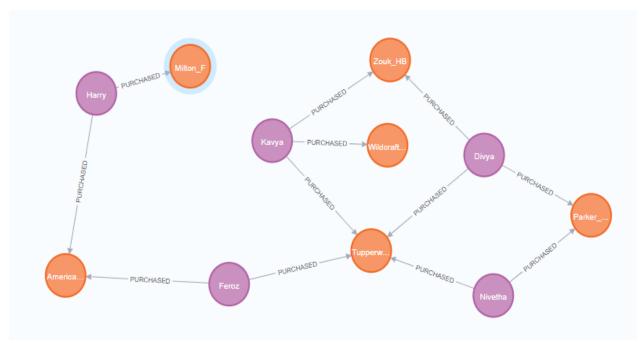
GRAPH:



Having Buyer node and Product nodes that are connected by a relationship called Purchased.

SORTING:

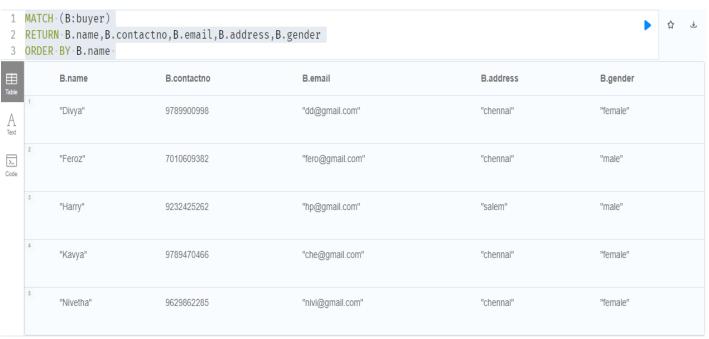
- → In data structure, the arrangement of data in a preferred ordered is called Sorting.
- → Sorting is the processing of arranging the data in ascending and descending order.
- → By sorting data, it is easier to search through it quickly and easily.

Sorted the Buyer list by their name,

MATCH (B:buyer)

RETURN B.name, B.contactno, B.email, B.address, B.gender

ORDER BY B.name



Sorted the Product list by the Product_id,

MATCH (P:product)

RETURN P.P_id,P.P_name,P.P_rate,P.P_stock

ORDER BY P.P_id

neo4j\$ MATCH (P:product) RETURN P.P_id,P.P_name,P.P_rate,P.P_stock ORDER BY P.P_id

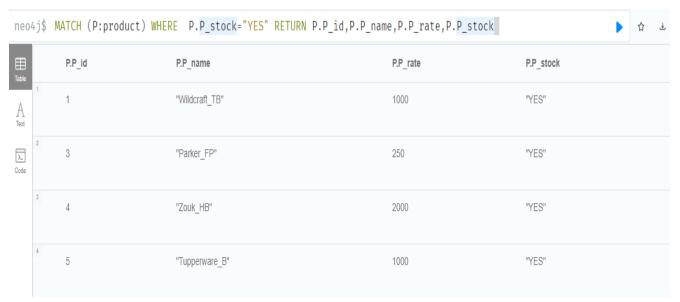
Table A Text Code		P.P_id	P.P_name	P.P_rate	P.P_stock
	1	1	"Wildcraft_TB"	1000	"YES"
	2	2	"Milton_F"	600	"YES"
	3	3	"Parker_FP"	250	"YES"
	4	4	"Zouk_HB"	2000	"YES"
	5	5	"Tupperware_B"	1000	"YES"
	6	6	"AmericanTourister_BP"	1300	"YES"

SEARCHING:

- → Searching in data-structure refers to the process of finding a desired element in a set of items.
- → The desired element is called "target".
- → Search refers to locating a desired element of specified properties in a collection of items.

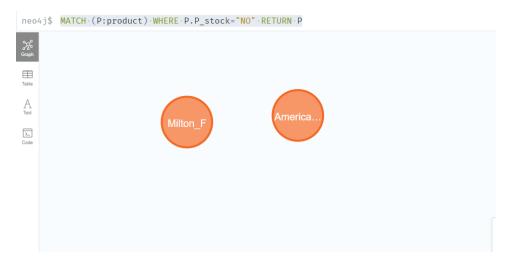
Searched the Products that are all in stock,

MATCH (P:product) WHERE P.P_stock="YES" RETURN P.P_id,P.P_name,P.P_rate,P.P_stock

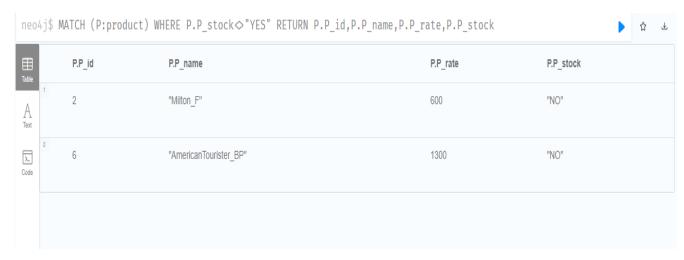


Searched the Products that are NOT in stock,

MATCH (P:product) WHERE P.P stock="NO" RETURN P



MATCH (P:product) WHERE P.P_stock<>"YES" RETURN P.P_id,P.P_name,P.P_rate,P.P_stock



PAGINATION:

In Neo4j, paginating by using **Limit and Skip** clause.

Query using Limit clause,

MATCH (B:buyer)-[:PURCHASED]->(P:product)

RETURN B.name

LIMIT 3

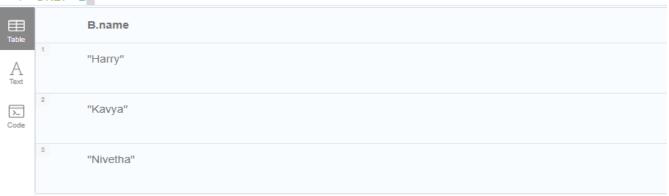
neo4j\$



Query using **Skip** clause,

MATCH(B:buyer) RETURN B.name ORDER BY B.name SKIP 2

- 1 MATCH(B:buyer)
- 2 RETURN B.name
- 3 ORDER BY B.name
- 4 SKIP 2



Fetching data by condition:

MATCH (B:buyer)-[:PURCHASED]->(P:product)

WHERE B.name="Kavya"

RETURN B.name as BUYER_NAME, P.P_name AS PRODUCT ,P.P_rate AS AMOUNT



MATCH (B:buyer)-[:PURCHASED]->(P:product)

WHERE B.name="Kavya"

RETURN B.name AS BUYER_NAME,SUM(P.P_rate) AS TOTAL_BILL_AMOUNT

- 1 MATCH (B:buyer)-[:PURCHASED] \rightarrow (P:product)
- 2 WHERE B.name="Kavya"
- 3 RETURN B.name AS BUYER_NAME, SUM(P.P_rate) AS TOTAL_BILL_AMOUNT

Table		BUYER_NAME	TOTAL_BILL_AMOUNT
A	1	"Kavya"	4000
∑_ Code			