

Task: 11

Date: 14/10/25

CRUD operation in Graph Data Base

Aim:

To perform crud operations like create, inserting, querying, finding, deleting operations on graph spaces.

Create node with properties:

properties are the keyvalue pairs using which a node stores data you can create a node with properties

Syntax:

`create (node label) key1: Value, key2: Value, ... }`

* Returning the created node

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

`MATCH (n) Return .`

* Creating relationship.

We can create a relationship using the create clause We will specify relationship within to some boxes " {}

Syntax:

`CREATE (node 1) - [relationshipType] -> (node 2)`

* Creating a relationship between the nodes you can also create a relationship using the create clause.

Syntax:

Create

`MATCH (a: label of node 1), (b: label of node 2)`

Let here a.name = "name of node 1" AND b.name = "name of node 2".

CREATE (a) - [relation n] → (b)

Return a, b

* Deleting a particular node :

to delete a particular node you need from

Syntax:

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

Detach Delete node ,

Create a graph database for student sources :

Create (n: student {sid: "VTU 27422", sname: "Vinoth",
dept name: "CSE"})

output:

Added, label, Created, node, set 3 properties,

Completed after 232 ms

Create (n: student {sid: "VTU 14502", sname: "Vijay",
dept name: "CSE"})

output: Added, label, Created, node, set 3 properties

Completed after 12 ms

Create (n: dept {dept name: "CSE", dept id: "dau",

Output:

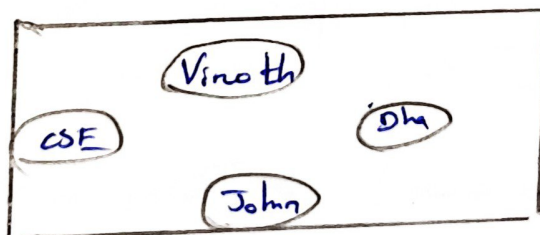
Added, label, created, node, set 2 properties.

Completed after 72 ms

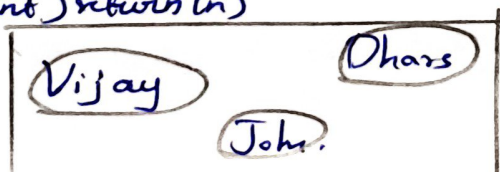
Selected all the nodes in your database using

Match (n) and return (n)

output:



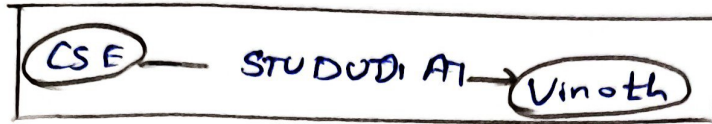
Match (n: student) returns (n)



2) Create relationship between Student and CSE

Match (s: student), (d: dept) where s.sname = 'Vijay'
AND deptname = 'CSE' Create (s). [st: is TU of NTAL] →
return s.d.

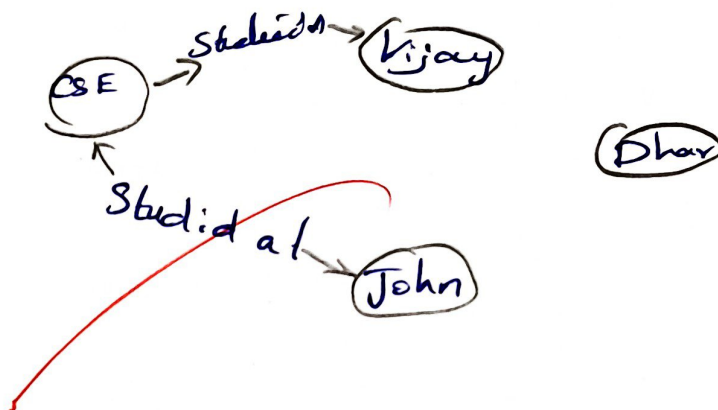
output:



Create (s). [st: studied At] → (d))
return d

output: .

Match (n) return n



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EX NO.	11
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	14/07/20

Result:

Thus the implementation in (RUD operations)

in Graph DB was successfully executed.