

Task - 11

17/10

CRUD operations In graph Database.

Aim:

To perform CRUD operations like creating, inserting, querying or 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 the relation within the square braces "[]" depending on the direction of the relationship

Syntax:

`create (node1)-[:Relationship type]→[node2].`

Output

output

vij

CSE

Dhara

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 Node 2)

where a.name = "name of node 1" 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 task, when to move from one to next

$[s] \leftarrow \text{last}(\sigma)$ if $(\sigma) \neq \epsilon$



Johnson et al. 2003

output

```
create (n: student {s.id: "VTU14S01",
s.name: "Dharshana",
deptname: "EEE"})
```

```
create (n: student {s.id: "VTU14S02",
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'
```

```
match (s: student), (d: dept) where s.sname = 'vijay'
```

```
AND d.dept = 'cse'
```

```
create (s)-[s: Studied-at]-(d)
```

return s, d.

b) Delete a node from student

```
match (n: student {s.name: "Dharshana"}) delete (n)
```

Result: Thus, the implementation of CRUD

VEL TECH-CSE

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

is successfully executed.