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Class: SYMCA - C NoSQL Batch 1

Neo4j Assignment 2

Q.2

Hotel Managment System

####Node Types:

Admin - properties { username: "", email , contact , DOB }

Visitors - properties { text: "" }

Employees - properties { tag: "" }

####Relationship Types:

create three differnt entity where ,

all nodes haev table no , date of visit and food items.

every node have unique name , id and contact details.

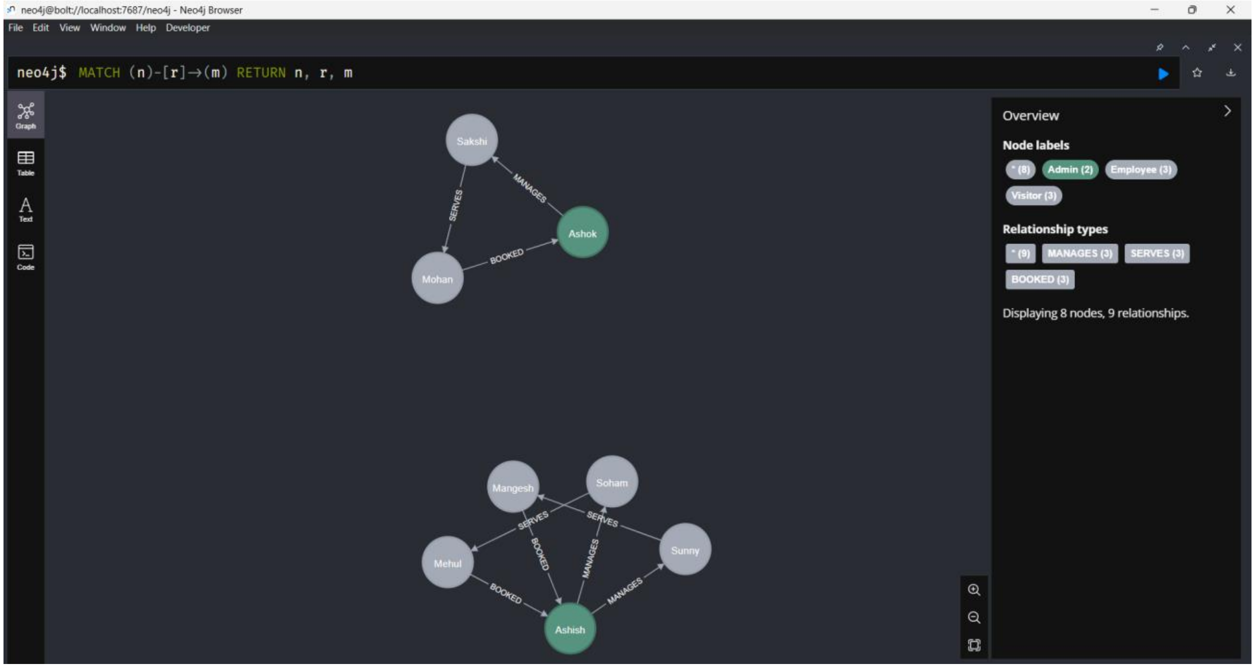
create a relations between all nodes and complete the graph dig for Hotel Managment System.

Query:

```
// Creating Admin Nodes

CREATE (admin:Admin {name: 'Ashish', area: 'Central', date_of_joining: '2020-01-15'})

CREATE (admin2:Admin {name: 'Ashok', area: 'East', date_of_joining: '2019-03-20'})


// Creating Employee Nodes

CREATE (emp1:Employee {name: 'Sunny', area: 'Kitchen', date_of_joining: '2018-07-10', role: 'Chef'})
CREATE (emp2:Employee {name: 'Soham', area: 'Housekeeping', date_of_joining: '2017-11-23', role: 'Cleaner'})
CREATE (emp3:Employee {name: 'Sakshi', area: 'Serving', date_of_joining: '2021-05-18', role: 'Waiter'})

// Creating Visitor Nodes
CREATE (visitor1:Visitor {name: 'Mangesh', area: 'Downtown', date_of_visit: '2024-09-29', table_number: 12})
CREATE (visitor2:Visitor {name: 'Mohan', area: 'Suburban', date_of_visit: '2024-09-30', table_number: 8})
CREATE (visitor3:Visitor {name: 'Mehul', area: 'Uptown', date_of_visit: '2024-10-01', table_number: 5})

// Creating Relationships
// Admin Manages Employees
CREATE (admin)-[:MANAGES]->(emp1)
CREATE (admin)-[:MANAGES]->(emp2)
CREATE (admin2)-[:MANAGES]->(emp3)

// Employees Serve Visitors
CREATE (emp1)-[:SERVES]->(visitor1)
CREATE (emp3)-[:SERVES]->(visitor2)
CREATE (emp2)-[:SERVES]->(visitor3)

// Visitors Book Hotel Services Managed by Admin
CREATE (visitor1)-[:BOOKED]->(admin)
CREATE (visitor2)-[:BOOKED]->(admin2)
CREATE (visitor3)-[:BOOKED]->(admin)
```

MATCH (n)-[r]->(m) RETURN n, r, m

<u>Graph:</u>



```
neo4j$ MATCH (n)-[r]→(m) RETURN n, r, m
```

Displaying 8 nodes, 9 relationships.