Neo4j Lab Queries Week2

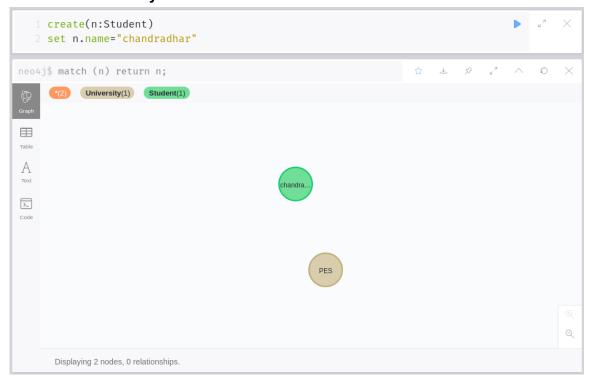
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Week2: Graph Based DBMS

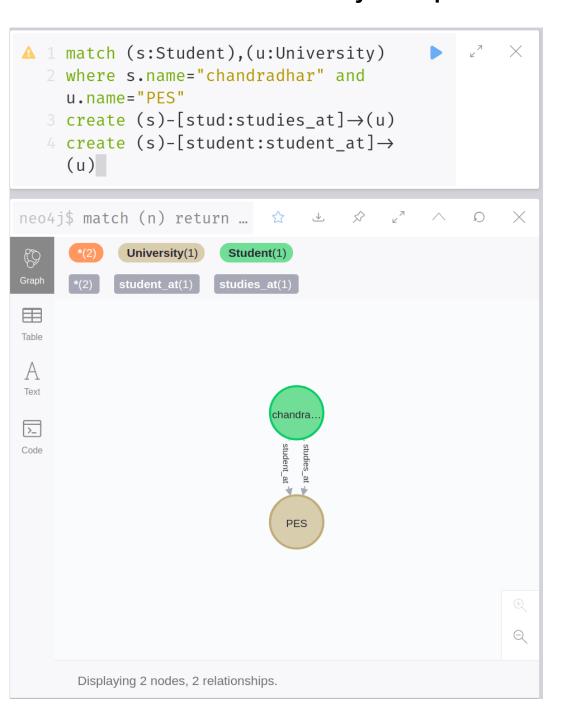
Create Node with single label University and value name as PES



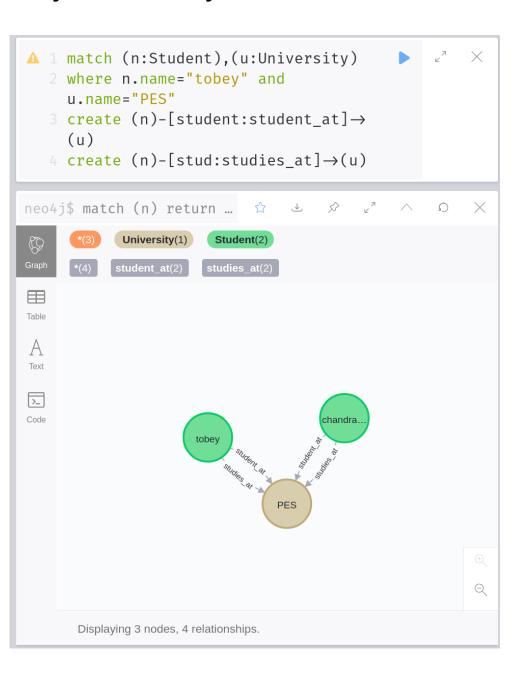
Use set to set the key value called name with value chandradhar for a node



Creating relations called studied_at and student_at between Student node chandradhar and University node pes university



Create relation student_at and studies_at between Student node with value tobey and University node PES



Create a student not studying in PES University but has a best_friend relationship between tobey and chandradhar

