

CRUD OPERATION IN GRAPH DATABASES

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

* create Node with properties.

Properties are key-value pairs using which a node store data. You can create a node with properties using the CREATE clause. You need to specify the flower braces {}

Syntax:

CREATE (node_label {key1: value1, key2: value2, ...})

* Returning the created node to verify the creation of the node type and execute the following queries. MATCH (n) RETURN.

* Creating Relationships.

User can create a relationship using the create clause we will specify relationship within square braces []

Syntax:- CREATE (node1) -> (RelationshipType) (node2).

* Creating a Relationship between the nodes you can also create a relationship using the create clause.

Syntax:-

MATCH (a:Label1 of node1), b:
(Label2 of node2) where 'a.name =
'name of node1' AND 'b.name =
name of node2' CREATE (a) ->
(RelationshipType) (b) RETURN a, b.

* Deleting a particular node to delete a particular node you need from

Syntax:-

MATCH (node:Label & properties...)

DELETE node

Create a graph database for mobile
phones. Vertices.

Counte(n": student id : "VFU29230")

Counte(n", mobile id : "phone-id 26478";

name : "realme",

Brand : "oppo" 3

)

output

Added 1 label, created 1 node, set 3 properties,
completed after 232 ms.

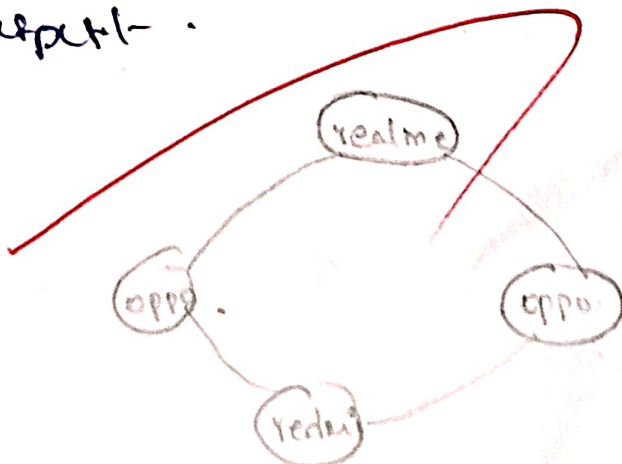
Create (n: mobile & realme: "26478",
brand name :- "oppo")

Output

Added 1 label, created 1 node, set 3
properties, completed after 16 ms

Create (w: mobile {redmi: "VI 24652",
3})

Output -



match (n: mobile) return (n)

(vivo)

(oppo)

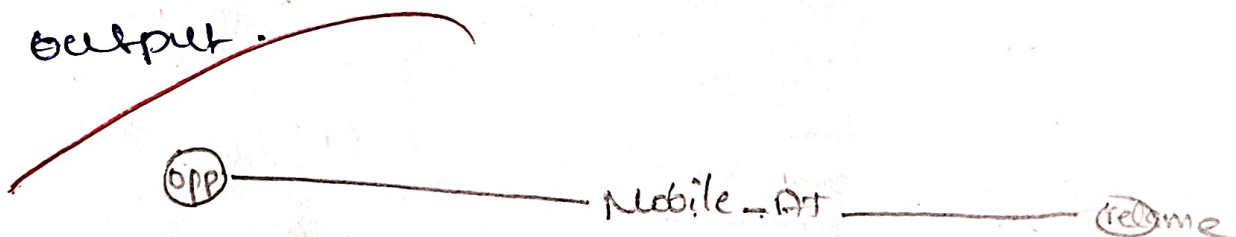
(redmi)

a) Create relationship id between mobile
and Brand opp.

match (n: mobile) (realme, where n.name =
"realme" AND B.Brand name = "oppo")

Create (M) - [M: mobile - AT] -> (d) return
M.d.

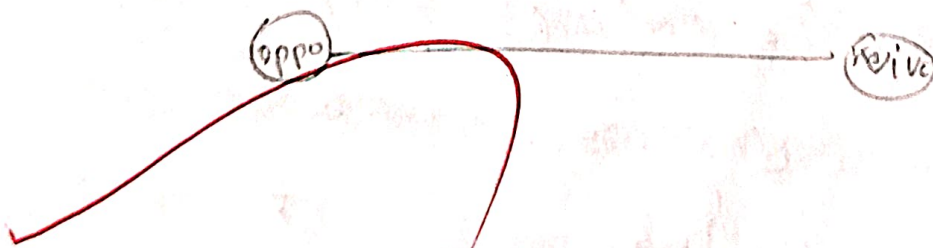
output.



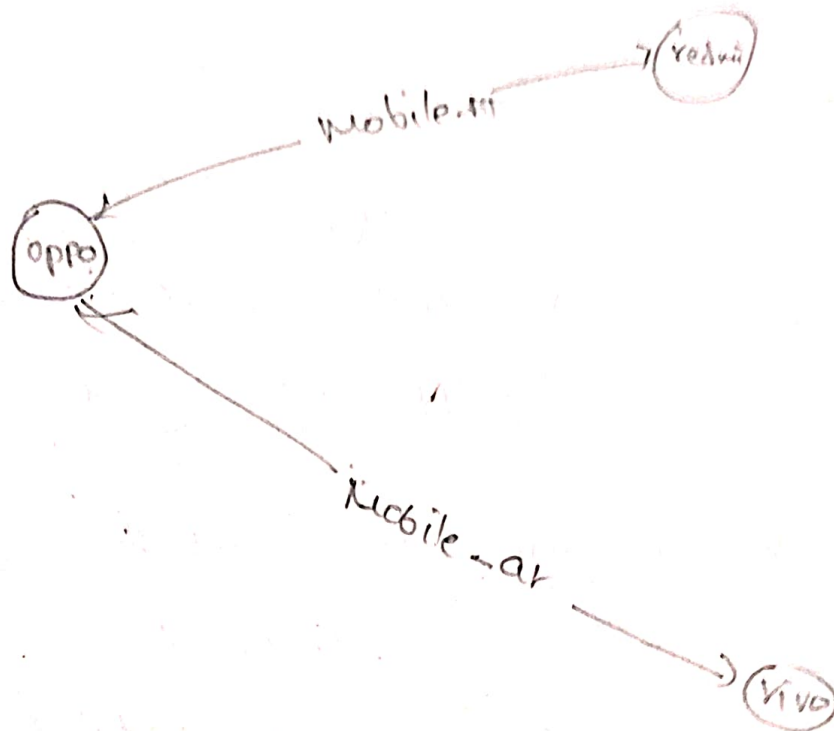
Create (M) - [M: mobile - AT] -> (d)

return;

outp :-



match (n) redken (n)



VEL TECH	
EX NO	11
PERFORMANCE (5)	6
RESULT AND ANALYSIS (5)	✓
VIVA VOCE (5)	✓
RECORD (5)	-
TOTAL (20)	15
SIGN WITH DATE	14/10/16

Result:- The implementation of CRUD operation like creating, inserting, finding and removing operations using Graph DB is successfully executed.