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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...



Table

collect(n.name)

1

["Virat", "Shikar Dhawan", "Sangakkara", "Sachin", "Rohit", "Rohin", "Ricky", "Raj", "Kumar", "Jonathan"]



Text

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
1	"India"
2	"Canada"
3	"South Korea"

Where:

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

```
neo4j$ MATCH (n) WHERE 1970 < n.YOB AND n.YOB ≤ 1985 RETU...
```

	n.name
1	"Shikar Dhawan"
2	"Sangakkara"
3	"Gayle"
4	"Ricky"

OrderBy:

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

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

	n.name	n.YOB
1	"Botham"	1955
2	"Ricky"	1974
3	"Sachin"	1960

Skip:

```
1 MATCH (n:coach)
2 RETURN n.name, n.YOB
3 ORDER BY n.name
4 SKIP 1
5 LIMIT 1
6
```

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

	n.name	n.YOB
1	"Ricky"	1974

Limit:

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

neo4j\$ MATCH (n:player) RETURN n.name, n.YOB ORDER BY n.name...



Table



Text



Code

n.name

n.YOB

1

"Gayle"

1979

2

"Hareesma"

null

Delete:

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

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



Table

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...



Table



Text

n.name

n.YOB

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....



Table



Text

a.name

a.YOB

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...
```



Table

Set 9 properties, completed after 15 ms.



player <id>: 11 **POB:** India **Retired:** false **name:** Hareesma

Merge:

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

```
neo4j$ MATCH (plr:player) MERGE (city:City {name: plr.POB})...
```



Graph



Table



Text



Code

"plr.name"	"plr.YOB"	"city"
"Shikar Dhawan"	1985	{"name": "India"}
"Rohit"	1988	{"name": "India"}
"Virat"	1992	{"name": "India"}
"Sangakkara"	1977	{"name": "Srilanka"}
"Gayle"	1979	{"name": "Jamaica"}
"Jonathan"	1967	{"name": "England"}
"Kumar"	null	{"name": "Canada"}
"Hareesma"	null	{"name": "India"}
"Rohin"	null	{"name": "South Korea"}

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...

Table

Text

"p.name"	"p.YOB"
"Jonathan"	1967
"Kumar"	null

Call Procedure:

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

neo4j\$ CALL db.labels()

Table

Text


Code

"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 ...


Table


Added 10 labels, created 10 nodes, set 20 properties, completed after 4277 ms.


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

Table

Text

Code

"n.Name"
"Ajeet"
"Chandni"
"Darshita"