## **Database Systems**

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## Aim of the Project:

- We are aiming to design and implement a simple Twitter-like social networking platform using both MYSQL and Neo4j databases.
- > To make the practical application for both the relational and graph databases for a practical application.

#### Introduction:

The most popular social networking sites, including Twitter and Instagram, need a database design that is free of errors to function properly. It is of the utmost importance to accurately map and store all their user data and authentication data, their preferences, connections between profiles, and individual posts. Common database designs for social networking sites include quick- reference features, tools for adding and removing social media sites and channels from one's own database, and the ability to filter sites based on a variety of factors. In addition, user tables typically can search for specific content on the sites. Daily use of social networking sites is estimated to account for around three billion people throughout the globe. Twitter is making steady progress toward overtaking Facebook, which is believed to have 1.2 billion active user\_table on a monthly basis. On these websites, you could discover a variety of knowledge that is useful to you. Despite the fact that "social media" and "social networking" are not interchangeable terms, the two concepts are inextricably linked to one another. There are many kinds of social media, such as weblogs, vlogs, graphics, news articles, posts on social networks, and pictures. You may have anticipated this fact but keeping accounts on social media platforms also demands you to handle vast amounts of data that come from a variety of different sources. The term "Bigfoot" has been appropriated for usage in the context of business to refer to very large amounts of data. This project's goal is to create a simple social networking website with functionality similar to that of Twitter by using the MySQL and Neo4j graph databases.

## **Objectives:**

The purpose of the project is to design and implement the database system of the Twitter platform using relational data and graph databases. Both the relational datastores and graph database has their functional-specific advantages, and one is preferred over another based on different computations for efficient data retrieval.

In one word:

This project's goal is to create a simple social networking website with functionality like that of Twitter by using the MySQL and Neo4j graph databases.

# **Database Design**

# > ER Diagram for MySQL Implementation

To understand the database, we can draw our entity-relationship model, which would make our job easy. ER model is defined as an entity-relationship model that describes interrelated things of interest in a specific domain of knowledge. An ER model is composed of entity types and relationships that can exist between entities. It illustrates how entities such as people, objects or concepts relate to each other.

We have different tables in the database and my database name is 'twitter_database
To create and use that database
To create
Create database twitter_database;
To use the
database Use
twitter_database
Later using the greate and insert statements of MVCOL Lerested different tables. The

Later using the create and insert statements of MYSQL, I created different tables. The

tables in the Mysql are

- 1. User\_table
- 2. Followers\_table
- 3. Comments\_table
- 4. Feeds\_table
- 5. Retweets\_table

#### Every table has its constraints or columns

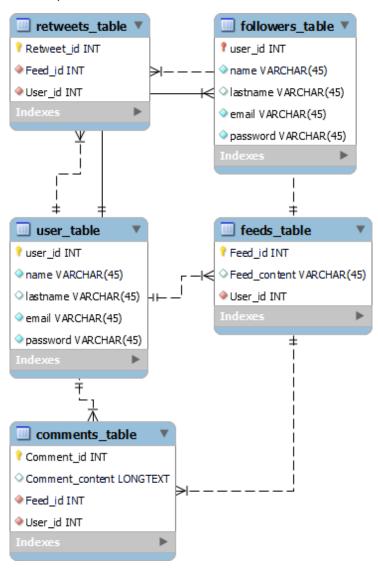
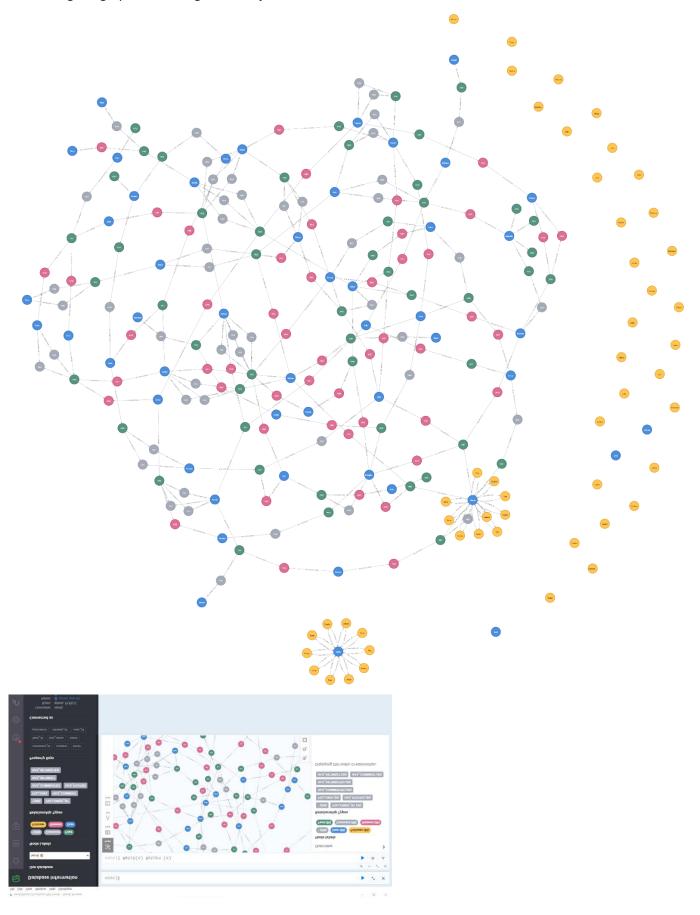


Fig1: ER diagram of Twitter-like social media

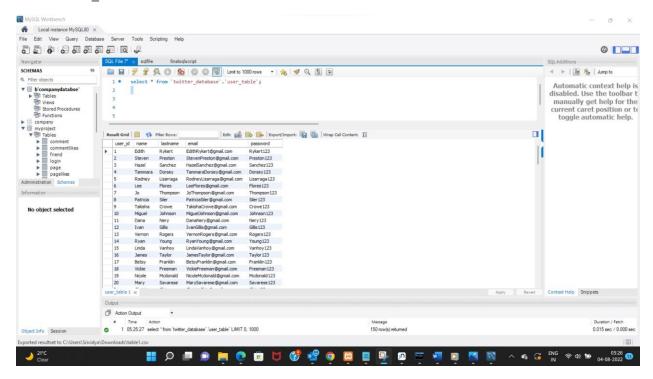
# But we get a graph even using the Neo4j



# **Database**

We have 5 different tables so let me add the images of all the tables existing in my database

1. User\_table



Values of user\_table

user id		name	lastname	email	password
	1	Edith	Rykert	EdithRykert@gmail.com	Rykert123
	2	Steven	Preston	StevenPreston@gmail.com	Preston123
	3	Hazel	Sanchez	HazelSanchez@gmail.com	Sanchez123
	4	Tammara	Dorsey	TammaraDorsey@gmail.com	Dorsey123
	5	Rodney	Lizarraga	RodneyLizarraga@gmail.com	Lizarraga123
	6	Lee	Flores	LeeFlores@gmail.com	Flores123
	7	Jo	Thompson	JoThompson@gmail.com	Thompson123
	8	Patricia	Siler	PatriciaSiler@gmail.com	Siler123
	9	Takisha	Crowe	TakishaCrowe@gmail.com	Crowe123
	10	Miguel	Johnson	MiguelJohnson@gmail.com	Johnson123
	11	Dana	Nery	DanaNery@gmail.com	Nery123
	12	lvan	Gillis	IvanGillis@gmail.com	Gillis123
	13	Vernon	Rogers	VernonRogers@gmail.com	Rogers123
	14	Ryan	Young	RyanYoung@gmail.com	Young123

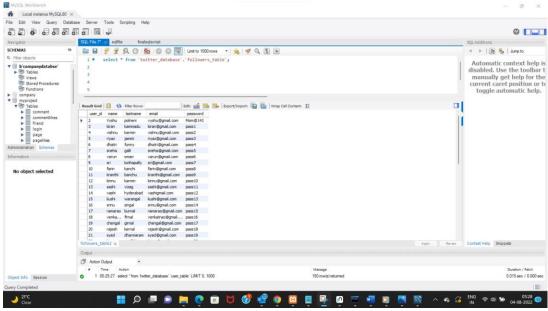
		_		_
15	Linda	Vanhoy	LindaVanhoy@gmail.com	Vanhoy123
16	James	Taylor	JamesTaylor@gmail.com	Taylor123
17	Betsy	Franklin	BetsyFranklin@gmail.com	Franklin123
18	Vickie	Freeman	VickieFreeman@gmail.com	Freeman123
19	Nicole	Mcdonald	NicoleMcdonald@gmail.com	Mcdonald123
20	Mary	Savarese	MarySavarese@gmail.com	Savarese123
21	Christy	Chin	ChristyChin@gmail.com	Chin123
22	Sharon	Briggs	SharonBriggs@gmail.com	Briggs123
23	Ronald	Apo	RonaldApo@gmail.com	Apo123
24	Keith	Lowe	KeithLowe@gmail.com	Lowe123
25	Scott	Morales	ScottMorales@gmail.com	Morales123
26	Cameron	Cogar	CameronCogar@gmail.com	Cogar123
27	Amy	Price	AmyPrice@gmail.com	Price123
28	Charles	Archie	CharlesArchie@gmail.com	Archie123
29	Mark	Kerwood	MarkKerwood@gmail.com	Kerwood123
30	Beverly	Schulz	BeverlySchulz@gmail.com	Schulz123
31	Joan	Rivera	JoanRivera@gmail.com	Rivera123
32	Margo	Vecker	MargoVecker@gmail.com	Vecker123
33	Richard	Tyson	RichardTyson@gmail.com	Tyson123
34	Susan	Carr	SusanCarr@gmail.com	Carr123
35	Lisa	Brown	LisaBrown@gmail.com	Brown123
36	Rebecca	Massie	RebeccaMassie@gmail.com	Massie123
37	Sidney	Scott	SidneyScott@gmail.com	Scott123
	•		,	
38	Glenda	Warrington	GlendaWarrington@gmail.com	Warrington123
38 39	Glenda Sarah	Warrington Walk	GlendaWarrington@gmail.com SarahWalk@gmail.com	Warrington123 Walk123
39	Sarah	Walk	SarahWalk@gmail.com	Walk123
39 40	Sarah Sherrie	Walk Gaters	SarahWalk@gmail.com SherrieGaters@gmail.com	Walk123 Gaters123
39 40 41	Sarah Sherrie George	Walk Gaters Thomas	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com	Walk123 Gaters123 Thomas123
39 40 41 42	Sarah Sherrie George Pat	Walk Gaters Thomas Johnson	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com	Walk123 Gaters123 Thomas123 Johnson123
39 40 41 42 43	Sarah Sherrie George Pat Phillip	Walk Gaters Thomas Johnson Garza	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123
39 40 41 42 43 44	Sarah Sherrie George Pat Phillip Kevin	Walk Gaters Thomas Johnson Garza Johnson	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123
39 40 41 42 43 44 45	Sarah Sherrie George Pat Phillip Kevin Carolyn	Walk Gaters Thomas Johnson Garza Johnson Modlin	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123
39 40 41 42 43 44 45 46	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123
39 40 41 42 43 44 45 46 47	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123
39 40 41 42 43 44 45 46 47	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123
39 40 41 42 43 44 45 46 47 48	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123
39 40 41 42 43 44 45 46 47 48 49 50	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123
39 40 41 42 43 44 45 46 47 48 49 50 51	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123
39 40 41 42 43 44 45 46 47 48 49 50 51	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin Matthew	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price Hong	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com MatthewHong@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123 Hong123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin Matthew David	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price Hong Mcfee	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com MatthewHong@gmail.com DavidMcfee@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123 Hong123 Mcfee123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin Matthew David Stacy	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price Hong Mcfee Leon	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com MatthewHong@gmail.com DavidMcfee@gmail.com StacyLeon@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123 Hong123 Mcfee123 Leon123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin Matthew David Stacy Sherry	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price Hong Mcfee Leon Laitila	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com MatthewHong@gmail.com DavidMcfee@gmail.com StacyLeon@gmail.com SherryLaitila@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123 Hong123 Mcfee123 Leon123 Laitila123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin Matthew David Stacy Sherry Cornelia	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price Hong Mcfee Leon Laitila Brooks	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com MatthewHong@gmail.com DavidMcfee@gmail.com StacyLeon@gmail.com SherryLaitila@gmail.com CorneliaBrooks@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123 Hong123 Mcfee123 Leon123 Laitila123 Brooks123
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Sarah Sherrie George Pat Phillip Kevin Carolyn Robert Benjamin Walter Laura Jewel Joseph Tina Alvin Matthew David Stacy Sherry	Walk Gaters Thomas Johnson Garza Johnson Modlin Bare Smith Shaw Carrillo Jennings Wagner Rosser Price Hong Mcfee Leon Laitila	SarahWalk@gmail.com SherrieGaters@gmail.com GeorgeThomas@gmail.com PatJohnson@gmail.com PhillipGarza@gmail.com KevinJohnson@gmail.com CarolynModlin@gmail.com RobertBare@gmail.com BenjaminSmith@gmail.com WalterShaw@gmail.com LauraCarrillo@gmail.com JewelJennings@gmail.com JosephWagner@gmail.com TinaRosser@gmail.com AlvinPrice@gmail.com MatthewHong@gmail.com DavidMcfee@gmail.com StacyLeon@gmail.com SherryLaitila@gmail.com	Walk123 Gaters123 Thomas123 Johnson123 Garza123 Johnson123 Modlin123 Bare123 Smith123 Shaw123 Carrillo123 Jennings123 Wagner123 Rosser123 Price123 Hong123 Mcfee123 Leon123 Laitila123

