Task 9:- CRUD operations in graph Database.

Aim:- To perform CRUD like creating, insertion, querying, finding, deleting operations on graph spaces.

The steps to get with Neo 4j's Aura graph database:-

Step 1:- copy and paste the following link into your web browser.

https://neo4j.com/cloud/platform/aura-graph-database/?ref=get-started-drop-down.

Step 2:- click on "Start Free".

Step 3:- choose the option to continue with google.

Step 4:- Click the "Open" button.

Step 5:- After clicking "Open", a text file will be automatically downloaded. This file contains your user Id and Password details

Step 6:- Close the get started with Neo 4j with beginner guides if its Open.

Step 7:- youre now ready to begin practing with graph Database.

Create node with properties:-

properties key-value pair using which a node stores data, we can create a node with properties using CREATE clause and specify these properties separated by commas within flower braces.

Syntax:-

CREATE (node: label {key1: value, key2: value --})

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

Syntax:- MATCH (n) RETURN n.

Creating Relationships:-

To create a relationship using CREATE clause and specify relationship within the square braces "[ ]" depending on direction of relationship it is placed b/w hyphen "-" arrow "->".

Syntax: CREATE (node1)-[Relationship Type]->(node2).

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Syntax:-

MATCH (a: label of Node1), (b: label of node 2).

CREATE (a)-[:Relation]->(b) RETURN a,b.

Create a graph database for student course registration, create student and dept node and short values of properties

Create a cricket board Node:

create (cb: cricket Board {Board ID: "B1006", Name: "chennai Cricket Board";

Address: "chennai"; Pho: 9887766499} return a cb

Create Team Nodes:

create (t1: Team {team ID: "CCK05", Name: Raj: ADS Express: Coach (G. Ram); captain: SAMARTH kumar}) return t1

Create (t2: Team {team ID: "CCB02", Board: B1001, Name: Aug Exp: Coach: T. KARTHIK: captain: Y JOHN}) return t2.

Create player nodes:

Create (P1: Player {playerID: '1' TeamID: 'CCB01', name: 'Raj', Age: 23, Date of Birth: 24-Jan-1998, playing role: 'Batsman', email: raj@gmail.com}), return P1

Create (P2: Player {playerID: '33' TeamID: 'CCB01', name: 'Anand', Age: 25 Date of Birth: 08-Jan-1999, Playing Style: Batsman, email: bolaj@gmail.com}), return P2

Creating Relationship among Cricketboard and Team:

match (cb: cricket board {BoardID: 'B1001'}), (t1: team {TeamID: 'CCB01'})

Create (cb) - [:has] -> (t1) return cb, t1

match (cb: cricket board {BoardID: 'B1001'}), (t2: team {TeamID: 'CCB02'})

Create (cb) - [:has] -> (t2) return cb, t2

match (cb: cricket board {BoardID: 'B1001'}), (t2: team {TeamID: 'CCB01'})

Create (cb) - [:has] -> (t2) return cb, t2

Creating relationship among players and team

match (P1: player {playerID: '1'}) (t1: team {teamID: 'CCB01'})

Create (P2) [:Player] -> (t1) return P1, t1, r2

match (P2: player {playerID: '33'}), (t1: team {teamID: 'CCB01'}) Create (P2) [:PLAYED_FOR] -> (t1) return P2, t1, r

EX NO.	9
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	

Result:-

Thus, the CRUD operation Creating inserting querying finding, deleting operation on graph space execulation successfully.