DATE : 13/10/25

TASK : 11 - CRUD operations graph Database

AIM: To perform CRUD operations on a graph database.

CREATE - Nodes & Relationships

```
CREATE (S1 : student {id : 1, name : 'shraran',
                      age : 21})
CREATE (S2 : student {id : 2, name : 'Rahul',
                      age : 23})
CREATE (C1 : Course {id : 101; name : 'computer science'})
CREATE (C2 : course {id : 102, name : 'data structure'})
CREATE (S1) -[: ENROLLED : INJ → (C1)
CREATE (S2) -[: ENROLLED : INJ → (C2);
```

READ - Query data

```
MATCH (S : students) - [ENROLLED - INJ →
                        [C : course]
RETURN S.Name . C. name ;
```

OUTPUT:

shraran → computer Science

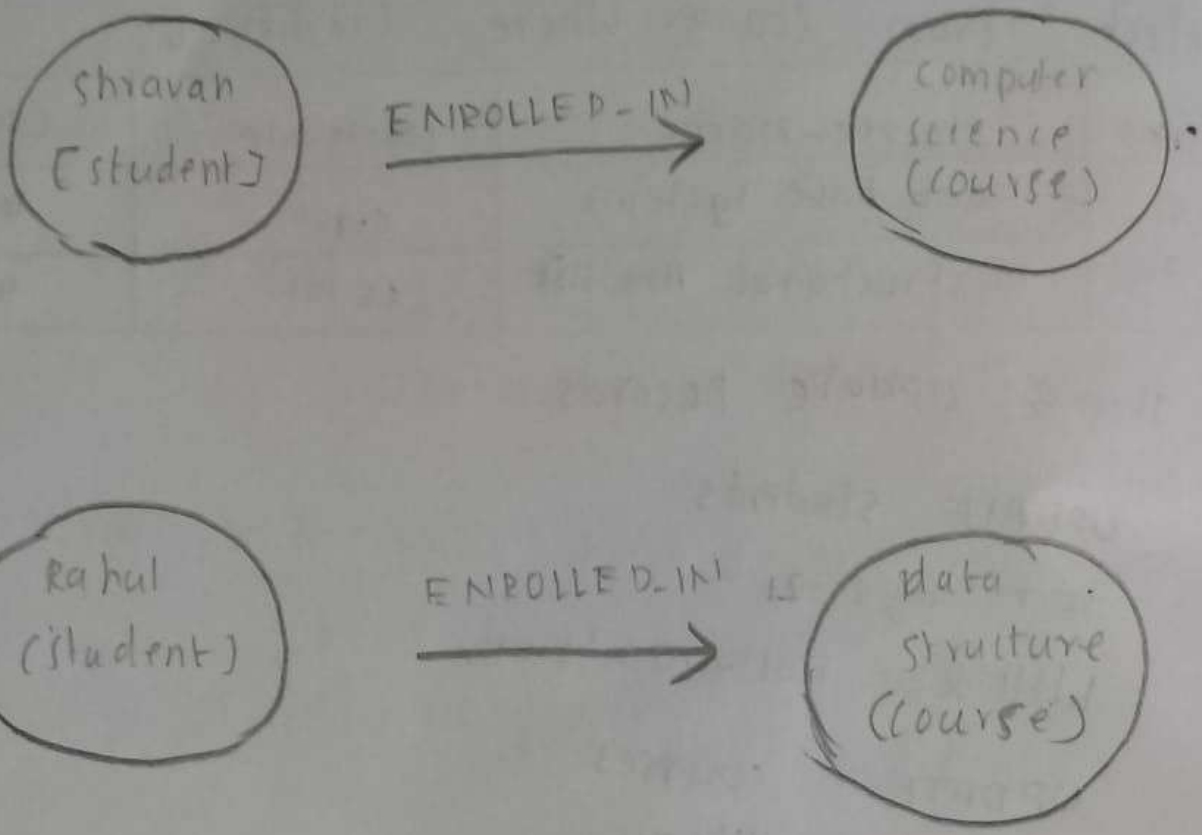
