TASK NO-11 CRUD OPERATIONS in Graph Dt:- 14/10/25 Database

Am: To perform CRUD operations like creating, inserting, querying, finding, deleting operations on graph spaces.

create Node with Properties

properties are the key-value pairs using which a node
stored data. You can coeste a node with properties using the CREATE.

clause. You need to specify these properties Seperated by common within the flower braces {}.

Syntax:CREATE (node: label { key 1: value, key 2: value, - ... })

Returning the create Mode

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

MATCH (n) RETURN n

Creating Relationships.

we can create a Relationship using the CREATE clave we will specify the relationship within the equare braces "[]" depending on the direction of the relationship it is placed between hypen — " and acrow" —).

CREATE (node 1) - [; Relationship Type] -> (node 2)

Creating Relationship Between the existing nodes

You can also create a relationship between the existing nodes using the MATCH clause

Syntax:

MATCH (a: Label of Nodel), (b: Lade of Node2)

WHERE a. name = " name of node2" AND

b'name = "name of node2"

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

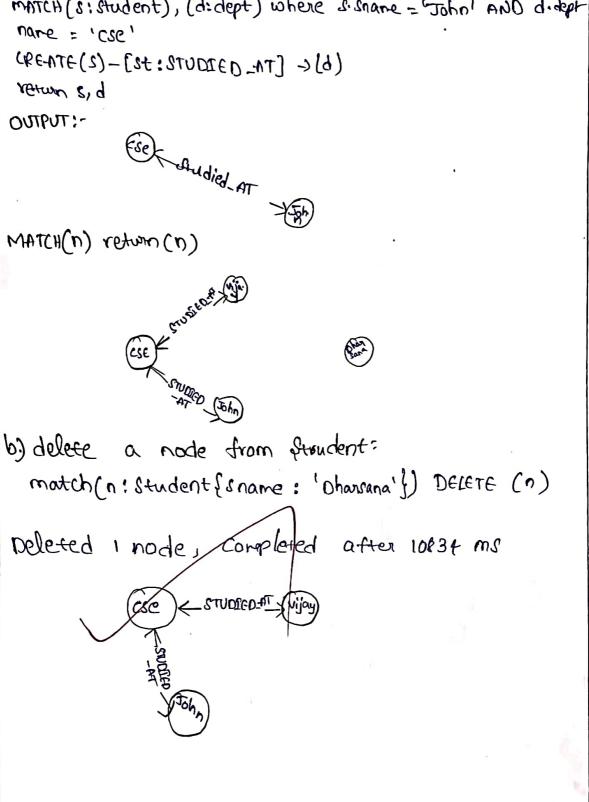
RETURN A. h)

De lete a positicular mode, you need to specify the details of the node in the place of "n" in the above query eyestaxs.

MATCH (node: label { properties. . . 3)

DETACH DELETE Made

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Create a graph debatase for student course registration,
       student and dept node and insert values of properties
 Create (n: student { sid: "VTUIT-500", sname: "John", dept name: "CSE"]
ordput :
 -noded , label, created , node, set & properties,
 completed after 232 ms.
 Create (n: Student & sid: "VIVI4501", smame: "Dharsana", deptrares
  س دوده لا)
 Output !
 -Added I label, created I node, set 3 properties completed atta
   16 ms.
create (w: student / sid: "11 11450)", Iname: "lijay", deptrare:
 n ( SEn 3)
 Outputs.
 added 1 label, created 1 node, set 3 properties, completed
   12 m8
 create (n: dept {deptname: 'csc", deptrd; "dool"})
-ndded 1 label, created 1 node, set 2 properties, comp
-leted after 72 ms.
select all the nodes in your database using match
                  conmand.
a watch(U) regimen(U)
 Output 1.
                      vijay,
               (cse)
                                 (Dhowsang
                      (John)
 * match (n: Student) return (n)
output 1-
                           pharsara
              vijay
                     John
              Relationship between Student and ase
a) Create
MATCH (s: student), (d: dept) WHERE S. Sname = vijay
AND dideptrare = 'cse',
CREATE(S) - [St: STUPDED -AT] ->(d)
deturn s, d.
                   output:
                          CE STUDIER OF STORY
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| SULT AND ANALYSIS (3) | 5 |
| · • 1 40CE (3) | 4 |
| 1 (1) (4) | |
| | 14 |
| 41724 11414 | A |
| ertre mare | - B |

Result: Thus the implementation of CRUD operations creating, insenting, tinding and demoving Operations using graph DR & successfully

exected.