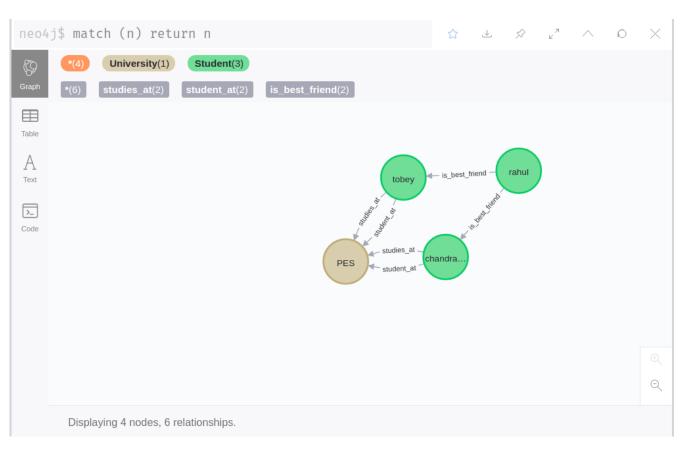
//create a Student not studying in pes but best_friend of tobey and chandradhar create (n:Student{name:"rahul"})

//create relationships

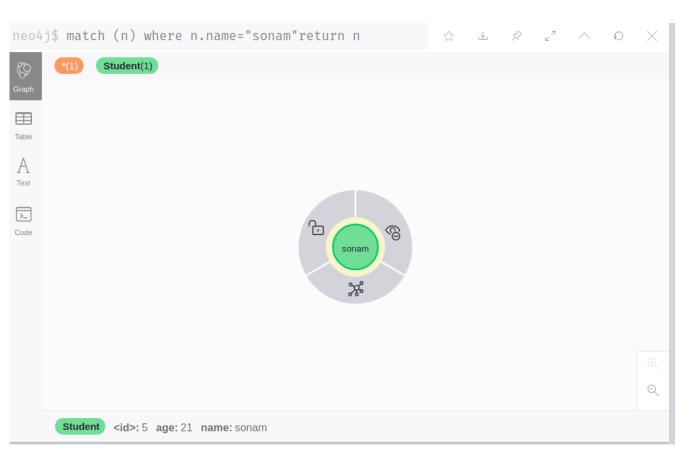
match (n:Student{name:"rahul"}),(p:Student{name:"tobey"})

create (n)-[bst:is_best_friend]->(p)

match (n:Student{name:"rahul"}),(p:Student{name:"chandradhar"})
create (n)-[bst:is_best_friend]->(p)



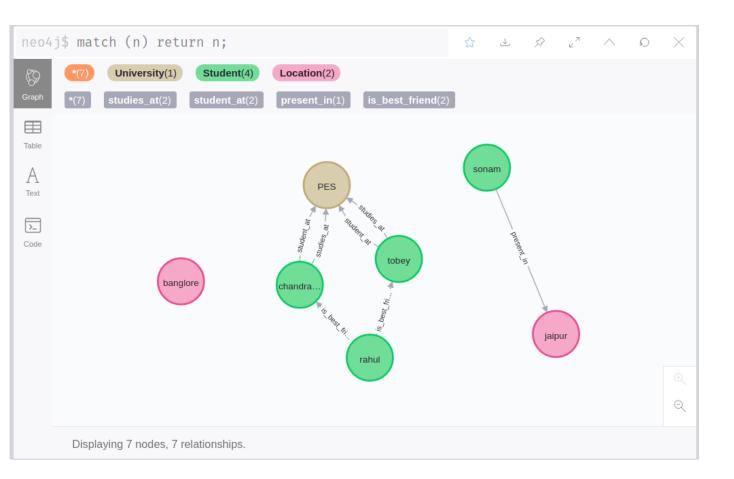
Create a node with label Student but with two key value pairs ie name=Sonum and age=21 create (n:Student{name:"sonam",age:21})



Create a node of label Location with value name called bangalore, another node of label location with name key having Jaipur as value.

