

## TASK 11 - CRUD Operations in graph Databases.

**Aim:** - to perform CRUD operations like creating, inserting, querying, finding, deleting operations on graph spaces.

### • Create Node with properties:

- To ~~perform~~ properties are the key-value pairs Using which nodes stores data. You can create a node with properties. using the CREATE clause.

#### Syntax:

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

- to verify the creation of the node, type and execute the following query in the dddos prompt

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

### Creating Relationships:

We can create relationship using the CREATE clause.

Square braces "[ ]" depending on the direction of the relationship it is placed between hyphen "-", and arrow "→" as shown in the following syntax.

#### Syntax:

```
MATCH (a: label of nodes), b: label. or node,  
where 'a. name = "name of nodes. 1 AND 1. name".  
name of node" (CREATE (a) [i Relation] → (b)  
Return a, b
```

\* Deleting a particular node to delete a particular node you declared from

Syntax:

Match (node: label { properties... })

batch Delete node

Create a graph database for Mobile  
phone conversations.

(counter (n: student sid: "29230")

counter (n: mobile {sid: "28478";

name: "realme",

brand: "oppo"}  
)

Output:

added 1 label, created 1 node, set 3 properties,

Completed after 232 ms.

create (n: mobile {realme: "28478", brand name  
:- "oppo".

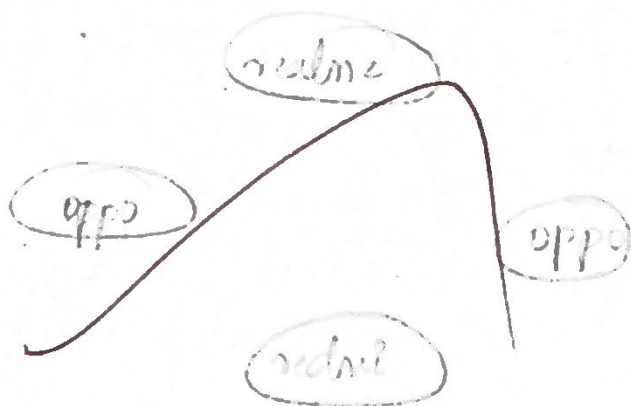
Output:

added label, created 1 node, set 3 properties,

Completed after 16 ms

Create (w: mobile {realme: "28478", })

Output:



watch (n: mobile) return (n)

Vivo

oppo

redmi

a) Create relationship ip between mobile and Brand opp.

watch (sac. mobile) (realme) where n. name = "realme" AND B. Brand name = "oppo"

create (N - [M: mobile - AT] → [d] reused  
m.d.

output:

oppo ————— Mobile - D1 —————> realme

create (N) - [M: mobile = AT] → (d)

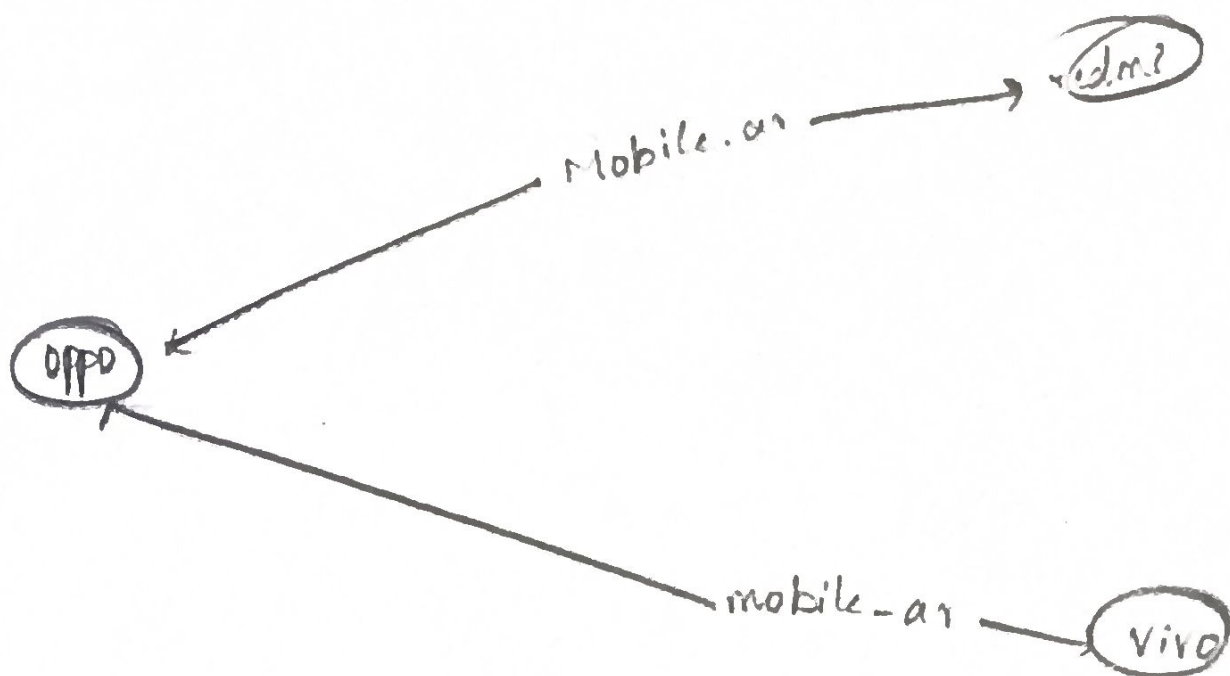
return;

output:

oppo —————> noise



Match (n) return (n).



VEL TECH	
EX No.	
PERFORMANCE (5)	4
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	4
TOTAL (20)	14
SIGN WITH DATE	

15/10

Result: the implementation of CRUD operations like creating, inserting, finding and removing operations using Graph DB is Successfully executed.