60	Jessica	Cardello	JessicaCardello@gmail.com	Cardello123
61	Serena	Raynor	SerenaRaynor@gmail.com	Raynor123
62	Walter	Dunham	WalterDunham@gmail.com	Dunham123
63	Claudine	Fala	ClaudineFala@gmail.com	Fala123
64	James	Scofield	JamesScofield@gmail.com	Scofield123
65	Kenneth	Webb	KennethWebb@gmail.com	Webb123
66	Beverly	Brown	BeverlyBrown@gmail.com	Brown123
67	Donald	Day	DonaldDay@gmail.com	Day123
68	Sharon	Miga	SharonMiga@gmail.com	Miga123
69	Linda	Huffman	LindaHuffman@gmail.com	Huffman123
70	Lesia	Degen	LesiaDegen@gmail.com	Degen123
71	Micah	Pena	MicahPena@gmail.com	Pena123
72	Kevin	Lopez	KevinLopez@gmail.com	Lopez123
73	Harold	Benner	HaroldBenner@gmail.com	Benner123
74	Patty	Davis	PattyDavis@gmail.com	Davis123
75	Bobby	Reed	BobbyReed@gmail.com	Reed123
76	Laura	Carey	LauraCarey@gmail.com	Carey123
77	Dorothy	Sanchez	DorothySanchez@gmail.com	Sanchez123
78	Jason	Perrez	JasonPerrez@gmail.com	Perrez123
79	Jesus	Rollins	JesusRollins@gmail.com	Rollins123
80	Rhonda	Duke	RhondaDuke@gmail.com	Duke123
81	Darlene	Brown	DarleneBrown@gmail.com	Brown123
82	Carla	Kain	CarlaKain@gmail.com	Kain123
83	Sharmaine	Faust	SharmaineFaust@gmail.com	Faust123
84	Ernie	Kelly	ErnieKelly@gmail.com	Kelly123
85	Estella	Bradley	EstellaBradley@gmail.com	Bradley123
86	David	Smith	DavidSmith@gmail.com	Smith123
07	Vinah orly	Messersmit	KimberlyMessersmith@gmail.co	Messersmith12 3
87	Kimberly	h Williams	m Billio Millione a Compail on the	
88	Billy		BillyWilliams@gmail.com	Williams123
89	Patricia	Jackson	PatriciaJackson@gmail.com	Jackson123
90 91	Mary Jonathan	Strong Jones	MaryStrong@gmail.com	Strong123 Jones123
92	Delia	Current	JonathanJones@gmail.com DeliaCurrent@gmail.com	Current123
93	Lloyd	Wilkes	LloydWilkes@gmail.com	Wilkes123
93 94	Dana	Harty	DanaHarty@gmail.com	Harty123
95	Lori	•	LoriTieng@gmail.com	•
95 96		Tieng Guadagno	AlejandroGuadagno@gmail.com	Tieng123 Guadagno123
97	Alejandro Briana	Rauch	BrianaRauch@gmail.com	Rauch123
98	Joseph	Gonzalez	JosephGonzalez@gmail.com	Gonzalez123
99	David	Gutierrez	DavidGutierrez@gmail.com	Gutierrez123
100	Jennifer	Ford	JenniferFord@gmail.com	Ford123
100	Gloria	Wright	GloriaWright@gmail.com	Wright123
101	Jeffrey	Flint	JeffreyFlint@gmail.com	Flint123
103	Gerald	Voyer	GeraldVoyer@gmail.com	Voyer123
_00	50.0.0	,	2 2 2 2 2 7 2 C B. (1800)	- 0, 00

104	Paul	Riley	PaulRiley@gmail.com	Riley123
105	Devin	Fisher	DevinFisher@gmail.com	Fisher123
106	Laura	Mclean	LauraMclean@gmail.com	Mclean123
107	Donna	Lorentz	DonnaLorentz@gmail.com	Lorentz123
108	Willie	Smallidge	WillieSmallidge@gmail.com	Smallidge123
109	Gary	Mills	GaryMills@gmail.com	Mills123
110	Raquel	Pacheco	RaquelPacheco@gmail.com	Pacheco123
111	Randall	Rodgers	RandallRodgers@gmail.com	Rodgers123
112	Sean	Hudson	SeanHudson@gmail.com	Hudson123
113	Jose	Olson	JoseOlson@gmail.com	Olson123
114	John	Schafer	JohnSchafer@gmail.com	Schafer123
115	Hoa	Sajovic	HoaSajovic@gmail.com	Sajovic123
116	Teresa	Pearson	TeresaPearson@gmail.com	Pearson123
117	Teresa	Espinoza	TeresaEspinoza@gmail.com	Espinoza123
118	Margaret	Fadden	MargaretFadden@gmail.com	Fadden123
119	Brittany	Crayton	BrittanyCrayton@gmail.com	Crayton123
120	Barry	Wilt	BarryWilt@gmail.com	Wilt123
121	Patricia	Cahall	PatriciaCahall@gmail.com	Cahall123
122	Leon	Mcdonald	LeonMcdonald@gmail.com	Mcdonald123
123	George	Peoples	GeorgePeoples@gmail.com	Peoples123
124	Sandra	Butler	SandraButler@gmail.com	Butler123
125	Marvin	Stracener	MarvinStracener@gmail.com	Stracener123
126	Pamela	Beller	PamelaBeller@gmail.com	Beller123
127	Myrtle	Smith	MyrtleSmith@gmail.com	Smith123
128	Eric	Hatfield	EricHatfield@gmail.com	Hatfield123
129	Frank	Soriano	FrankSoriano@gmail.com	Soriano123
130			_	Rogers123
131	Randy	Rogers	RandyRogers@gmail.com	-
132	Sylvia	Tapp Cato	SylviaTapp@gmail.com	Tapp123 Cato123
133	Olga Janie		OlgaCato@gmail.com	
134	Paul	Daggett Chilton	JanieDaggett@gmail.com PaulChilton@gmail.com	Daggett123 Chilton123
	Dennis	Numbers	<del>-</del>	Numbers123
135 136	Angelina	Castellana	DennisNumbers@gmail.com AngelinaCastellana@gmail.com	Castellana123
137	_	Marcum	BeverlyMarcum@gmail.com	Marcum123
	Beverly			
138	Inez	Kapper Barnett	InezKapper@gmail.com	Kapper123 Barnett123
139 140	Jesse		JesseBarnett@gmail.com	
	Deborah	Kelley	DeborahKelley@gmail.com	Kelley123
141 142	Josie	Reynolds Tanner	JosieReynolds@gmail.com	Reynolds123 Tanner123
	Jodi		JodiTanner@gmail.com	
143 144	Nancy	Casey	NancyCasey@gmail.com	Casey123
	Timothy	Terry Wheeler	TimothyTerry@gmail.com	Terry123 Wheeler123
145	Carla		CarlaWheeler@gmail.com	
146	Seth	Stokes	SethStokes@gmail.com	Stokes123
147 148	Joseph Sharon	Bridges	JosephBridges@gmail.com	Bridges123
140	SilaiUii	Haynes	SharonHaynes@gmail.com	Haynes123

149	Donna	Cox	DonnaCox@gmail.com	Cox123
150	Mona	Adam	MonaAdam@gmail.com	Adam123

#### 2. Followers\_table

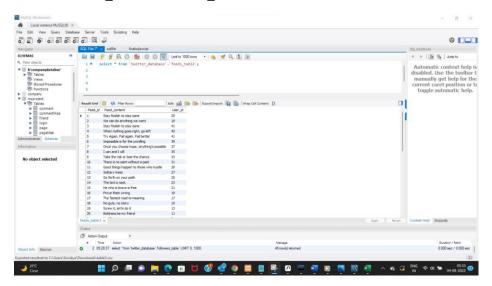


Values from followers\_table

user_id  2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	name Vyshu kiran vishnu riyaz dhatri sneha varun sri farin kranthi kinnu sashi vashi kushi srinu ramarao venkatrao chengal rajesh	lastname polneni kammadu karmin jammi funny galli oman kothapally kanchi banchu karmin vizag hyderabad warangal singal burnal firnal girnal kernal	email vyshu@gmail.com kiran@gmail.com vishnu@gmail.com riyaz@gmail.com dhatri@gmail.com sneha@gmail.com varun@gmail.com sri@gmail.com farin@gmail.com kranthi@gmail.com kranthi@gmail.com kinnu@gmail.com vashi@gmail.com vashigmail.com vashigmail.com vashigmail.com voshigmail.com ramarao@gmail.com remarao@gmail.com venkatrao@gmail.com chengal@gmail.com rajesh@gmail.com	password Mom@143 pass1 pass2 pass3 pass4 pass5 pass6 pass7 pass8 pass9 pass10 pass11 pass12 pass12 pass13 pass14 pass15 pass16 pass17 pass18
		-	<del>-</del>	•
20	rajesh	kernal	rajesh@gmail.com	-
21	syed	dharmaram	syed@gmail.com	pass19
22	, kinnu	verifal	kinnu@gmail.com	pass20
23	chitti	mariyal	chitti@gmail.com	pass21
25	••		5	p =====

