Task No: 11 CRUD Operations in Graph Data base Dt: 14 101 25

Aim: To perform CRUD operations like Geating, inserting, quelying, finding , deleting opelations on grouph spaces.

create Mode with proporties:

Properties agethe key value pairs using which a node stones data You can create a node with properties using the CREATE clouse. You need to specify these Properties seperated by commas within the Shower praces {}.

CREATE (mode: label & key): While, key 2: Value, --- 3)

Returning the create Node

To verify the creation of the node, type and energite the following query in the dollar prompt. MATCH (N) RETURN A

Creating Relationships

we can create a relationship using the create clouse are will Specify the relationship within the Square braces "[] depending on the direction of the relation ship it is placed between hypen " - " and arrow" -? ".

CREATE (node 1) - [: Relation Ship Type] -> (node 2)

creating Relationship between the existing nodes

You can also create a relationship blw the existing nodes using the MATCH doube.

Syntau:

MATCH (a: label of Node 1), (b: label of Node 2)

WHERE a name = "name of node I "AND b norme = "name of node 2" CREATE (Relation] -> (b)

RETURN aib:

Delete a Dosticular Node

To delete a Particular Mode, you need to specify the detail of the node in the place of in " in the above quely. Syntax:

MATCH (node: label & Propaties: .. . 3) DETACH DELETE Mode

Create a graph database for student course registration, create Student and dept node and insert values of two perties.

Create (n: Student & sid: "DTU 1500", Sname: "John", depthame: "csi

Added , label , created, node, set 3 properties,

Completed after 232 ms

Create (n: Student & Sid: "VTU14501", Sname: "Dharbana", dept nam

Output:

Added I label (Created, node, set 3 properties completed after 16ms

Create Cw: Student Esid: "VIU lusoz", Sname: "Vijay", dept nam

"CSE" &)

Output:

Added 1 label, executed mode, set 3 properties completed after

Create (n: dept Sdept name: "csc", deptid; "dool" })

Output

Added 1 label, created 1 node, set 2 properties, completed after 72 ms.

Select all the nodes in your database using match Command match (n) Yeturn (n)

Output

(Vijay)

Dhasana

Vijay)

Dhasana

John

John

a) create Relationship between student and CSE MATCH (S! student); (d ! dept) WHERE S. sname = "Vijoy" AND didept hame = 'CSE", CREATE (S) - [St: STUDIED - AT] -> (d) return sid output : Shudied Al Vijon MATCH (s; student), (d) dept) where s. sname = 'John' AND d. dept name = 'CSE" CREATE (S) - [St: STUDIED - AT] > (d) return sid Output: CSE)

Skyledak John Match (h) return(n) CSE Bharsana St. Staldled ax John b) delete a node from student: match (n: student & sname: 'Dhassana' & DELETE (h) Deleted, node, completed after 10834 ms CSE studled-At - (Vilay)

John

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Result:
Thus the implementation of CRUD operations like
Creating, inserting, finding and removing operations using
Graph DB is successfully executed.