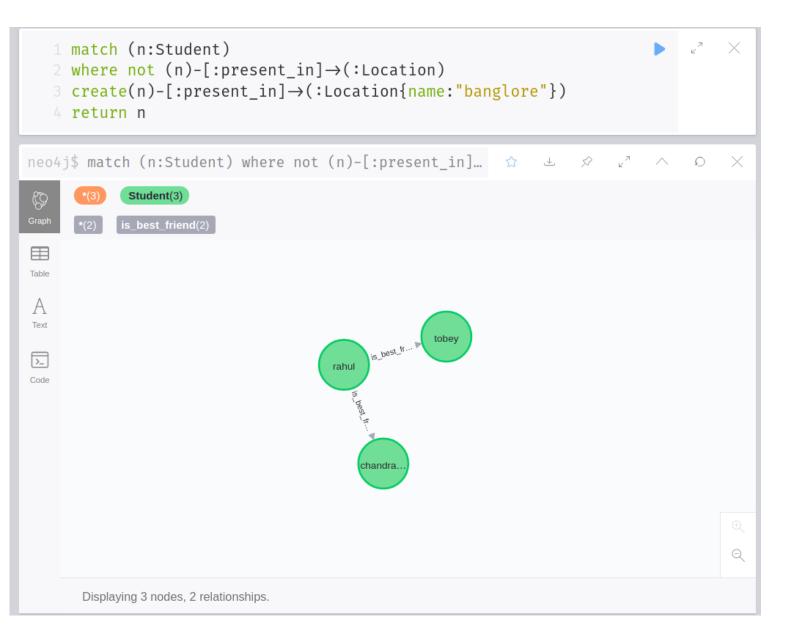
create (I:Location{name:"banglore"})
create (I1:Location{name:"jaipur"})

match (n:Student{name:"sonam"}),(I:Location{name:"jaipur"})
create (n)-[lives:present_in]->(I)



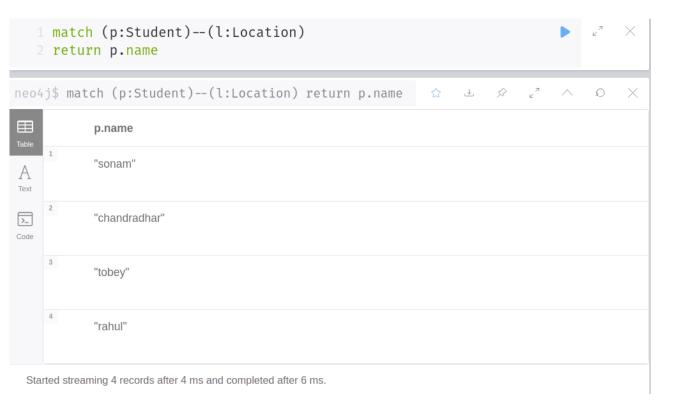
Match all students without a relation present_in with the node location and set the present_in relation of those nodes with the location with name bangalore

match (n:Student)
where not (n)-[:present_in]->(:Location)
create(n)-[:present_in]->(:Location{name:"banglore"})
return n



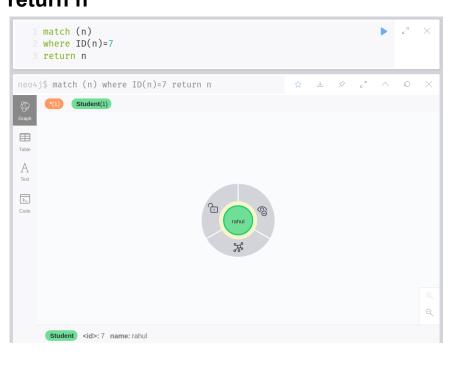
Retrieve the related nodes using "--"

match (p:Student)--(I:Location) return p.name



Retrieve nodes based on the ID

match (n) where ID(n)=7 return n



Create node with multiple labels:

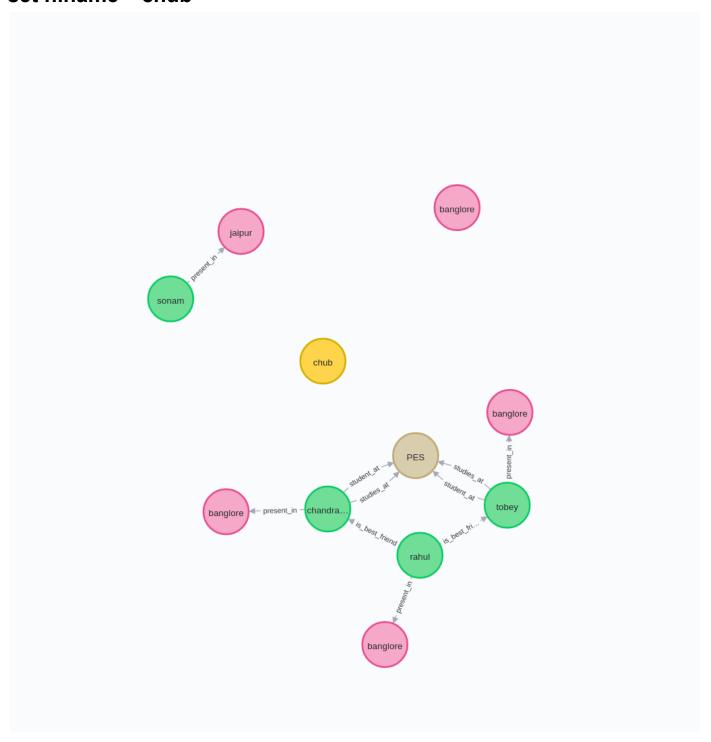
Here we create node with label Animal and Mammal snd give it a key called name with value chub and type as Dog.