24	baby	gariyal	baby@gmail.com	pass22
25	kutti	dhuniyal	kutti@gmail.com	pass23
26	gundu	phonial	gundu@gmail.com	pass24
27	banda	cheniyal	banda@gmail.com	pass25
28	anu	varnial	anu@gmail.com	pass25
29	ravi	memphial	ravi@gmail.com	pass26
30	akhil	chunial	akhil@gmail.com	pass27
31	shainu	chickiyal	shainu@gmail.com	pass28
32	chinni	manial	chinni@gmail.com	pass29
33	punnu	dunial	punnu@gmail.com	pass30
34	kinnur	cheriyal	kinnur@gmail.com	pass31
35	banda	kominal	banda@gmail.com	pass32
36	chelli	hernial	chelli@gmail.com	pass33
37	sakiya	ijinal	sakiya@gmail.com	pass34
38	varyia	marignal	variya@gmail.com	pass35
39	gariya	dornial	gariya@gmail.com	pass36
40	cheruvu	umbinal	cheruvu@gmail.com	pass37
41	baruvu	chiginal	baruvu@gmail.com	pass38
42	komala	maphinal	komala@gmail.com	pass39
43	vimala	farinal	vimala@gmail.com	pass40
44	nyruthi	aginal	nyruthi@gmail.com	pass41
45	prakruthi	karinal	prakruthi@gmail.com	pass42
46	chanluthi	hernial	chanluthi@gmail.com	pass43
47	gamluthi	abunal	gamluthi@gmail.com	pass44
48	karluthi	eginal	karluthi@gmail.com	pass45
49	jailuthi	duginal	jailuthi@gmail.com	pass46
50	alnubhi	alunum	alnubhi@gmail.com	pass47

# 3. `twitter\_database`.`feeds\_table`

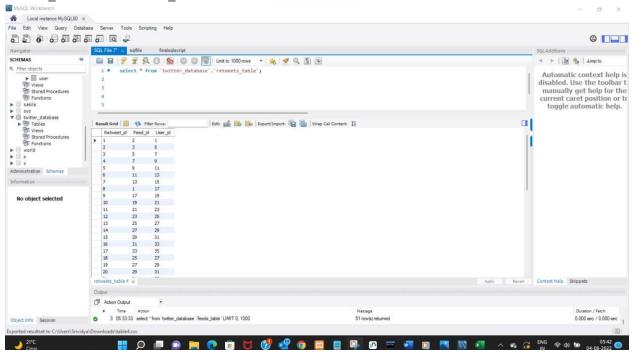


# Values from feeds\_table

Feed_id		Feed_content	User_id
	1	Stay foolish to stay sane	25
	2	We can do anything we want	19
	3	Stay foolish to stay sane	41
	4	When nothing goes right, go left	43
	5	Try Again. Fail again. Fail better	41
	6	Impossible is for the unwilling	39
	7	Once you choose hope, anything's possible	37
	8	I can and I will	35
	9	Take the risk or lose the chance	33
	10	There is no saint without a past	31
	11	Good things happen to those who hustle	29
	12	Solitary trees	27
	13	Go forth on your path	25
	14	The bird a nest,	23
	15	He who is brave is free	21
	16	Prove them wrong	19
	17	The fastest road to meaning	17
	18	No guts, no story	15
	19	Screw it, let?s do it	13
	20	Boldness be my friend	11
	21	My life is my message	9
	22	Keep going	7
	23	Dream big	3
	24	Dream big	1
	25	Boldness be my friend	2
	26	Screw it, let?s do it	4
	27	Boldness be my friend	6
	28	My life is my message	8
	29	brave is free	10
	30	I wasn't unable to enjoy	12
	31	In a way.	14
	32	The more	16
	33	Eventually, I started my own website	18
	34	And so the adventure begins	20
	35	If you want it, work for it	22
	36	And so the adventure begins	24
	37	Grow through what you go through	26
	38	Do it with passion or not at all	28
	39	Forget about style; worry about results	30
	40	Success is the child of audacity	32
	41	Whatever you do, do with all your might	34

42	Whatever you do, do with all your might	34
43	We are twice armed if we fight with faith	36
44	Be faithful	38
45	Let him do	40
46	Persistence guarantees	42
47	The wisest mind has done	44
48	Fall seven times, stand up eight	46
49	Seek the seeker	48
50	Silence is an answer too	50
51	Every wall is a door	51

4. `twitter\_database`.`retweets\_table`

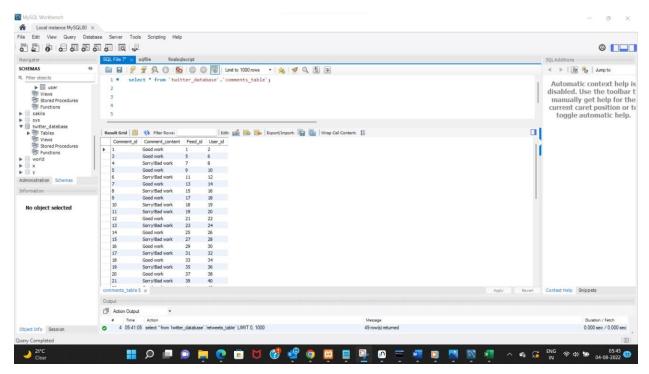


#### Values to retweet\_tables

Retweet_id	Feed_id		User_id
1		2	1
2		3	5
3		5	7
4		7	9
5		9	11
6		11	13
7		13	15
8		1	17
9		17	19
10		19	21
11		21	23

12	23	25
13	25	27
14	27	29
15	29	31
16	31	33
17	33	35
18	25	27
19	27	29
20	29	31
21	31	33
22	35	37
23	37	39
24	39	41
25	41	43
26	43	45
27	45	47
28	47	49
29	49	51
30	2	53
31	4	55
32	6	57
33	8	59
34	10	61
35	12	63
36	14	65
37	16	67
38	18	69
39	20	71
40	22	73
41	24	75
42	26	77
44	28	79
45	30	81
46	32	83
47	34	85
48	36	87
49	38	89
50	40	91

#### 5. comments\_table



#### Values in the table

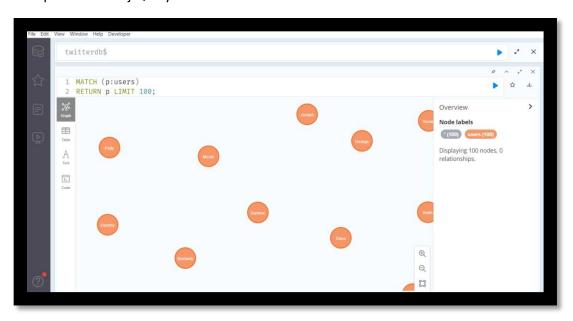
Comment id	Comment_content	Feed_id	User_id
1	Good work	_ 1	_ 2
3	Good work	5	6
4	Sorry!Bad work	7	8
5	Good work	9	10
6	Sorry!Bad work	11	12
7	Good work	13	14
8	Sorry!Bad work	15	16
9	Good work	17	18
10	Sorry!Bad work	18	19
11	Sorry!Bad work	19	20
12	Good work	21	22
13	Sorry!Bad work	23	24
14	Good work	25	26
15	Sorry!Bad work	27	28
16	Good work	29	30
17	Sorry!Bad work	31	32
18	Good work	33	34
19	Sorry!Bad work	35	36
20	Good work	37	38
21	Sorry!Bad work	39	40
22	Good work	41	42
23	Sorry!Bad work	43	44

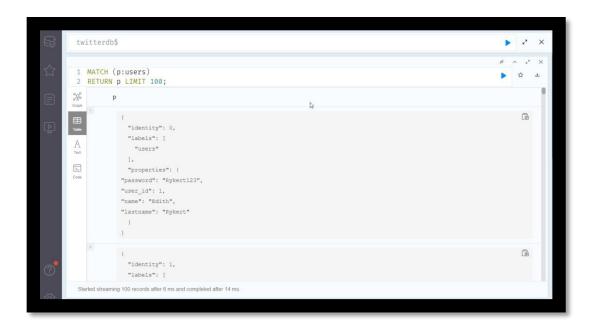
2	24	Good work	45	46
2	25	Sorry!Bad work	47	48
2	26	Good work	48	49
2	27	Sorry!Bad work	50	51
2	28	Good work	2	53
2	29	Sorry!Bad work	4	55
3	80	Good work	6	57
3	31	Sorry!Bad work	8	59
3	32	Sorry!Bad work	10	61
3	3	Good work	12	63
3	34	Sorry!Bad work	14	65
3	35	Good work	16	67
3	86	Sorry!Bad work	18	69
3	37	Good work	20	71
3	88	Sorry!Bad work	21	73
3	89	Good work	22	75
4	10	Sorry!Bad work	24	77
4	1	Good work	26	79
4	12	Good work	30	83
4	13	Sorry!Bad work	32	85
4	14	Good work	34	87
4	ŀ5	Sorry!Bad work	36	89
4	ŀ6	Good work	38	91
4	17	Sorry!Bad work	40	93
4	18	Good work	42	95
4	19	Sorry!Bad work	44	97
5	0	Good work	46	99

## > Neo4J

Neo4j is a graph database management system developed by Neo4j, Inc. Neo4j delivers the lightning-fast read and write performance you need, while still protecting your data integrity. It is the only enterprise-strength graph database that combines native graph storage, scalable architecture optimized for speed, and ACID compliance to ensure predictability of relationship-based queries.

### Example for a Neo4j Query





# Queries

```
CREATE TABLE 'twitter_database'.'user_table' (
`user_id` INT NOT NULL,
'name' VARCHAR(45) NOT NULL,
'lastname' VARCHAR(45) NULL,
`email` VARCHAR(45) NOT NULL,
`password` VARCHAR(45) NOT NULL,
PRIMARY KEY ('user_id'));
CREATE TABLE `twitter_database`.`followers_table` (
`user_id` INT NOT NULL,
'name' VARCHAR(45) NOT NULL,
'lastname' VARCHAR(45) NULL,
'email' VARCHAR(45) NOT NULL,
`password` VARCHAR(45) NOT NULL,
PRIMARY KEY ('user_id'),
FOREIGN KEY (user_id) REFERENCES user_table(user_id));
CREATE TABLE 'twitter_database'.'feeds_table' (
`Feed_id` INT NOT NULL,
`Feed_content` VARCHAR(45) NULL,
`User_id` INT NOT NULL,
PRIMARY KEY ('Feed_id'),
FOREIGN KEY (User_id) REFERENCES user_table(user_id));
```

CREATE SCHEMA 'twitter\_database';

```
select * from `twitter_database`.`feeds_table`;
CREATE TABLE `twitter_database`.`retweets_table` (
`Retweet_id` INT NOT NULL,
`Feed_id` INT NOT NULL,
`User_id` INT NOT NULL,
PRIMARY KEY ('Retweet_id'),
FOREIGN KEY (User_id) REFERENCES user_table(user_id),
FOREIGN KEY (Feed_id) REFERENCES feeds_table(Feed_id)
);
CREATE TABLE `twitter_database`.`comments_table` (
`Comment_id` INT NOT NULL,
`Comment_content` LONGTEXT NULL,
`Feed_id` INT NOT NULL,
`User_id` INT NOT NULL,
PRIMARY KEY ('Comment_id'),
FOREIGN KEY (User_id) REFERENCES user_table(user_id),
FOREIGN KEY (Feed_id) REFERENCES feeds_table(Feed_id));
#select * from 'twitter_database'.'comments_table';
SELECT * FROM twitter_database.user_table;
INSERT INTO 'twitter_database'.'user_table' ('user_id', 'name', 'lastname', 'email', 'password') VALUES
('1', 'Edith', 'Rykert', 'EdithRykert@gmail.com', 'Rykert123');
```

