CURD OPERATIONS IN BARAPH PATABASE.

Aim? To penform CRUP operations like Creating, inscring querying finding, deleting operations on groph spaces.

* create node with properties

Algorithmy properties are the key-value Pairs Wing 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 within, the flower Braces & 2".

syntax! following is the syntax to create a hode with proper

-ties CREATE (node: lable | Exel!: value / Key 2: value - -- }}

* Returning the created Node;

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

MATCH (n) RETURN n.

* creating relationships.

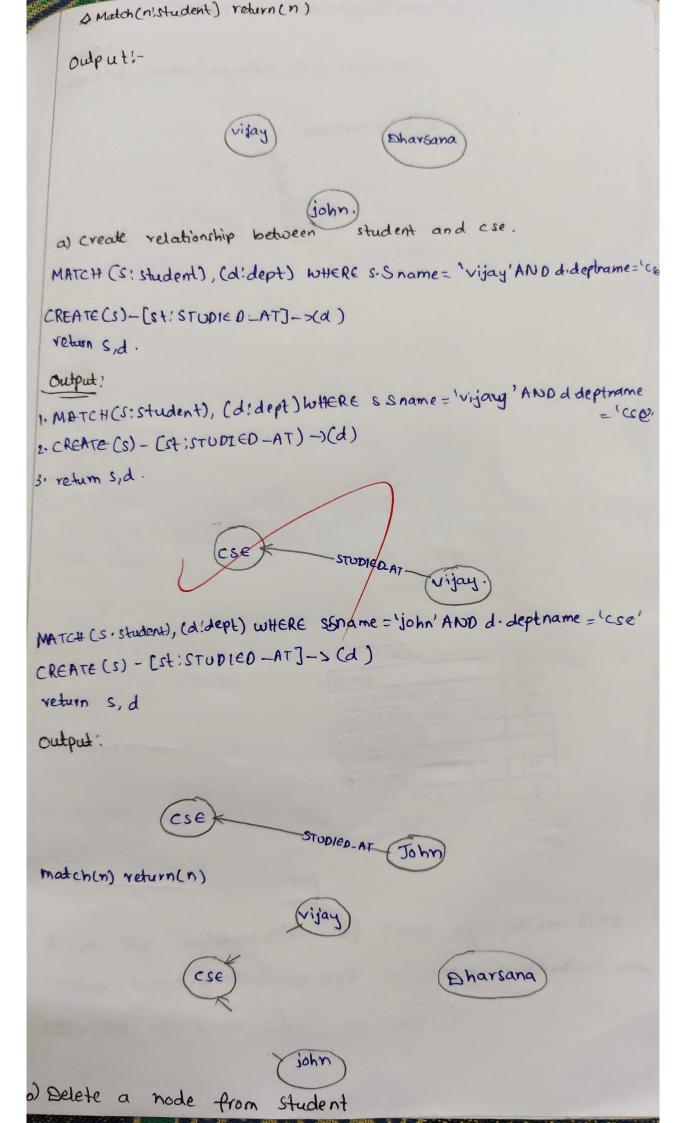
we can veri create a relationship using the CREATE clause we will specify relationship within the square braces " ()"depend ting on the direction of the Melationship it is placed between hypenen" - "and arrow" or as shown in the following syntax.

Syntax;

following in the syntax to create a relationship using the CREATE clauses

CREATE (node 1) - (Relationship type) - (nod 2) -A creating a Relationship between the Existing Nodes. You can also create a relationship between the existing nodes using the MATCH clause.

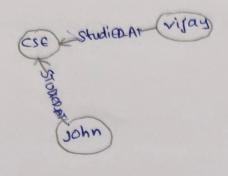
```
syntax!
following is the syntax to create a relationship between the existing
notes using the MATCH ctause.
     MATCH (a labe of Node 1), (b: Laber prode 2)
     WHERE (node: label {proporties - .... 4)
     BETACH EXLETE node.
create a graph database for student course registration, create student
and depe node and insent values of properties.
create (n' student & sid; "VTU14500",
 s name: " john",
  deptname: "CSE" }
 output!
 Added I label, created 1 node, set 3 properties, completed after 232ms.
create (n: Student esid! "VTO 14501",
 sname " Bharsana".
 defranci "EEE " 3)
 output 1
 Added 1 label, created 1 Node, set 3 properties, completed after 15ms.
 create ( w: student { sid : "VTO 14502",
 Sname:" Vijay",
 department "cse"
 4)
 output!
  Added I label, created I node, sets proporties, completed after 12 m.
 create (nidept (deptname! "CSE", deptid!"doo!"3)
  Output?
  Added 1 label, created 1 node, set 2 proporties, completed after
  72 ms..
  delect all the
                    nodes in your database wing match command
   Omaton (n) return(n)
    output; matchen) return(n)
                                           Bharsana
              CSe
                             John
```



match (n' Student & s name: 'Bharasana' }) Delete(n).

output:

Beleted I mode, completed often 10034 ms



| VEL TEUM | |
|-------------------------|---------|
| | 1 |
| PERFORMANCE (5) | 57 |
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| VIVA VOCE (5) | |
| RECORD (5) | 14 |
| 3.61 W.T. 50.4 | |
| | 18. |
| | 15/0 |

Result! The implementation of CRUP operations like creating, inserting finding and removing operations using Graphobs is successfully executed.