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Course: MCS NoSQL (LAB 09)

Neo4J:

Clauses:

With:

```
1 MATCH (n)
2 WITH n
3 ORDER BY n.name DESC
4 LIMIT 10
5 RETURN collect(n.name)
6
```

```
neo4j$ MATCH (n) WITH n ORDER BY n.name DESC LIMIT 10 RETU... \( \triangle \
```

Unwind:

```
1 CREATE
2  (a:player {name: 'Raj', POB: 'India'}),
3  (b:player {name: 'Kumar', POB: 'Canada'}),
4  (c:player {name: 'Hareesma', POB: 'India'}),
5  (d:player {name: 'Rohin', POB: 'South Korea'})
6 WITH [a, b, c, d] AS ps
7 UNWIND ps AS p
8 RETURN DISTINCT p.POB
```

```
neo4j$ CREATE (a:player {name: 'Raj', POB: 'India'}), (b:p...

p.POB

"India"

"India"

"Canada"

"South Korea"
```

Where:

neo4j\$ MATCH (n) WHERE 1970 < n.YOB AND n.YOB ≤ 1985 RETURN n.name



OrderBy:

```
1 MATCH (n:coach)
2 RETURN n.name, n.YOB
3 ORDER BY n.name
4
```

neo4	j\$	MATCH ((n:coach)	RETURN	n.name,	n.YOB	ORDER	ВҮ	n.name
Table	1	n.na	ame						n.YOB
A		"Bot	ham"						1955
∑_ Code	2	"Ric	ky"						1974
	3	"Sad	chin"						1960

Skip:

```
1 MATCH (n:coach)
2 RETURN n.name, n.YOB
3 ORDER BY n.name
4 SKIP 1
5 LIMIT 1
```

```
neo4j$ MATCH (n:coach) RETURN n.name, n.YOB ORDER BY n.nam...

n.YOB

n.YOB

rable

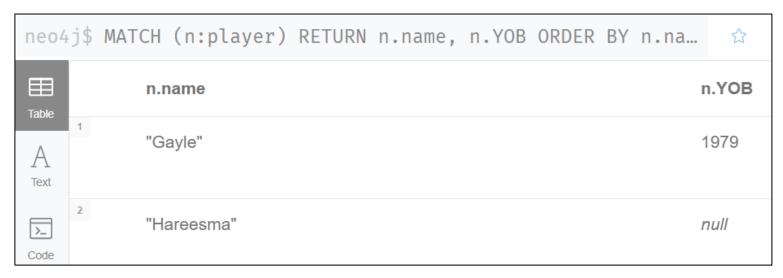
recoach) RETURN n.name, n.YOB ORDER BY n.nam...

n.YOB

n.YOB
```

Limit:

```
1 MATCH (n:player)
2 RETURN n.name, n.YOB
3 ORDER BY n.name
4 LIMIT 1 + toInteger(4 * rand())
```



Delete:

```
1 MATCH (n:player)
2 WHERE n.name = "Raj"
3 DELETE n
```

```
neo4j$ MATCH (n:player) WHERE n.name = "Raj" DELETE n

Deleted 1 node, completed after 4 ms.
```

- 1 MATCH (n)
- 2 DETACH DELETE n

Set:

```
1 MATCH (n {name: 'Hareesma'})
2 SET n.YOB = 1996
3 RETURN n.name, n.YOB
```

```
neo4j$ MATCH (n {name: 'Hareesma'}) SET n.YOB = 1996 RETUR... ☆

n.name

n.YOB

Table

Table

1 "Hareesma"

1996
```