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('2', 'Steven', 'Preston', 'StevenPreston@gmail.com', 'Preston123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('3', 'Hazel', 'Sanchez', 'HazelSanchez@gmail.com', 'Sanchez123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('4', 'Tammara', 'Dorsey', 'TammaraDorsey@gmail.com', 'Dorsey123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('5', 'Rodney', 'Lizarraga', 'RodneyLizarraga@gmail.com', 'Lizarraga123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('6', 'Lee', 'Flores', 'LeeFlores@gmail.com', 'Flores123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('7', 'Jo', 'Thompson', 'JoThompson@gmail.com', 'Thompson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('8', 'Patricia', 'Siler', 'PatriciaSiler@gmail.com', 'Siler123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('9', 'Takisha', 'Crowe', 'TakishaCrowe@gmail.com', 'Crowe123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('10', 'Miguel', 'Johnson', 'MiguelJohnson@gmail.com', 'Johnson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('11', 'Dana', 'Nery', 'DanaNery@gmail.com', 'Nery123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('12', 'Ivan', 'Gillis', 'IvanGillis@gmail.com', 'Gillis123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('13', 'Vernon', 'Rogers', 'VernonRogers@gmail.com', 'Rogers123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('14', 'Ryan', 'Young', 'RyanYoung@gmail.com', 'Young123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('15', 'Linda', 'Vanhoy', 'LindaVanhoy@gmail.com', 'Vanhoy123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('16', 'James', 'Taylor', 'JamesTaylor@gmail.com', 'Taylor123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('17', 'Betsy', 'Franklin', 'BetsyFranklin@gmail.com', 'Franklin123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('18', 'Vickie', 'Freeman', 'VickieFreeman@gmail.com', 'Freeman123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('19', 'Nicole', 'Mcdonald', 'NicoleMcdonald@gmail.com', 'Mcdonald123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('20', 'Mary', 'Savarese', 'MarySavarese@gmail.com', 'Savarese123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('21', 'Christy', 'Chin', 'ChristyChin@gmail.com', 'Chin123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('22', 'Sharon', 'Briggs', 'SharonBriggs@gmail.com', 'Briggs123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('23', 'Ronald', 'Apo', 'RonaldApo@gmail.com', 'Apo123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('24', 'Keith', 'Lowe', 'KeithLowe@gmail.com', 'Lowe123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('25', 'Scott', 'Morales', 'ScottMorales@gmail.com', 'Morales123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('26', 'Cameron', 'Cogar', 'CameronCogar@gmail.com', 'Cogar123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('27', 'Amy', 'Price', 'AmyPrice@gmail.com', 'Price123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('28', 'Charles', 'Archie', 'CharlesArchie@gmail.com', 'Archie123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('29', 'Mark', 'Kerwood', 'MarkKerwood@gmail.com', 'Kerwood123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('30', 'Beverly', 'Schulz', 'BeverlySchulz@gmail.com', 'Schulz123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('31', 'Joan', 'Rivera', 'JoanRivera@gmail.com', 'Rivera123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('32', 'Margo', 'Vecker', 'MargoVecker@gmail.com', 'Vecker123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('33', 'Richard', 'Tyson', 'RichardTyson@gmail.com', 'Tyson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('34', 'Susan', 'Carr', 'SusanCarr@gmail.com', 'Carr123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('35', 'Lisa', 'Brown', 'LisaBrown@gmail.com', 'Brown123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('36', 'Rebecca', 'Massie', 'RebeccaMassie@gmail.com', 'Massie123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('37', 'Sidney', 'Scott', 'SidneyScott@gmail.com', 'Scott123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('38', 'Glenda', 'Warrington', 'GlendaWarrington@gmail.com', 'Warrington123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('39', 'Sarah', 'Walk', 'SarahWalk@gmail.com', 'Walk123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('40', 'Sherrie', 'Gaters', 'SherrieGaters@gmail.com', 'Gaters123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('41', 'George', 'Thomas', 'GeorgeThomas@gmail.com', 'Thomas123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('42', 'Pat', 'Johnson', 'PatJohnson@gmail.com', 'Johnson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('43', 'Phillip', 'Garza', 'PhillipGarza@gmail.com', 'Garza123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('44', 'Kevin', 'Johnson', 'KevinJohnson@gmail.com', 'Johnson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('45', 'Carolyn', 'Modlin', 'CarolynModlin@gmail.com', 'Modlin123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('46', 'Robert', 'Bare', 'RobertBare@gmail.com', 'Bare123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('47', 'Benjamin', 'Smith', 'BenjaminSmith@gmail.com', 'Smith123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('48', 'Walter', 'Shaw', 'WalterShaw@gmail.com', 'Shaw123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('49', 'Laura', 'Carrillo', 'LauraCarrillo@gmail.com', 'Carrillo123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('50', 'Jewel', 'Jennings', 'JewelJennings@gmail.com', 'Jennings123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('51', 'Joseph', 'Wagner', 'JosephWagner@gmail.com', 'Wagner123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('52', 'Tina', 'Rosser', 'TinaRosser@gmail.com', 'Rosser123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('53', 'Alvin', 'Price', 'AlvinPrice@gmail.com', 'Price123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('54', 'Matthew', 'Hong', 'MatthewHong@gmail.com', 'Hong123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('55', 'David', 'Mcfee', 'DavidMcfee@gmail.com', 'Mcfee123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('56', 'Stacy', 'Leon', 'StacyLeon@gmail.com', 'Leon123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('57', 'Sherry', 'Laitila', 'SherryLaitila@gmail.com', 'Laitila123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('58', 'Cornelia', 'Brooks', 'CorneliaBrooks@gmail.com', 'Brooks123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('59', 'Mary', 'Nickles', 'MaryNickles@gmail.com', 'Nickles123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('60', 'Jessica', 'Cardello', 'JessicaCardello@gmail.com', 'Cardello123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('61', 'Serena', 'Raynor', 'SerenaRaynor@gmail.com', 'Raynor123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('62', 'Walter', 'Dunham', 'WalterDunham@gmail.com', 'Dunham123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('63', 'Claudine', 'Fala', 'ClaudineFala@gmail.com', 'Fala123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('64', 'James', 'Scofield', 'JamesScofield@gmail.com', 'Scofield123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('65', 'Kenneth', 'Webb', 'KennethWebb@gmail.com', 'Webb123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('66', 'Beverly', 'Brown', 'BeverlyBrown@gmail.com', 'Brown123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('67', 'Donald', 'Day', 'DonaldDay@gmail.com', 'Day123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('68', 'Sharon', 'Miga', 'SharonMiga@gmail.com', 'Miga123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('69', 'Linda', 'Huffman', 'LindaHuffman@gmail.com', 'Huffman123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('70', 'Lesia', 'Degen', 'LesiaDegen@gmail.com', 'Degen123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('71', 'Micah', 'Pena', 'MicahPena@gmail.com', 'Pena123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('72', 'Kevin', 'Lopez', 'KevinLopez@gmail.com', 'Lopez123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('73', 'Harold', 'Benner', 'HaroldBenner@gmail.com', 'Benner123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('74', 'Patty', 'Davis', 'PattyDavis@gmail.com', 'Davis123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('75', 'Bobby', 'Reed', 'BobbyReed@gmail.com', 'Reed123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('76', 'Laura', 'Carey', 'LauraCarey@gmail.com', 'Carey123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('77', 'Dorothy', 'Sanchez', 'DorothySanchez@gmail.com', 'Sanchez123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('78', 'Jason', 'Perrez', 'JasonPerrez@gmail.com', 'Perrez123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('79', 'Jesus', 'Rollins', 'JesusRollins@gmail.com', 'Rollins123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('80', 'Rhonda', 'Duke', 'RhondaDuke@gmail.com', 'Duke123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('81', 'Darlene', 'Brown', 'DarleneBrown@gmail.com', 'Brown123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('82', 'Carla', 'Kain', 'CarlaKain@gmail.com', 'Kain123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('83', 'Sharmaine', 'Faust', 'SharmaineFaust@gmail.com', 'Faust123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('84', 'Ernie', 'Kelly', 'ErnieKelly@gmail.com', 'Kelly123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('85', 'Estella', 'Bradley', 'EstellaBradley@gmail.com', 'Bradley123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('86', 'David', 'Smith', 'DavidSmith@gmail.com', 'Smith123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('87', 'Kimberly', 'Messersmith', 'KimberlyMessersmith@gmail.com', 'Messersmith123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('88', 'Billy', 'Williams', 'BillyWilliams@gmail.com', 'Williams123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('89', 'Patricia', 'Jackson', 'PatriciaJackson@gmail.com', 'Jackson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('90', 'Mary', 'Strong', 'MaryStrong@gmail.com', 'Strong123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('91', 'Jonathan', 'Jones', 'JonathanJones@gmail.com', 'Jones123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('92', 'Delia', 'Current', 'DeliaCurrent@gmail.com', 'Current123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('93', 'Lloyd', 'Wilkes', 'LloydWilkes@gmail.com', 'Wilkes123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('94', 'Dana', 'Harty', 'DanaHarty@gmail.com', 'Harty123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('95', 'Lori', 'Tieng', 'LoriTieng@gmail.com', 'Tieng123');

 $INSERT\ INTO\ `twitter\_database`.`user\_table`\ (`user\_id`,\ `name`,\ `lastname`,\ `email`,\ `password`)\ VALUES\ ('96',\ 'Alejandro',\ 'Guadagno',\ 'AlejandroGuadagno@gmail.com',\ 'Guadagno123');$ 

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('97', 'Briana', 'Rauch', 'BrianaRauch@gmail.com', 'Rauch123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('98', 'Joseph', 'Gonzalez', 'JosephGonzalez@gmail.com', 'Gonzalez123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('99', 'David', 'Gutierrez', 'DavidGutierrez@gmail.com', 'Gutierrez123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('100', 'Jennifer', 'Ford', 'JenniferFord@gmail.com', 'Ford123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('101', 'Gloria', 'Wright', 'GloriaWright@gmail.com', 'Wright123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('102', 'Jeffrey', 'Flint', 'JeffreyFlint@gmail.com', 'Flint123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('103', 'Gerald', 'Voyer', 'GeraldVoyer@gmail.com', 'Voyer123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('104', 'Paul', 'Riley', 'PaulRiley@gmail.com', 'Riley123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('105', 'Devin', 'Fisher', 'DevinFisher@gmail.com', 'Fisher123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('106', 'Laura', 'Mclean', 'LauraMclean@gmail.com', 'Mclean123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('107', 'Donna', 'Lorentz', 'DonnaLorentz@gmail.com', 'Lorentz123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('108', 'Willie', 'Smallidge', 'WillieSmallidge@gmail.com', 'Smallidge123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('109', 'Gary', 'Mills', 'GaryMills@gmail.com', 'Mills123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('110', 'Raquel', 'Pacheco', 'RaquelPacheco@gmail.com', 'Pacheco123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('111', 'Randall', 'Rodgers', 'RandallRodgers@gmail.com', 'Rodgers123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('112', 'Sean', 'Hudson', 'SeanHudson@gmail.com', 'Hudson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('113', 'Jose', 'Olson', 'JoseOlson@gmail.com', 'Olson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('114', 'John', 'Schafer', 'JohnSchafer@gmail.com', 'Schafer123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('115', 'Hoa', 'Sajovic', 'HoaSajovic@gmail.com', 'Sajovic123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('116', 'Teresa', 'Pearson', 'TeresaPearson@gmail.com', 'Pearson123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('117', 'Teresa', 'Espinoza', 'TeresaEspinoza@gmail.com', 'Espinoza123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('118', 'Margaret', 'Fadden', 'MargaretFadden@gmail.com', 'Fadden123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('119', 'Brittany', 'Crayton', 'BrittanyCrayton@gmail.com', 'Crayton123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('120', 'Barry', 'Wilt', 'BarryWilt@gmail.com', 'Wilt123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('121', 'Patricia', 'Cahall', 'PatriciaCahall@gmail.com', 'Cahall123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('122', 'Leon', 'Mcdonald', 'LeonMcdonald@gmail.com', 'Mcdonald123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('123', 'George', 'Peoples', 'GeorgePeoples@gmail.com', 'Peoples123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('124', 'Sandra', 'Butler', 'SandraButler@gmail.com', 'Butler123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('125', 'Marvin', 'Stracener', 'MarvinStracener@gmail.com', 'Stracener123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('126', 'Pamela', 'Beller', 'PamelaBeller@gmail.com', 'Beller123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('127', 'Myrtle', 'Smith', 'MyrtleSmith@gmail.com', 'Smith123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('128', 'Eric', 'Hatfield', 'EricHatfield@gmail.com', 'Hatfield123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('129', 'Frank', 'Soriano', 'FrankSoriano@gmail.com', 'Soriano123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('130', 'Randy', 'Rogers', 'RandyRogers@gmail.com', 'Rogers123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('131', 'Sylvia', 'Tapp', 'SylviaTapp@gmail.com', 'Tapp123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('132', 'Olga', 'Cato', 'OlgaCato@gmail.com', 'Cato123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('133', 'Janie', 'Daggett', 'JanieDaggett@gmail.com', 'Daggett123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('134', 'Paul', 'Chilton', 'PaulChilton@gmail.com', 'Chilton123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('135', 'Dennis', 'Numbers', 'DennisNumbers@gmail.com', 'Numbers123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('136', 'Angelina', 'Castellana', 'AngelinaCastellana@gmail.com', 'Castellana123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('137', 'Beverly', 'Marcum', 'BeverlyMarcum@gmail.com', 'Marcum123');

```
INSERT INTO `twitter_database`.`user_table` (`user_id`, `name`, `lastname`, `email`, `password`) VALUES ('138', 'lnez', 'Kapper', 'lnezKapper@gmail.com', 'Kapper123');
```

