

17/10/25

TASK - 11

CRUD operations in graph Database

Aim: To Perform, create, Read, update and Delete operations on a Graph Database for the Hotel management system.

1. create nodes with properties

```
CREATE (h: Hotel { Hotel_ID: "H001", Hotel_Name: "sunrise inn",  
city: "chennai" });
```

```
CREATE (g: Guest { Guest_ID: "G101", Guest_Name: "John", Phone: "9876543210" });
```

```
CREATE (r: Room { Room_No: "101", Room_Type: "Deluxe" });
```

output:

Added 3 nodes successfully with their properties

2. view all nodes

```
MATCH (n) RETURN n;
```

output:

Display all Hotel, Guest and Room nodes

3. Create Relationships

```
MATCH (g: Guest { Guest_Name: "John" }) - (r: Room { Room_No: "101" });
```

```
CREATE (g) -> [BOOKED] -> (r)
```

```
RETURN g, r;
```

```
MATCH (r: Room { Room_No: "101" }), (h: Hotel { Hotel_Name: "sunrise inn" });
```

```
CREATE (r) -> [ASSIGNED TO] -> (h)
```

```
RETURN r, h;
```

output:

Relationships Booked and Assigned To created successfully

John

Sunni
In

Mark

Ben

Math in: Hotel () return ()

John

Mark

Ben

Relationship:

Sunni
In

Hotel

John

Retrive Relationship Data

MATCH (g: Guest), (r: Room) → (h: Hotel) -[: Assigned_To] → (h: Hotel)
 RETURN g.Guest_Name, r.Room_No, h.Hotel_Name;

output:

Displays Guest name, Room number and Hotel name

5. Delete a Node

MATCH (g: Guest {Guest_Name: "Sohn"}) DETACH DELETE;

output:

~~Deleted node and its connected relationships;~~

VEL TECH - CSE	
EX NO.	11
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	-
TOTAL (20)	16
DATE	02

to finish

Result:

Thus, the CRUD operations in graph Database for Hotel Management system created successfully.