Rahul → Data structure

UPDATE

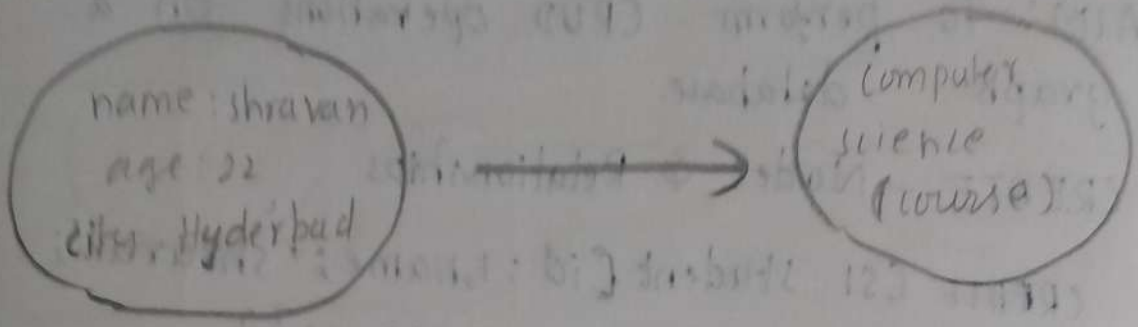
```
MATCH (S : student {name : 'shraran'})
SET . S age = 22, S . City = 'Hyderabad'.
RETURNS ;
```

name : shraran

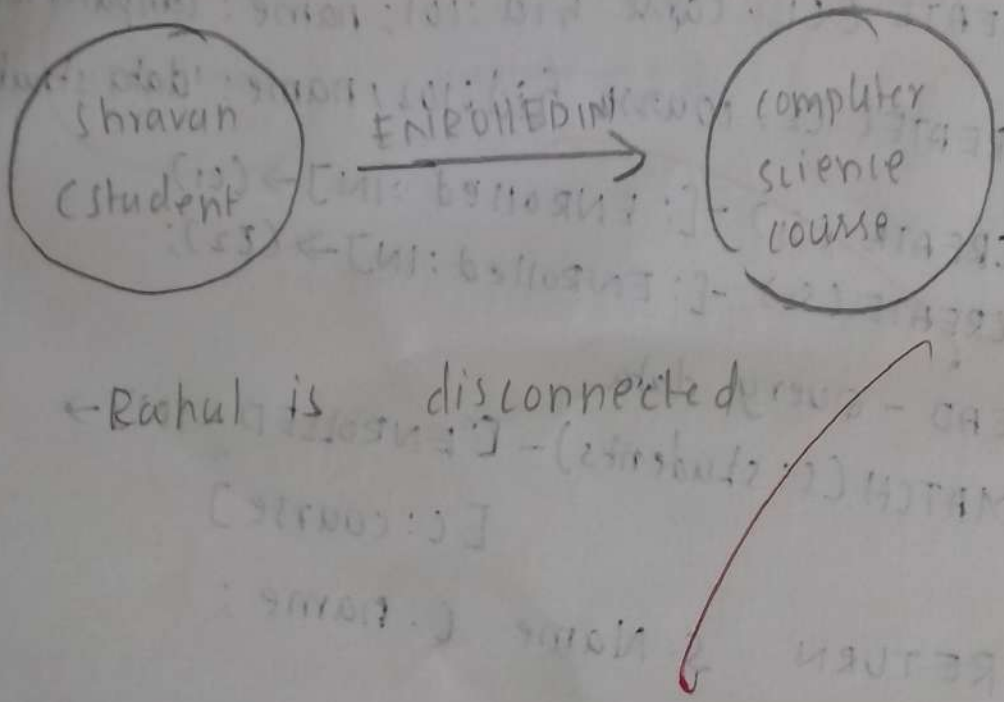
age : 22 → computer Science.


Shravan
[student]
ENROLLED-IN
computer
science
(course)
Rahul
(student)
ENROLLED_IN
Data
structure
(course)

UPDATE



DELETE



← Rahul is disconnected

city : Hyderabad

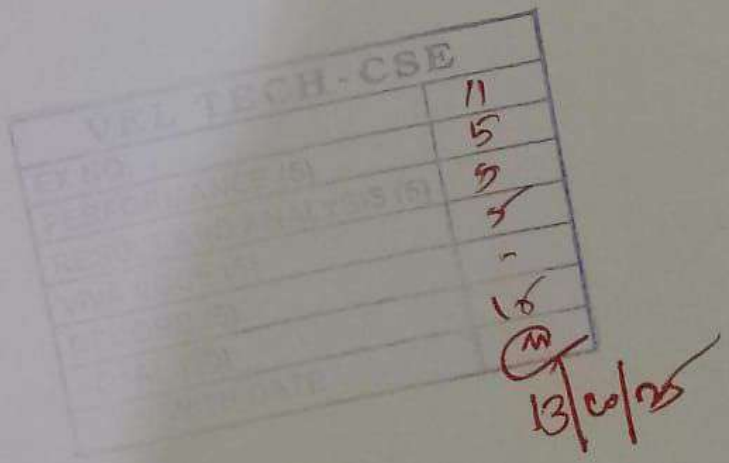
DELETE :

MATCH (s : student {name : 'Rahul'}) →

[r : ENROLLED_IN] → (c : course)

DELETE

shravan - ENROLLED - IN → computer science



Result : Thus the CRUD operations are graph database executed Sucessfully.