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('139', 'Jesse', 'Barnett', 'JesseBarnett@gmail.com', 'Barnett123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('140', 'Deborah', 'Kelley', 'DeborahKelley@gmail.com', 'Kelley123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('141', 'Josie', 'Reynolds', 'JosieReynolds@gmail.com', 'Reynolds123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('142', 'Jodi', 'Tanner', 'JodiTanner@gmail.com', 'Tanner123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('143', 'Nancy', 'Casey', 'NancyCasey@gmail.com', 'Casey123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('144', 'Timothy', 'Terry', 'TimothyTerry@gmail.com', 'Terry123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('145', 'Carla', 'Wheeler', 'CarlaWheeler@gmail.com', 'Wheeler123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('146', 'Seth', 'Stokes', 'SethStokes@gmail.com', 'Stokes123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('147', 'Joseph', 'Bridges', 'JosephBridges@gmail.com', 'Bridges123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('148', 'Sharon', 'Haynes', 'SharonHaynes@gmail.com', 'Haynes123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('149', 'Donna', 'Cox', 'DonnaCox@gmail.com', 'Cox123');

INSERT INTO `twitter\_database`.`user\_table` (`user\_id`, `name`, `lastname`, `email`, `password`) VALUES ('150', 'Mona', 'Adam', 'MonaAdam@gmail.com', 'Adam123');

insert into `twitter\_database`.`followers\_table` values (1,'Srividya','polneni','sri@gmail.com','Momdad@123');

insert into `twitter\_database`.`followers\_table`values (2,'Vyshu','polneni','vyshu@gmail.com','Mom@143');

insert into 'twitter\_database'. 'followers\_table' values ('3', 'kiran', 'kammadu', 'kiran@gmail.com', 'pass1');

insert into `twitter database`.`followers table` values ('4','vishnu','karmin','vishnu@gmail.com','pass2');