This node would be a pet owned by Sonam

create (n:Animal:Mammal)

set n.species="Dog"

set n.name="chub"



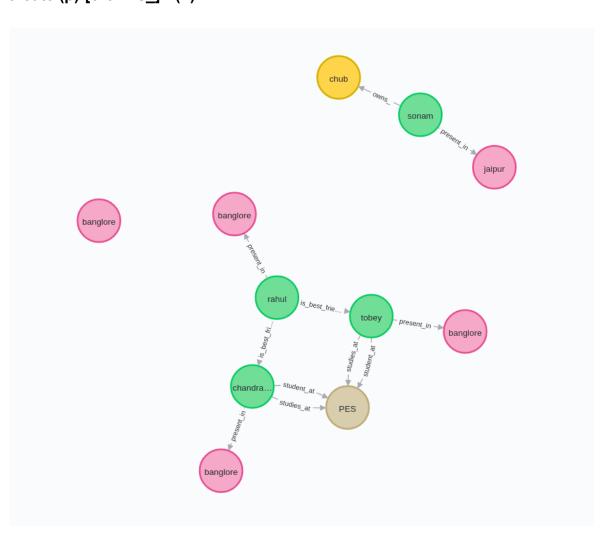
Create relationship between Sonam node and chub Anmal node where sonam owns the pet called cub:

match (n:Animal{name:"chub"})

match (p:Student)

where p.name="sonam"

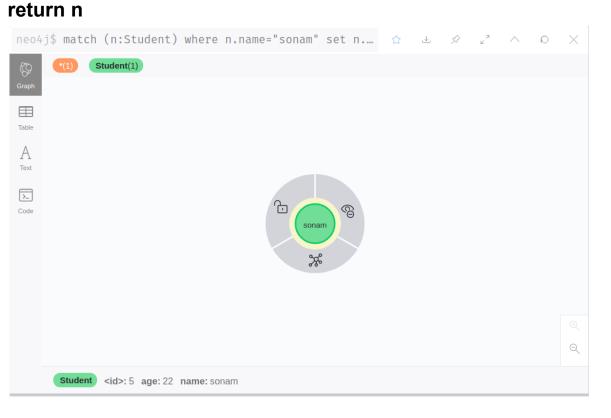
create (p)-[o:owns_]->(n)



Use the set command to update a value of a key:

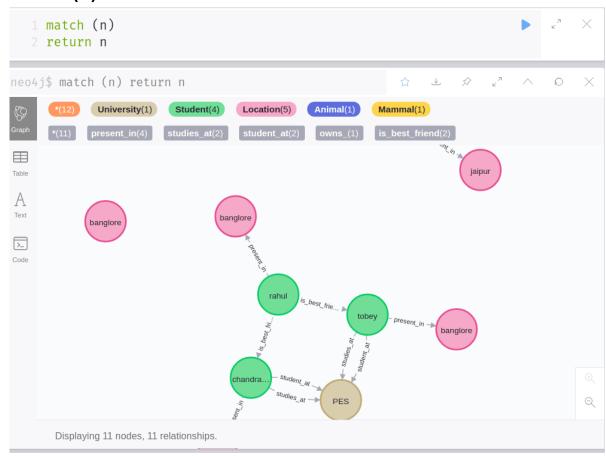
Here we update sonam node's age key after her birthday

match (n:Student)
where n.name="sonam"
set n.age=22



Display the Entire graph:

