**E-commerce with Neo4j**

1. Displaying all the nodes in the ecommerce graph

Code:

MATCH(n) RETURN(n)

A diagram of a network

Description automatically generated

1. Display all the female customers who either bought boots or they reside in Maryland.

Code:

MATCH(p:PERSON) MATCH(s:STATE) MATCH(prod:PRODUCT) WHERE (p.sex="Female") AND ((s.Name="Maryland") OR (prod.name="Winter Boots") ) RETURN(p),(s),(prod)

A diagram of a network

Description automatically generated

1. Display the customers who are users of websites Amazon and Temu & the products at that website should be less than or equal to 30 or the product name starts with “B”

Code:

MATCH(p:PERSON) MATCH(s:SOCIALMEDIA) MATCH(prod:PRODUCT)

WHERE (s.name in ["Amazon","Temu"]) and ((prod.price <= 30) or (prod.name STARTS WITH "B"))

RETURN (p),(s),(prod)

A screenshot of a computer

Description automatically generated

1. Display the products purchased from FlipKart that are famous in the states New York, Maryland and Illinois.

Code:

MATCH(s:SOCIALMEDIA) MATCH(state:STATE) MATCH(prod:PRODUCT)

WHERE (state.Name in ["New York","Illinois","Maryland"]) and (prod.rating>=4.2) and (s.name="Flipkart")

RETURN (s),(state),(prod)

A group of colorful circles with text

Description automatically generated

1. Display all users who ordered products with a price less than $20, aged 25, and reside in California:

Code:

MATCH(p:PERSON) MATCH(prod:PRODUCT) MATCH(s:STATE)

WHERE prod.price<20 and p.age=25 and s.Name="California"

RETURN (p),(prod),(s)

A diagram of a group of circles

Description automatically generated

1. Find customers who reside in Maryland and they purchased product sold by H&M.

Code:

A screenshot of a computer

Description automatically generated

1. Display all the users those are customers of Amazon

Code:

MATCH(p:PERSON)-[:USER{type:"customer"}]->(:SOCIALMEDIA{name:"Amazon"})

RETURN (p)

A black background with white circles

Description automatically generated

1. Display all the users those are sellers on these ecommerce platforms.

Code:

MATCH(p:PERSON)-[:USER{type:"seller"}]->(:SOCIALMEDIA)

RETURN (p)

A black background with a black square

Description automatically generated with medium confidence

1. Display the products kept on Wishlist by the users of all the ecommerce platform.

Code:

MATCH(p:PERSON)-[:ORDERS{type:"wishlist"}]->(prod:PRODUCT)

RETURN (p),(prod)

A diagram of different types of clothes

Description automatically generated

1. Find average rating of products sold by H&M

A screenshot of a computer

Description automatically generated