

Task: 11
Date: 14/10/25

CRUD Operation In Graph DataBase

Aim:

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

Create node with properties:

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

Syntax:

~~create (nodeLabel) 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 (node1) - [RelationshipType] -> (node2)~~

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

Syntax:

Create

MATCH (a: Label of node1), b: Label of node2)

both here a.name & "name of model" AND b.name " name of node".

$(CREATE (a)-[:relation n] \rightarrow (b))$

Return a, b

* Deleting a particular node :

to delete a particular node you need to

Syntax:

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

Detach Delete node,

Create a graph database for Student sources:

Create (n:student {sid: "VTU 27422", sname: "Vijay",
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

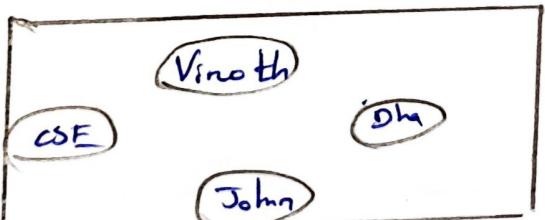
Create (n:dept {dept name: "CSE"; dept id: "dau"})

Output:

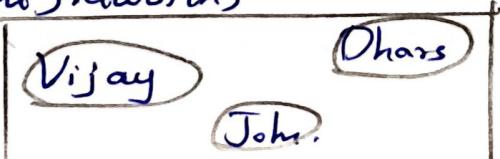
Added, label, created, node, set 2 properties.
Completed after 72 ms

~~Selected all the nodes in your database using
Match (n) and return (n)~~

Output:



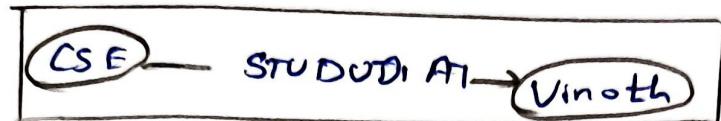
~~Match (n:student) returns (n)~~



a) Create relationship between Student and OS

Match (s: student), (d: dept) where s.sname = 'Vijay'
AND dept.name = 'CSE' "Create (s) -> [st : is TU OF NATL] >
return s.d.

Output:

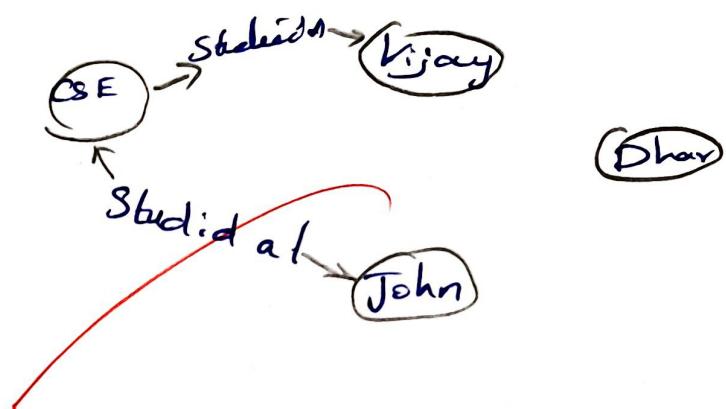


Create(s) -> [st : studied at] > (d))

return d

Output: .

Match(m) 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
GN WITH DATE	20/07/2023

Result:

✓ Thus the implementation of CRUD operations

in Graph DB was successfully executed.