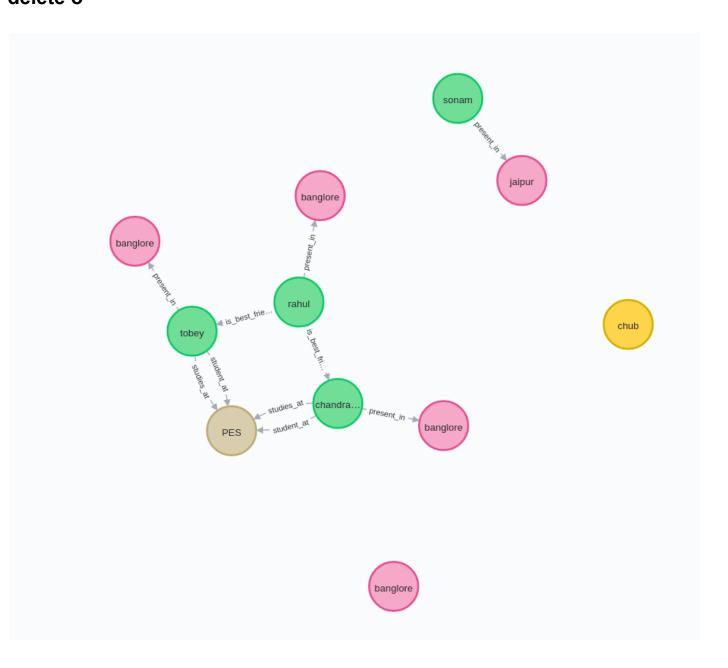
match (n) return n



Delete Specific node:

Lets say that dog died due to an accident :(, then we need to delete the relationship between dog node and sonam node first:

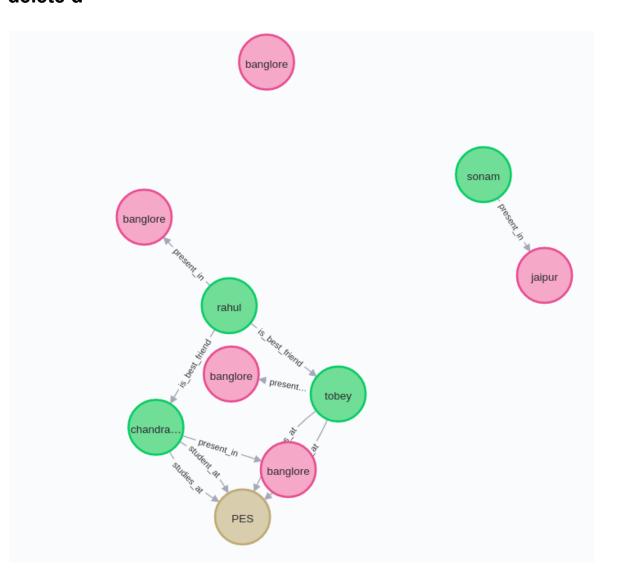
match
(p:Student{name:"sonam"})-[o:owns_]->(a:Animal{species:"Dog",name:"chub"})
delete o



Delete A specific Node:

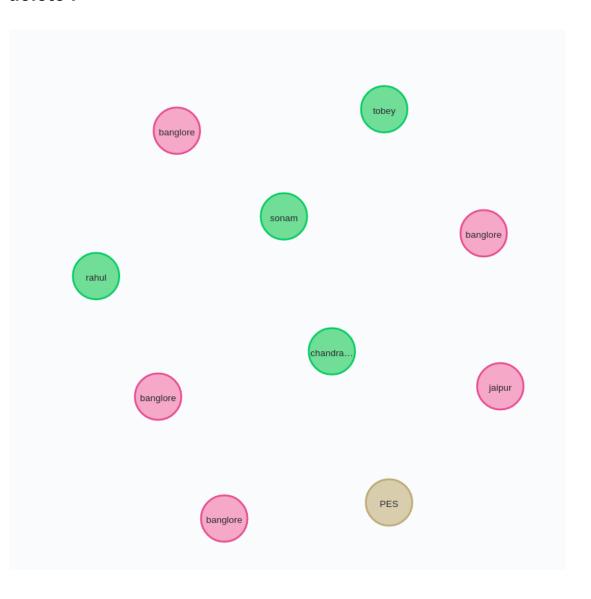
Next after detaching all relationships,we need to delete the node Dog itself:

match (d:Animal)
where d.species="Dog" and d.name="chub"
delete d



Deleting all the relationships between all the nodes:

match ()-[r]->() delete r



Finally, Delete all nodes itself of the graph:

match (n) delete n