insert into `twitter\_database`.`followers\_table` values ('5','riyaz','jammi','riyaz@gmail.com','pass3');

```
insert into `twitter database`.`followers table` values ('6','dhatri','funny','dhatri@gmail.com','pass4');
insert into `twitter_database`.`followers_table` values ('7','sneha','galli','sneha@gmail.com','pass5');
insert into `twitter_database`.`followers_table` values ('8','varun','oman','varun@gmail.com','pass6');
insert into `twitter_database`.`followers_table` values ('9','sri','kothapally','sri@gmail.com','pass7');
insert into `twitter_database`.`followers_table` values ('10','farin','kanchi','farin@gmail.com','pass8');
insert into 'twitter_database'. 'followers_table' values
('11','kranthi','banchu','kranthi@gmail.com','pass9');
insert into 'twitter_database'. 'followers_table' values
('12', 'kinnu', 'karmin', 'kinnu@gmail.com', 'pass10');
insert into `twitter database`.`followers table` values ('13','sashi','vizag','sashi@gmail.com','pass11');
insert into 'twitter database'. 'followers table' values
('14','vashi','hyderabad','vashigmail.com','pass12');
insert into `twitter_database`.`followers_table` values
('15', 'kushi', 'warangal', 'kushi@gmail.com', 'pass13');
insert into `twitter_database`.`followers_table` values ('16','srinu','singal','srinu@gmail.com','pass14');
insert into 'twitter_database'. 'followers_table' values
('17','ramarao','burnal','ramarao@gmail.com','pass15');
insert into 'twitter database'. 'followers table' values
('18','venkatrao','firnal','venkatrao@gmail.com','pass16');
insert into 'twitter database'. 'followers table' values
('19','chengal','girnal','chengal@gmail.com','pass17');
insert into 'twitter_database'.'followers_table' values
('20','rajesh','kernal','rajesh@gmail.com','pass18');
insert into `twitter_database`.`followers_table` values
('21','syed','dharmaram','syed@gmail.com','pass19');
insert into `twitter_database`.`followers_table` values ('22','kinnu','verifal','kinnu@gmail.com','pass20');
insert into `twitter_database`.`followers_table` values
('23','chitti','mariyal','chitti@gmail.com','pass21');
insert into `twitter database`.`followers table` values ('24','baby','gariyal','baby@gmail.com','pass22');
insert into 'twitter database'. 'followers table' values
('25', 'kutti', 'dhuniyal', 'kutti@gmail.com', 'pass23');
insert into 'twitter database'. 'followers table' values
('26','gundu','phonial','gundu@gmail.com','pass24');
```

```
insert into 'twitter database'. 'followers table' values
('27','banda','cheniyal','banda@gmail.com','pass25');
insert into `twitter_database`.`followers_table` values ('28','anu','varnial','anu@gmail.com','pass25');
insert into `twitter database`.`followers table` values ('29','ravi','memphial','ravi@gmail.com','pass26');
insert into `twitter database`. `followers table` values ('30', 'akhil', 'chunial', 'akhil@gmail.com', 'pass27');
insert into 'twitter database'. 'followers table' values
('31','shainu','chickiyal','shainu@gmail.com','pass28');
insert into 'twitter database'. 'followers table' values
('32','chinni','manial','chinni@gmail.com','pass29');
insert into 'twitter database'. 'followers table' values
('33','punnu','dunial','punnu@gmail.com','pass30');
insert into 'twitter_database'. 'followers_table' values
('34', 'kinnur', 'cheriyal', 'kinnur@gmail.com', 'pass31');
insert into 'twitter_database'. 'followers_table' values
('35','banda','kominal','banda@gmail.com','pass32');
insert into `twitter_database`.`followers_table` values ('36','chelli','hernial','chelli@gmail.com','pass33');
insert into `twitter_database`.`followers_table` values ('37','sakiya','ijinal','sakiya@gmail.com','pass34');
insert into 'twitter database'. 'followers table' values
('38','varyia','marignal','variya@gmail.com','pass35');
insert into 'twitter database'. 'followers table' values
('39', 'gariya', 'dornial', 'gariya@gmail.com', 'pass36');
insert into 'twitter_database'. 'followers_table' values
('40','cheruvu','umbinal','cheruvu@gmail.com','pass37');
insert into 'twitter database'. 'followers table' values
('41','baruvu','chiginal','baruvu@gmail.com','pass38');
insert into `twitter_database`.`followers_table` values
('42','komala','maphinal','komala@gmail.com','pass39');
insert into 'twitter database'. 'followers table' values
('43','vimala','farinal','vimala@gmail.com','pass40');
insert into 'twitter_database'. 'followers_table' values
('44','nyruthi','aginal','nyruthi@gmail.com','pass41');
insert into 'twitter database'. 'followers table' values
('45','prakruthi','karinal','prakruthi@gmail.com','pass42');
```

```
insert into 'twitter database'. 'followers table' values
('46','chanluthi','hernial','chanluthi@gmail.com','pass43');
insert into 'twitter_database'. 'followers_table' values
('47', 'gamluthi', 'abunal', 'gamluthi@gmail.com', 'pass44');
insert into 'twitter database'. 'followers table' values
('48', 'karluthi', 'eginal', 'karluthi@gmail.com', 'pass45');
insert into `twitter_database`.`followers_table` values
('49','jailuthi','duginal','jailuthi@gmail.com','pass46');
insert into 'twitter database'. 'followers table' values
('50', 'alnubhi', 'alunum', 'alnubhi@gmail.com', 'pass47');
##insert into `twitter_database`. `feeds_table` values ('1',"Don't tell people your plans",'1'),
insert into `twitter_database`. `feeds_table` values('1', "Stay foolish to stay ",'25');
insert into `twitter database`.`feeds table` values('2',"We can do anything we want",'19');
insert into 'twitter database'. 'feeds table' values ('3', "Stay foolish to stay sane", '41');
insert into `twitter database`.`feeds table` values ('4',"When nothing goes right, go left",'43');
insert into `twitter_database`.`feeds_table` values('5',"Try Again. Fail again. Fail better",'41');
insert into `twitter database`.`feeds table` values('6',"Impossible is for the unwilling",'39');
insert into `twitter_database`.`feeds_table` values('7',"Once you choose hope, anything's possible", '37'
);
insert into `twitter_database`.`feeds_table` values('8',"I can and I will",'35');
insert into `twitter database`. `feeds table` values('9',"Take the risk or lose the chance", '33');
insert into `twitter_database`.`feeds_table` values('10',"There is no saint without a past",'31');
insert into `twitter_database`.`feeds_table` values('11', "Good things happen to those who hustle", '29');
insert into `twitter_database`.`feeds_table` values('12',"Solitary trees",'27');
insert into `twitter_database`.`feeds_table` values('13',"Go forth on your path",'25');
insert into 'twitter_database'. 'feeds_table' values('14', "The bird a nest,", '23');
insert into `twitter_database`.`feeds_table` values('15',"He who is brave is free",'21');
insert into 'twitter_database'. 'feeds_table' values('16', "Prove them wrong", '19');
insert into 'twitter database'. 'feeds table' values('17', "The fastest road to meaning", '17');
insert into 'twitter_database'. 'feeds_table' values('18',"No guts, no story",'15');
```

```
insert into 'twitter database'. 'feeds table' values('19', "Screw it, let's do it", '13');
insert into `twitter database`.`feeds table` values('20',"Boldness be my friend",'11');
insert into 'twitter database'. 'feeds table' values('21', "My life is my message", '9');
insert into 'twitter database'. 'feeds table' values('22', "Keep going", '7');
insert into `twitter_database`.`feeds_table` values('23',"Dream big",'3');
insert into `twitter_database`.`feeds_table` values('24',"Dream big",'1');
insert into 'twitter database'. 'feeds table' values('25', "Boldness be my friend", '2');
insert into `twitter_database`.`feeds_table` values('26',"Screw it, let's do it",'4');
insert into 'twitter_database'. 'feeds_table' values('27', "Boldness be my friend", '6');
insert into `twitter_database`.`feeds_table` values('28',"My life is my message",'8');
insert into `twitter_database`.`feeds_table` values('29',"brave is free",'10');
insert into `twitter_database`.`feeds_table` values('30',"I wasn't unable to enjoy ",'12');
insert into `twitter_database`.`feeds_table` values('31',"In a way.",'14');
insert into `twitter_database`.`feeds_table` values('32',"The more ",'16');
insert into `twitter_database`.`feeds_table` values('33',"Eventually, I started my own website ",'18');
insert into `twitter_database`.`feeds_table` values('34',"And so the adventure begins",'20');
insert into `twitter_database`.`feeds_table` values('35',"If you want it, work for it",'22');
insert into `twitter_database`. `feeds_table` values('36',"And so the adventure begins",'24');
insert into `twitter_database`.`feeds_table` values('37',"Grow through what you go through",'26');
insert into `twitter_database`.`feeds_table` values('38',"Do it with passion or not at all",'28');
insert into `twitter_database`.`feeds_table` values('39',"Forget about style; worry about results",'30');
insert into `twitter database`. `feeds table` values('40', "Success is the child of audacity", '32');
insert into `twitter database`.`feeds table` values('41',"Whatever you do, do with all your might",'34');
insert into `twitter database`.`feeds table` values('43',"We are twice armed if we fight with faith",'36');
insert into `twitter_database`.`feeds_table` values('44',"Be faithful ",'38');
insert into 'twitter database'. 'feeds table' values('45', "Let him do", '40');
insert into `twitter_database`.`feeds_table` values('46',"Persistence guarantees ",'42');
insert into `twitter_database`.`feeds_table` values('47',"The wisest mind has done",'44');
insert into `twitter_database`.`feeds_table` values('48',"Fall seven times, stand up eight",'46');
```

```
insert into `twitter_database`.`feeds_table` values('49',"Seek the seeker",'48');
insert into 'twitter_database'. 'feeds_table' values('50', "Silence is an answer too", '50');
insert into `twitter_database`.`feeds_table` values('51',"Every wall is a door",'51');
insert into `twitter_database`.`retweets_table` values('1','2','1');
insert into `twitter_database`.`retweets_table` values('2','3','5');
insert into `twitter_database`.`retweets_table` values('3','5','7');
insert into `twitter_database`.`retweets_table` values('4','7','9');
insert into `twitter_database`.`retweets_table` values('5','9','11');
insert into `twitter_database`. `retweets_table` values('6','11','13');
insert into `twitter_database`.`retweets_table` values('7','13','15');
insert into 'twitter database'. 'retweets table' values('8','1','17');
insert into `twitter_database`.`retweets_table` values('9','17','19');
insert into `twitter_database`.`retweets_table` values('10','19','21');
insert into `twitter_database`.`retweets_table` values('11','21','23');
insert into `twitter_database`.`retweets_table` values('12','23','25');
insert into `twitter_database`.`retweets_table` values('13','25','27');
insert into `twitter_database`.`retweets_table` values('14','27','29');
insert into 'twitter database'. 'retweets table' values('15','29','31');
insert into 'twitter_database'.'retweets_table' values('16','31','33');
insert into 'twitter_database'.'retweets_table' values('17','33','35');
insert into 'twitter_database'.'retweets_table' values('18','25','27');
insert into `twitter_database`.`retweets_table` values('19','27','29');
insert into `twitter_database`.`retweets_table` values('20','29','31');
insert into `twitter_database`.`retweets_table` values('21','31','33');
insert into `twitter_database`.`retweets_table` values('22','35','37');
insert into `twitter_database`.`retweets_table` values('23','37','39');
insert into `twitter_database`.`retweets_table` values('24','39','41');
insert into 'twitter database'. 'retweets table' values('25','41','43');
```

```
insert into `twitter_database`.`retweets_table` values('26','43','45');
insert into 'twitter_database'.'retweets_table' values('27','45','47');
insert into `twitter_database`.`retweets_table` values('28','47','49');
insert into `twitter_database`.`retweets_table` values('29','49','51');
insert into `twitter_database`.`retweets_table` values('30','2','53');
insert into `twitter_database`. `retweets_table` values('31','4','55');
insert into `twitter_database`.`retweets_table` values('32','6','57');
insert into 'twitter database'. 'retweets table' values('33','8','59');
insert into 'twitter database'. 'retweets table' values('34','10','61');
insert into `twitter_database`.`retweets_table` values('35','12','63');
insert into `twitter_database`.`retweets_table` values('36','14','65');
insert into 'twitter_database'.'retweets_table' values('37','16','67');
insert into 'twitter_database'.'retweets_table' values('38','18','69');
insert into `twitter_database`.`retweets_table` values('39','20','71');
insert into 'twitter_database'.'retweets_table' values('40','22','73');
insert into 'twitter_database'.'retweets_table' values('41','24','75');
insert into `twitter_database`.`retweets_table` values('42','26','77');
insert into 'twitter_database'.'retweets_table' values('44','28','79');
insert into 'twitter_database'.'retweets_table' values('45','30','81');
insert into 'twitter_database'.'retweets_table' values('46','32','83');
insert into `twitter_database`.`retweets_table` values('47','34','85');
insert into 'twitter_database'.'retweets_table' values('48','36','87');
insert into 'twitter_database'.'retweets_table' values('49','38','89');
insert into `twitter_database`.`retweets_table` values('50','40','91');
CREATE TABLE `twitter_database`.`comments_table` (
`Comment_id` INT NOT NULL,
`Comment_content` LONGTEXT NULL,
`Feed_id` INT NOT NULL,
```

```
'User id' INT NOT NULL,
PRIMARY KEY ('Comment_id'),
FOREIGN KEY (User_id) REFERENCES user_table(user_id),
FOREIGN KEY (Feed_id) REFERENCES feeds_table(Feed_id));
insert into 'twitter_database'.'comments_table' values('1','Good work','1','2');
insert into `twitter_database`.`comments_table` values('2','Sorry!Bad work','3','4');
insert into `twitter_database`.`comments_table` values('3','Good work','5','6');
insert into `twitter_database`.`comments_table` values('4','Sorry!Bad work','7','8');
insert into 'twitter_database'.'comments_table' values('5','Good work','9','10');
insert into `twitter_database`.`comments_table` values('6','Sorry!Bad work','11','12');
insert into 'twitter_database'. 'comments_table' values('7', 'Good work', '13', '14');
insert into `twitter_database`.`comments_table` values('8','Sorry!Bad work','15','16');
insert into 'twitter_database'. 'comments_table' values('9', 'Good work', '17', '18');
insert into `twitter_database`. `comments_table` values('10', 'Sorry!Bad work', '18', '19');
insert into 'twitter database'. 'comments table' values('11', 'Sorry!Bad work', '19', '20');
insert into `twitter_database`.`comments_table` values('12','Good work','21','22');
insert into `twitter_database`.`comments_table` values('13','Sorry!Bad work','23','24');
insert into 'twitter database'. 'comments table' values('14','Good work','25','26');
insert into 'twitter database'. 'comments table' values('15','Sorry!Bad work','27','28');
insert into 'twitter database'.'comments table' values('16','Good work','29','30');
insert into 'twitter database'. 'comments table' values('17', 'Sorry!Bad work', '31', '32');
insert into 'twitter_database'. 'comments_table' values('18','Good work','33','34');
insert into `twitter_database`. `comments_table` values('19', 'Sorry!Bad work', '35', '36');
insert into 'twitter_database'.'comments_table' values('20','Good work','37','38');
insert into 'twitter_database'. 'comments_table' values('21', 'Sorry!Bad work', '39', '40');
insert into `twitter_database`.`comments_table` values('22','Good work','41','42');
insert into `twitter_database`.`comments_table` values('23','Sorry!Bad work','43','44');
insert into 'twitter_database'. 'comments_table' values('24', 'Good work', '45', '46');
```

```
insert into `twitter_database`.`comments_table` values('25','Sorry!Bad work','47','48');
insert into `twitter_database`.`comments_table` values('26','Good work','48','49');
insert into `twitter_database`.`comments_table` values('27','Sorry!Bad work','50','51');
insert into 'twitter_database'.'comments_table' values('28','Good work','2','53');
insert into `twitter_database`.`comments_table` values('29','Sorry!Bad work','4','55');
insert into 'twitter_database'.'comments_table' values('30','Good work','6','57');
insert into `twitter_database`.`comments_table` values('31','Sorry!Bad work','8','59');
insert into 'twitter database'. 'comments table' values('32','Sorry!Bad work','10','61');
insert into 'twitter database'. 'comments table' values('33','Good work','12','63');
insert into 'twitter database'. 'comments table' values('34','Sorry!Bad work','14','65');
insert into `twitter_database`.`comments_table` values('35','Good work','16','67');
insert into `twitter_database`. `comments_table` values('36','Sorry!Bad work','18','69');
insert into `twitter_database`.`comments_table` values('37','Good work','20','71');
insert into `twitter_database`. `comments_table` values('38', 'Sorry!Bad work', '21', '73');
insert into 'twitter_database'. 'comments_table' values('39', 'Good work', '22', '75');
insert into `twitter_database`. `comments_table` values('40', 'Sorry!Bad work', '24', '77');
insert into 'twitter_database'. 'comments_table' values('41', 'Good work', '26', '79');
insert into `twitter_database`. `comments_table` values('41','Sorry!Bad work','28','81');
insert into 'twitter database'.'comments table' values('42','Good work','30','83');
insert into `twitter_database`. `comments_table` values('43','Sorry!Bad work','32','85');
insert into `twitter_database`.`comments_table` values('44','Good work','34','87');
insert into `twitter_database`.`comments_table` values('45','Sorry!Bad work','36','89');
insert into 'twitter database'.'comments table' values('46','Good work','38','91');
insert into `twitter_database`.`comments_table` values('47','Sorry!Bad work','40','93');
insert into `twitter_database`.`comments_table` values('48','Good work','42','95');
insert into `twitter_database`.`comments_table` values('49','Sorry!Bad work','44','97');
insert into 'twitter_database'. 'comments_table' values('50', 'Good work', '46', '99');
```

#### Neo4J

The below code helps you to load data easily in to the neo4j

LOAD CSV WITH HEADERS FROM 'file:///datatwitter.csv' AS row

WITH toInteger(row.user\_id) AS user\_id, row.name AS name, row.lastname AS lastname, row.password AS password

RETURN user\_id, name, lastname, password LIMIT 100;

LOAD CSV WITH HEADERS FROM 'file:///datatwitter.csv' AS row

WITH toInteger(row.user\_id) AS user\_id, row.name AS name, row.lastname AS lastname, row.password AS password

MERGE (p:user\_table {user\_id: user\_id})

SET p.name = name, p.lastname = lastname, p.password = password

MATCH (p:user\_table) RETURN p LIMIT 150;

# **Neo4J Cypher Queries: (directly without using CSV)**

CREATE (user0:User{

user\_id:'5006',name:'Diane',last\_name:'Peaslee',email:'mDNzDJyYuxgmail.com',password:'uUtadcvvPJL pXJR' })

CREATE (follower0:Follower{

user\_id:'5006',name:'Betty',last\_name:'Lawson',email:'OgpMyuyTtsgmail.com',password:'OgKNxBfRhQb RXae' })CREATE (user1:User{

user\_id:'4801',name:'Marcus',last\_name:'Fitch',email:'QcatspoJqCgmail.com',password:'GyexuemynAxN nNf' })

