

17/10

## Task - 11

### CRUD operations In Graph Database.

Aim:

To perform CRUD operations like creating, inserting, querying on graph spaces.

- create Node with properties.

Properties are the key value pairs using which a node store data. You can create node with properties using the create clause.

Syntax:

```
CREATE (node: label {key1: value, key2: value, ...})
```

- Returning the create Node query, in the dollar prompt

Match (n) Return n

- Creating Relationships.

We can create a relationship using the create clause we will specify a relation within the square braces "[]" depending on the direction of the relationship

Syntax:

```
create (node 1) - [: Relationship type] -> [node 2].
```

output

vij

ESE

Dhar

John

output

vijay

Dharsana

John

• Creating a relationship b/w the existing Nodes.

You can also create a relationship b/w the existing nodes

Syntax:

Match (a: label of Node 1). (b: label of Nodes)

where a name = "name of nodes" And b name = "name of node 2"

CREATE (a) - [: Relation] -> (b)

Return a.b

• Deleting a particular node

To delete a particular node, you need to specify the details of the Node.

Syntax:

Match (node: label {properties...})

Detach Delete node.

create a graph database for student course registration.

create (n: student { sid: "VTU14500",

s.name: "John",

dept name: "CSE" }

)

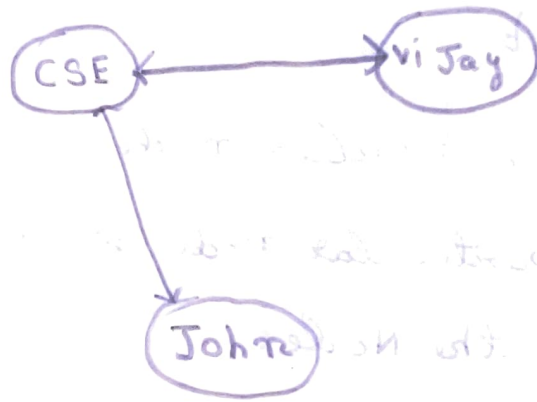
output

studied at  
CSE  
vijay

... ..  
 ... ..  
 ... ..

... ..  
 output ... ..  
 ... ..

... ..



... ..  
 ... ..

... ..  
 ... ..  
 ... ..

output

```
create (n: student {s.id: "VTU14501",  
s.name: "Dharsana",  
deptname: "EEE"})
```

```
create (n: student {sid: "VTU14502",  
s.name: "vijay",  
deptname: "CSE"})
```

select all the nodes in your DB using  
match command.

- match(n) return (n).

a) create relational between student and CSE  
match(s: student), (d: dept) where s.sname = 'vijay'  
AND d.dept = 'cse'  
create(s) - [s: student -> d] -> (d)  
return s, d.

b) Delete a node from student  
match(n: student {s.name: "Dharsana"}) Delete(n)

Result: Thus, the implementation of CRUD  
is successfully executed.

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