Remove:

```
1 MATCH (a {name: 'Hareesma'})
2 REMOVE a.YOB
3 RETURN a.name, a.YOB
```

```
Server is taking a long time to respond...

neo4j$ MATCH (a {name: 'Hareesma'}) REMOVE a.YOB RETURN a.... \( \triangle \)

a.name

a.YOB

Table

1

Hareesma"

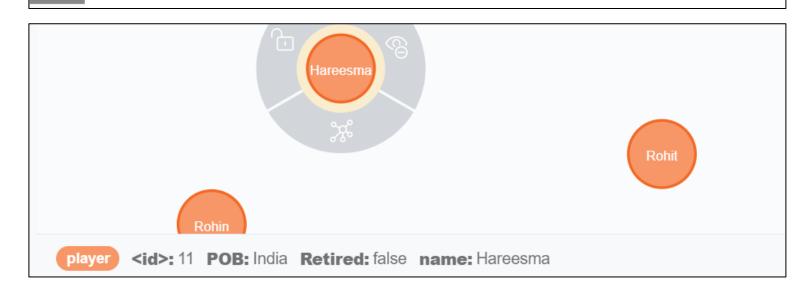
null
```

For Each:

```
1 MATCH p=(x:player)
2 FOREACH (n IN nodes(p) | SET n.Retired = false)
```

neo4j\$ MATCH p=(x:player) FOREACH (n IN nodes(p) | SET n.Retire...

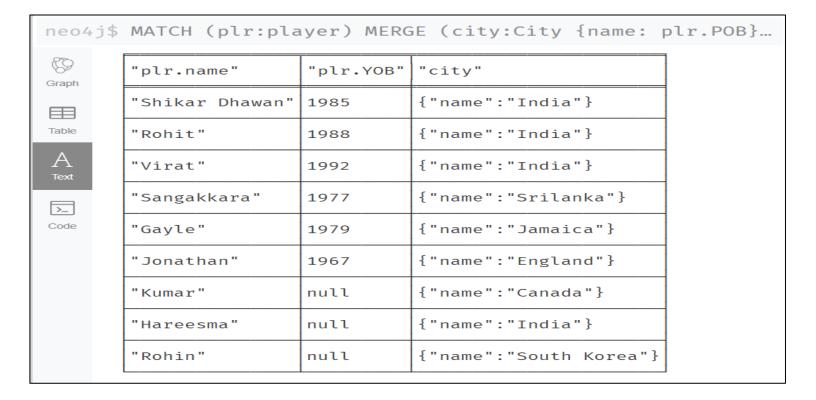
Set 9 properties, completed after 15 ms.



Merge:

Table

- 1 MATCH (plr:player)
 2 MERGE (city:City {name: plr.POB})
 - 3 RETURN plr.name, plr.YOB, city



SubQueries & Union:

```
1 CALL {
2 MATCH (p:player)
3 RETURN p
4 ORDER BY p.YOB ASC
5 LIMIT 1
6 UNION
7 MATCH (p:player)
8 RETURN p
9 ORDER BY p.YOB DESC
10 LIMIT 1
11 }
12 RETURN p.name, p.YOB
```

```
neo4j$ CALL { MATCH (p:player) RETURN p ORDER BY p.YOB ASC...

"p.name" "p.YOB"

"Jonathan" 1967

"Kumar" null
```

Call Procedure:

```
neo4j$ CALL db.labels()
```

```
neo4j$ CALL db.labels()

"label"

"player"

"coach"

"City"
```

Load CSV:

```
1 LOAD CSV FROM 'https://www.javatpoint.com/names.csv' AS line
2 CREATE (:Name { NameId: line[0], Name: line[1]})
```

```
neo4j$ LOAD CSV FROM 'https://www.javatpoint.com/names.csv' AS ...
       Added 10 labels, created 10 nodes, set 20 properties, completed after 4277 ms.
田
Table
  neo4j$ MATCH (n:Name) RETURN n.Name LIMIT 3
  Server is taking a long time to respond...
neo4j$ MATCH (n:Name) RETURN n.Name LIMIT 3
                                                                             1
 田
         "n.Name"
 Table
         "Ajeet"
 Α
 Text
         "Chandni"
 >_
         "Darshita"
Code
```