CREATE (follower1:Follower{

user\_id:'4801',name:'Audra',last\_name:'King',email:'rTmzThxiRfgmail.com',password:'diKepimEmXwWH fW' })CREATE (user2:User{

user\_id:'4355',name:'Heriberto',last\_name:'Lukas',email:'fscbIQEvErgmail.com',password:'RyydPNZRCk QwDYF' })

CREATE (follower2:Follower{

user\_id:'4355',name:'Bradley',last\_name:'Reyes',email:'CtaZJomkkegmail.com',password:'coRUMyXeVAFnULW' })CREATE (user3:User{

user\_id:'9599',name:'Pearl',last\_name:'Thurman',email:'wOxlqzCbLqgmail.com',password:'PinujTbJebcX zzy' })

CREATE (follower3:Follower{

user\_id:'9599',name:'George',last\_name:'Beason',email:'AlGhNTewhKgmail.com',password:'eNXsQLCoT ZIGwaz' })CREATE (user4:User{

```
user id:'4026',name:'Timmy',last name:'Jensen',email:'TIFoQzeJNfgmail.com',password:'fZzwmWqXHuj
KENY' })
CREATE (follower4:Follower{
user id:'4026',name:'John',last name:'Aronow',email:'labwwjJrcigmail.com',password:'NMZROyLDXmPi
SMW' })CREATE (user5:User{
user id:'8285',name:'Dong',last name:'Carbone',email:'xqWMlromNngmail.com',password:'zECDFRZbL
Nngftk' })
CREATE (follower5:Follower{
user_id:'8285',name:'Violet',last_name:'Stewart',email:'QHeyWdYOVKgmail.com',password:'MRysmalV
VBJOxQt' })CREATE (user6:User{
user id:'1215',name:'Robert',last name:'Sanders',email:'eLdPxLShgYgmail.com',password:'wTtKppenuS
KKKMo' })
CREATE (follower6:Follower{
user id:'1215',name:'Samuel',last name:'Wiley',email:'nybAcRARLJgmail.com',password:'VNoBowWrmI
OoXha' })CREATE (user7:User{
user id:'2591',name:'Robert',last name:'Klein',email:'LxntLLuqvfgmail.com',password:'zykyqIhBSpowup
k' })
CREATE (follower7:Follower{
user id:'2591',name:'Deadra',last name:'Mashack',email:'cNSgPVozfTgmail.com',password:'mXsjgUxeDI
sApAP' })CREATE (user8:User{
user id:'2382',name:'Tom',last name:'Klein',email:'MfPOcNHyDugmail.com',password:'gtAUYBfFHrrCcD
z' })
CREATE (follower8:Follower{
user id:'2382',name:'Linda',last name:'Corp',email:'aqDMXYlxWzgmail.com',password:'dOCSThbrsOWN
ZhD' })CREATE (user9:User{
user id:'7225',name:'Levi',last name:'Dillman',email:'FuUIHESTEDgmail.com',password:'CivZOaTJiMzhv
ah' })
CREATE (follower9:Follower{
user id:'7225',name:'Karen',last name:'Ellis',email:'rjwioZcMwfgmail.com',password:'DJQjXHIrXYymAHf
' })CREATE (user10:User{
user_id:'7311',name:'Kermit',last_name:'Lapointe',email:'QXCZMAypFlgmail.com',password:'LSJWeVzDi
RorXMk' })
CREATE (follower10:Follower{
user_id:'7311',name:'Jose',last_name:'Alonzo',email:'YCzlgmfUohgmail.com',password:'ezhtNoxWOHkT
KBh' })CREATE (user11:User{
user id:'9956',name:'Jackie',last name:'Sargent',email:'CfvcfvnEkhgmail.com',password:'SkKhswrYNRaD
iTd' })
CREATE (follower11:Follower{
user id:'9956',name:'Stanley',last name:'Bilski',email:'GvMDoDzDUwgmail.com',password:'NSXhGQYTa
pCGkga' })CREATE (user12:User{
user_id:'3848',name:'Debra',last_name:'Harriss',email:'RubVTErTexgmail.com',password:'zujsvvPunbIUu
IR' })
CREATE (follower12:Follower{
user id:'3848',name:'Nanette',last name:'Moor',email:'RZCKIFhsNxgmail.com',password:'ZxZKBinJRFeXx
Kj' })CREATE (user13:User{
user id:'2864',name:'James',last name:'Glass',email:'lhJJwAzDAtgmail.com',password:'SiAAcFJhTSiMfvA
```

' })

CREATE (follower13:Follower{

user\_id:'2864',name:'Milford',last\_name:'Harris',email:'tKnTeJUzPSgmail.com',password:'bjtPOtidVQHT VqN' })CREATE (user14:User{

user\_id:'1623',name:'Deborah',last\_name:'Baker',email:'zQPHegJUhRgmail.com',password:'CiLIPUwOxfz qmle' })

CREATE (follower14:Follower{

user\_id:'1623',name:'Barry',last\_name:'Edwards',email:'sbDScyHIwOgmail.com',password:'iYxZWBUwxQ iceUQ' })CREATE (user15:User{

user\_id:'9859',name:'Joseph',last\_name:'Hawes',email:'BfJDMzUVywgmail.com',password:'kmHVNvrldn JxSJe' })

CREATE (follower15:Follower{

user\_id:'9859',name:'Greg',last\_name:'Schreckengost',email:'QzXvAqMNzugmail.com',password:'zWIUt dMvwQqanvf' })CREATE (user16:User{

user\_id:'9703',name:'Chris',last\_name:'Desmith',email:'vKLxztPRNkgmail.com',password:'uiOuwDCKGT WXhIQ' })

CREATE (follower16:Follower{

user\_id:'9703',name:'Jamie',last\_name:'Heim',email:'UxQpCxDdYdgmail.com',password:'PsIvJjCGeoOjrsi ' })CREATE (user17:User{

user\_id:'1185',name:'Anne',last\_name:'Walter',email:'SQONwloEjvgmail.com',password:'eNcshlOYCuxlV YD' })

CREATE (follower17:Follower{

user\_id:'1185',name:'Victoria',last\_name:'Saas',email:'ilpkdunpuVgmail.com',password:'eZsQUooSfwjcT Yj' })CREATE (user18:User{

user\_id:'4415',name:'Julio',last\_name:'Madson',email:'HHmnJpdfUEgmail.com',password:'PCiglswwaKcr SpH' })

CREATE (follower18:Follower{

user\_id:'4415',name:'Natalie',last\_name:'Armitage',email:'bllKnngrrZgmail.com',password:'kJdwKxOBIAkVHne' })CREATE (user19:User{

user\_id:'6766',name:'Berry',last\_name:'Breceda',email:'nrJIKevJGwgmail.com',password:'FYYIMfPeNSsnIqu' })

CREATE (follower19:Follower{

user\_id:'6766',name:'John',last\_name:'Smith',email:'kacwtrhGhUgmail.com',password:'wxJkmWObefcuz tA' })CREATE (user20:User{

user\_id:'5252',name:'William',last\_name:'Hill',email:'lxzmoKIpTogmail.com',password:'cFXswugXkCVUC Am' })

CREATE (follower20:Follower{

user\_id:'5252',name:'Cynthia',last\_name:'Cantella',email:'gfeMTfPQRMgmail.com',password:'klemMkxK XpljmRh' })CREATE (user21:User{

user\_id:'5091',name:'Marcelina',last\_name:'Evans',email:'lvVtFeozJjgmail.com',password:'QVAWOZVpq UpKYYc' })

CREATE (follower21:Follower{

user\_id:'5091',name:'Christopher',last\_name:'Flores',email:'qmYjqkYDYBgmail.com',password:'uuLVSrw YLJzYnvP' })CREATE (user22:User{

user\_id:'4996',name:'Carolyn',last\_name:'Burrows',email:'vezNgYZzdlgmail.com',password:'psOpZfVlyBJ hreS' })

CREATE (follower22:Follower{

user\_id:'4996',name:'Esther',last\_name:'Guzman',email:'nZEMTMrHIAgmail.com',password:'xAlCIVpvkt RsIZf' })CREATE (user23:User{

```
user_id:'6039',name:'Gary',last_name:'Pixley',email:'ukQyjuGTnqgmail.com',password:'PSyWfnGVKxgeH ge' })
```

CREATE (follower23:Follower{

user\_id:'6039',name:'Matthew',last\_name:'Gaines',email:'nxQLoeUcOlgmail.com',password:'zZUoNsGxs eOSaOp' })CREATE (user24:User{

user\_id:'4790',name:'Gene',last\_name:'Tanksley',email:'calePQMbHEgmail.com',password:'LkipXbPwRS PQAED' })

CREATE (follower24:Follower{

user\_id:'4790',name:'Tommy',last\_name:'Collins',email:'FSNKRHSIBygmail.com',password:'YuHkMSJTLlu ZJZV' })CREATE (user25:User{

user\_id:'5360',name:'Robert',last\_name:'Pearce',email:'zQzOTtSQqigmail.com',password:'DYXfDOMhLeczhxs' })

CREATE (follower25:Follower{

user\_id:'5360',name:'Lorrie',last\_name:'Connors',email:'FDXXniBmqJgmail.com',password:'YGpuiaFgBm Pxlxy' })CREATE (user26:User{

user\_id:'9978',name:'Evangelina',last\_name:'Fennel',email:'VpsillMgZigmail.com',password:'DzlbmZnaD MRVpLX' })

CREATE (follower26:Follower{

user\_id:'9978',name:'Arturo',last\_name:'Serge',email:'MMjtQhLdlygmail.com',password:'oathzmLUhwD KNfj' })CREATE (user27:User{

user\_id:'4162',name:'Julie',last\_name:'Smith',email:'qyCfsdKnkSgmail.com',password:'TKDHNVjUAGxTFbe' })

CREATE (follower27:Follower{

user\_id:'4162',name:'Jennifer',last\_name:'Celestin',email:'GQpaavxnKAgmail.com',password:'WSPeFHL mwROPRxn' })CREATE (user28:User{

user\_id:'6142',name:'Edwina',last\_name:'Lawrence',email:'aTQYCPNklWgmail.com',password:'yyGbpsNl wAGhRyo' })

CREATE (follower28:Follower{

user\_id:'6142',name:'Margarita',last\_name:'Skinner',email:'JSjWeZmWkEgmail.com',password:'ycQMoYrYkuzaJyu' })CREATE (user29:User{

user\_id:'6047',name:'Scott',last\_name:'Wilson',email:'xcRBsUiwUpgmail.com',password:'HJyYmptHejJyqkg' })

CREATE (follower29:Follower{

user\_id:'6047',name:'Lillie',last\_name:'Thatcher',email:'FBquZijlXhgmail.com',password:'peYYXoFsVffqa HF' })CREATE (user30:User{

user\_id:'9742',name:'Carroll',last\_name:'Villegas',email:'JjLePYuhQxgmail.com',password:'enRfalrZnHMrrba' })

CREATE (follower30:Follower{

user\_id:'9742',name:'Lisa',last\_name:'Lowery',email:'nlzAXIzFHSgmail.com',password:'OnPOIfyiGtcTwQ B' })CREATE (user31:User{

user\_id:'5281',name:'Lula',last\_name:'Iverson',email:'BUyYWKjCtigmail.com',password:'LYFgsUFpqLcSfy V' })

