

TASK 11: CRUD OPERATIONS IN GRAPH DATABASES

Date: 10/9/22

AIM:

To perform CRUD operation like creating, inserting, querying, finding, deleting operations on graph spaces

1) Create Node with properties

properties are the key-value pairs using which a node stores data. You can create a node with properties using the CREATE clause. You need to specify these properties separated by commas with in the flower braces "{}".

Syntax:

Following is the syntax to create a node with properties.

```
CREATE Node: (label & key 1: value 1 / key 2:  
value 2 ..... y)
```

* Returning the created node

To verify the creation of the node, type and execute the following query in the dot prompt.

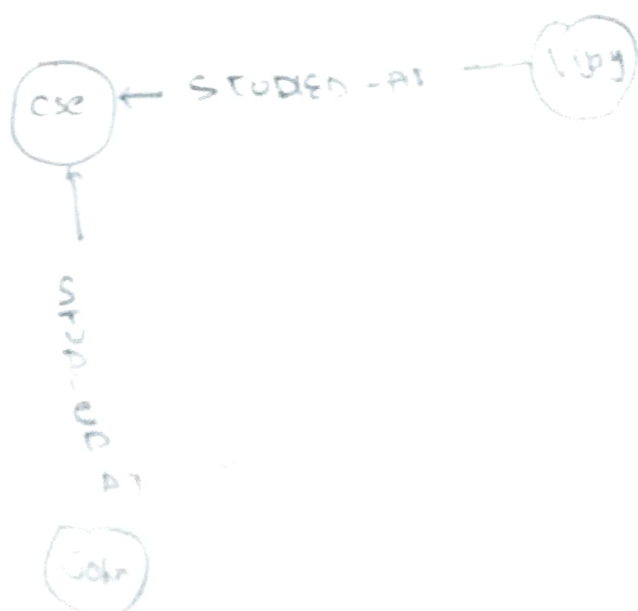
```
MATCH (n) RETURN n
```

* Creating Relationships

We can create a relationship using the CREATE clause. We will specify relationship with in the square braces "[]" depending on the direction of the relationship. It is placed between type ten "-" and arrow "→" as shown in the following syntax.



Draw
Summary



Syntax

Following is the Syntax to create a relation structure using the CREATE clause. We will specify relation with the square braces "[]" depending on the direction of the relation ship it is placed between hyphen "-" and arrow "→" as shown in the following syntax.

Syntax

Following is the Syntax to create a relation ship using the MATCH clause.

MATCH (a:Label of Node1), (b:Label of Node2)

WHERE a.name = "name of node 1" AND
b.name = "name of node 2"

CREATE (a)-(Relation)→(b)

RETURN a, b

A) Deleting a particular node

To delete a particular node (you need to specify the details of the node in the place of "n" the above query.

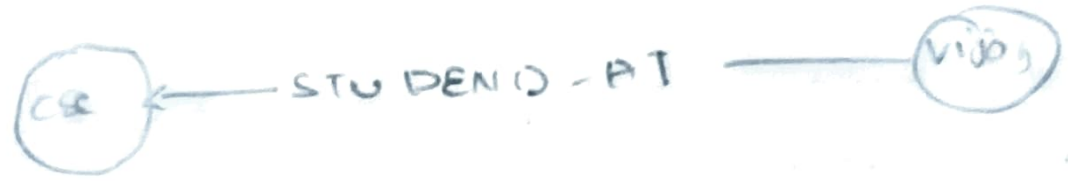
Syntax:

Following is the Syntax to delete a particular node from Neo4j using the DELETE clause

MATCH (Node: label {properties...})

DETACH DELETE Node

QUESTION 1: AQAAM 03
10/11/2017



create a graph database for student
course, registration, create student and
dept node and insert values of properties.
create Cn:student {sid: "VTU1450"

sname: "John",

dept name: "CSE" }

OUTPUT

Added 1 label, created 1 node, set 3
properties, completed after 232 ms.

create Cn:student {sid: "VTU1450" }

sname: "vijay",

dept name: "CSE" }

}

OUTPUT

Added 1 label, created 1 node, set 3 properties,
completed after 205

create Cn:dept {dept name: "CSE", deptid:
"d001" }

OUTPUT:

Added 1 label, created 1 node, set 2
properties, completed after 205

Select all the nodes in your database
using match command

* match (c) return (c)



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|---------------------|----|
| EX NO. | 11 |
| PERFORMANCE | ✓ |
| THEORY AND ANALYSIS | ✓ |
| RESULTS | ✓ |
| CONCLUSION | ✓ |
| SIGNATURE | |

Result:- Thus the experiment was CARVED operations on graph notaboss was successfully completed.