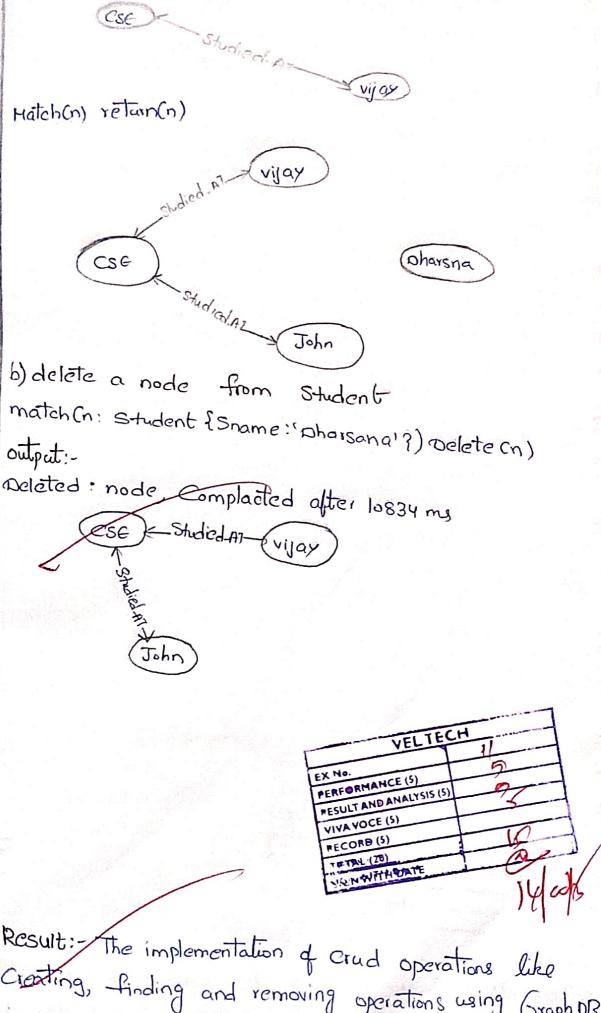
Task NO:-11 CRUD operations in Graph databases Date: - 14/10/25 Aim: To per-form CRUD operations like creating inserting quering, finding, deleting operations on graph spaces. Create node with properties: Properties are the key-value pairs using which a node Stares data you can create node with properties using the create clause. You need to Specify these Properties seperated by Commas within the flower brace & ? Syntax following is the syntax to create a node with properties CReate (node: laber { key 1: 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 Relation ships: we can create a relationship using the create Clause we will specify the relationship within the Squarebraces "[]" depending on the direction ort the relationship it is placed between hypen"-" and Create (node 1) - [: Relationship Type] -> (node 2) creating a Relationship between the existing nodes you can also creates a relationship between the existing nodes using the match clause.

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Syntax:-
 ratch (a: label of wode 1), (b: labe_of node 2)
 where a name = " name of nodel" AND b. name = name of
 node 2"
Create (a) - [: relation] -> (b)
 Rétain a, b
 Delete a particular node
To delete a particular node you need to specify the
details of the node in the place of "n" in the above query
Syntax:-
 Match (node: label { properties _ - - ?)
 DETach relête node
Create a graph database for student course registration,
Credit Student and dept node and insert values of properties
Create(n: Student {Std: a VTO 14500", S. name: "John",
                deptrame : "CSE"?
output:
Added I label, Created I node, Set 8 properties, complèted
Create (n: Student. [Std: a VTU 14501", Sname: " Dharson"
 dept name: (Ecc?)
output:
Added 1 label, created 1 node, set 3 propertie, completed
Oreate (w: Student { sid: "VTO 14502", Sname: "Vijay",
deptname: " (se" ?)
output:
Added I label, created I node, set 3 properties,
Completed 12 ms
Create (n: dept { deptname : ESE", deptid > doo! ?)
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octput Added I label, created I node, set 2 properties, Completed after 72 ms select all the nodes in your database using match Comman d * match(n) return(n) output :-Vijay (CS E) Dhar John + metch (n: Student) return (n) output:-Vijay (Dharsang John a) create relationship between student and cse Match (s: Student), (d:dept) where S. Sname=(vijay' AND d.deptrame = (cse) Create(s)-[st; Studied-A7]->(d) return s, d output CSEX Stedied-A7 Vijay Match (sistudent) (didept) where & s. Sname = (John) And dideptrame = (se' create (s) - [st: STuDied -AT] -> (d) return s,d



Result: - The implementation of crud operations like Creating, finding and removing operations using Graph DB is Successfully executed.