Ravul is enrolled in the C.S.E. course.
- Ravul has completed 100 assignments.

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