CREATE (follower31:Follower{

user\_id:'5281',name:'Jesus',last\_name:'Marquardt',email:'SuwbQttMOagmail.com',password:'dnACKnZ qldQpHJQ' })CREATE (user32:User{

user\_id:'3879',name:'Elizabeth',last\_name:'Arrington',email:'qMUilciSJRgmail.com',password:'DbumvKR EgXBMQEI' })

```
CREATE (follower32:Follower{
```

user\_id:'3879',name:'Melvin',last\_name:'Herrera',email:'qbHDyFgfDigmail.com',password:'tKhjoXlLNBTkbGg' })CREATE (user33:User{

user\_id:'5289',name:'Carmen',last\_name:'Bodrick',email:'yJafPsJWqWgmail.com',password:'UgxrqUcfjrB JDsh' })

CREATE (follower33:Follower{

user\_id:'5289',name:'Nancy',last\_name:'Dunlop',email:'PqllLNtyrlgmail.com',password:'jAFTlpJnRxfoAK M' })CREATE (user34:User{

user\_id:'7340',name:'Barbara',last\_name:'Walters',email:'CYzwCjxoFfgmail.com',password:'FnZhulZtrHk EUxr' })

CREATE (follower34:Follower{

user\_id:'7340',name:'Kelly',last\_name:'Ledford',email:'nfLlnRgEPogmail.com',password:'LUqCPLGLbVQS rDR' })CREATE (user35:User{

user\_id:'6560',name:'Dorothy',last\_name:'Buckley',email:'bEPVFgxdwLgmail.com',password:'dXSVtqrlJIjf Yqu' })

CREATE (follower35:Follower{

user\_id:'6560',name:'Kimberly',last\_name:'Crook',email:'lksYcUAQVbgmail.com',password:'zKtFizHeKkIX PIL' })CREATE (user36:User{

user\_id:'1212',name:'William',last\_name:'Brown',email:'zsmzUYkFUEgmail.com',password:'FxBlNPNnVx CfbSq' })

CREATE (follower36:Follower{

user\_id:'1212',name:'Caroline',last\_name:'Hamilton',email:'wWKxqKqwZugmail.com',password:'tPVfzsG lxeakwig' })CREATE (user37:User{

user\_id:'2718',name:'Willard',last\_name:'Sanford',email:'ZfbtGxFrRmgmail.com',password:'WbwUKJHuTaHPnQG' })

CREATE (follower37:Follower{

user\_id:'2718',name:'Lorena',last\_name:'Lehrman',email:'apRUmMQJlogmail.com',password:'CsgSVyhG WCcFuzM' })CREATE (user38:User{

user\_id:'5273',name:'Nancy',last\_name:'Holzer',email:'jBusSksidcgmail.com',password:'yiDNfmyydHlTN GL' })

CREATE (follower38:Follower{

user\_id:'5273',name:'Rebecca',last\_name:'Feasel',email:'aLJYDdwdTjgmail.com',password:'FScDrgZlgnlR emw' })CREATE (user39:User{

user\_id:'6458',name:'Leroy',last\_name:'Fox',email:'aHiJCNEKJhgmail.com',password:'TjbJmVoPjxGRXqe' })

CREATE (follower39:Follower{

user\_id:'6458',name:'Robert',last\_name:'Manchester',email:'NUowzTmvshgmail.com',password:'CpMd WVdiTXWohWk' })CREATE (user40:User{

user\_id:'5968',name:'Kevin',last\_name:'Horton',email:'ROxzcylLdygmail.com',password:'zapKqaJjawcLUZ N' })

CREATE (follower40:Follower{

user\_id:'5968',name:'Lela',last\_name:'Ludlow',email:'GbqXfwPeQMgmail.com',password:'OjNWcWIwPt SvPNi' })CREATE (user41:User{

user\_id:'5569',name:'Brian',last\_name:'Tedder',email:'hoGDrmkFhugmail.com',password:'YIpvyzgLUKw DCBS' })

CREATE (follower41:Follower{

user\_id:'5569',name:'Jack',last\_name:'Rogers',email:'DLaMslKUYegmail.com',password:'YpNceMioJwxrH EV' })CREATE (user42:User{

```
user id:'6611',name:'Kevin',last name:'Baumgartner',email:'wwKTauVLkxgmail.com',password:'RIYADtz
CLeCQAhs' })
CREATE (follower42:Follower{
user id:'6611',name:'Jerry',last name:'Casanova',email:'NhHnwLMjyugmail.com',password:'RFnKyMNH
UVtMltL' })CREATE (user43:User{
user id:'5126',name:'Curtis',last name:'Smith',email:'YbbizCeFoogmail.com',password:'bjMoKaYMDjwn
ArO' })
CREATE (follower43:Follower{
user_id:'5126',name:'Philip',last_name:'Severino',email:'zulwaFkvsugmail.com',password:'xyBEIErwEjxs
mZs' })CREATE (user44:User{
user id:'8431',name:'Beverly',last name:'Christie',email:'DuJayUVXmkgmail.com',password:'ZNBuHhDA
bwYYamL' })
CREATE (follower44:Follower{
user id:'8431',name:'Mary',last name:'Thacker',email:'ZhaoytliUQgmail.com',password:'DBfzqnyIYEhW
VpO' })CREATE (user45:User{
user_id:'4303',name:'Beulah',last_name:'Mulligan',email:'ohWgobCPsKgmail.com',password:'lDCiCSIdVX
pbqht' })
CREATE (follower45:Follower{
user id:'4303',name:'Edward',last name:'Martin',email:'HNBDgMtOrlgmail.com',password:'tISAzBgzEcR
ASmu' })CREATE (user46:User{
user id:'7326',name:'Zachary',last name:'Council',email:'vKZuPladzggmail.com',password:'eiejybLZTcnKl
dD' })
CREATE (follower46:Follower{
user id:'7326',name:'Christopher',last name:'Billups',email:'LhgYyaxYFFgmail.com',password:'wDOAxnn
GVPprmBK' })CREATE (user47:User{
user id:'2484',name:'Anna',last name:'Caberto',email:'KkrfZJYwEpgmail.com',password:'STwFdnmzOFJ
PMKA' })
CREATE (follower47:Follower{
user id:'2484',name:'Nancy',last name:'Mayer',email:'slCtyUAogggmail.com',password:'trSgTDZPPWoP
cQj' })CREATE (user48:User{
user_id:'8515',name:'Richard',last_name:'Cronk',email:'aqUEtWqgWwgmail.com',password:'vBVFXdOg
WuVkXSS' })
CREATE (follower48:Follower{
user_id:'8515',name:'Martha',last_name:'Hukill',email:'lCMAvjMGhtgmail.com',password:'bKzRMSzLUP
MaQhl' })CREATE (user49:User{
user id:'8175',name:'Florence',last name:'Bower',email:'knBdggPNfJgmail.com',password:'QMIYKifnFI
WTlzs' })
CREATE (follower49:Follower{
user id:'8175',name:'Robert',last name:'Nelson',email:'MoZtPfduEzgmail.com',password:'nJsqeZPgHW
QYtxp' })
CREATE (follower0) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED_BY]->(follower0)CREATE (follower1) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower1)CREATE (follower2) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower2)CREATE (follower3) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower3)CREATE (follower4) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower4)CREATE (follower5) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower5)CREATE (follower6) -[:FOLLOWS]->(user0)
```

```
CREATE (user0) -[:FOLLOWED BY]->(follower6)CREATE (follower7) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower7)CREATE (follower8) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower8)CREATE (follower9) -[:FOLLOWS]->(user0)
CREATE (user0) -[:FOLLOWED BY]->(follower9)
CREATE (follower10) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED_BY]->(follower10)CREATE (follower11) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower11)CREATE (follower12) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED_BY]->(follower12)CREATE (follower13) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower13)CREATE (follower14) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower14)CREATE (follower15) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower15)CREATE (follower16) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower16)CREATE (follower17) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower17)CREATE (follower18) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED BY]->(follower18)CREATE (follower19) -[:FOLLOWS]->(user1)
CREATE (user1) -[:FOLLOWED_BY]->(follower19)
CREATE (feed0:Feed{ feed id:'5259',content:'ojxKxtGmmtwlaHXJxXda',user id:'6047' })
CREATE (user29) -[:HAS POSTED]->(feed0)CREATE (feed1:Feed{
feed_id:'3518',content:'JGfqgdBcztZmjXyXfBCX',user_id:'4801' })
CREATE (user1) -[:HAS POSTED]->(feed1)CREATE (feed2:Feed{
feed id:'2701',content:'FnhQPsVAwZulwXZpObZL',user id:'6611' })
CREATE (user42) -[:HAS_POSTED]->(feed2)CREATE (feed3:Feed{
feed id:'6409',content:'cUBfZwItZtJrZkugJzhm',user id:'8515' })
CREATE (user48) -[:HAS POSTED]->(feed3)CREATE(feed4:Feed{
feed id:'8081',content:'IjBMhXXqwVNsqfZKsIbp',user id:'7326' })
CREATE (user46) -[:HAS POSTED]->(feed4)CREATE (feed5:Feed{
feed_id:'6894',content:'sGIDgUWBRgDRcMYzGKGw',user_id:'9956' })
CREATE (user11) -[:HAS_POSTED]->(feed5)CREATE (feed6:Feed{
feed id:'8963',content:'czOWPOQGkVpTjDcinSCV',user id:'5252' })
CREATE (user20) -[:HAS POSTED]->(feed6)CREATE (feed7:Feed{
feed_id:'5309',content:'wBNRLougdUmDatAfPnTO',user_id:'4026' })
CREATE (user4) -[:HAS POSTED]->(feed7)CREATE (feed8:Feed{
feed id:'7462',content:'jsTKSnzQkqBFxqfgPYWS',user id:'9742' })
CREATE (user30) -[:HAS POSTED]->(feed8)CREATE (feed9:Feed{
feed id:'1463',content:'zRfltRkeFhSjayEoKtZQ',user id:'4801' })
CREATE (user1) -[:HAS POSTED]->(feed9)CREATE(feed10:Feed{
feed id:'3673',content:'UABwpEJXTnXakobfnyvY',user id:'3848' })
CREATE (user12) -[:HAS_POSTED]->(feed10)CREATE(feed11:Feed{
feed_id:'8699',content:'pSamTRDNkHGInxeMSVGe',user_id:'8431' })
CREATE (user44) -[:HAS_POSTED]->(feed11)CREATE (feed12:Feed{
feed id:'9451',content:'KYPchhgdNVHctaDQZROA',user id:'4355' })
CREATE (user2) -[:HAS_POSTED]->(feed12)CREATE (feed13:Feed{
feed id:'7792',content:'zGwfVodulXNGhjQZMDcl',user id:'2484' })
CREATE (user47) -[:HAS POSTED]->(feed13)CREATE (feed14:Feed{
feed id:'7781',content:'ABqfTCcZOBFsIOzBwPWa',user id:'9599' })
CREATE (user3) -[:HAS_POSTED]->(feed14)CREATE (feed15:Feed{
feed_id:'1600',content:'pGuigTbIOkuZFjtiOlYu',user_id:'1215' })
```

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CREATE (user6) -[:HAS POSTED]->(feed15)CREATE (feed16:Feed{
feed id: '2817', content: 'QJGfXqRJWcQpuJvJJtVq', user id: '1185' })
CREATE (user17) -[:HAS POSTED]->(feed16)CREATE (feed17:Feed{
feed id:'4329',content:'XRmOCJYKISIROEMpZNfw',user id:'4801' })
CREATE (user1) -[:HAS POSTED]->(feed17)CREATE (feed18:Feed{
feed_id:'2267',content:'mQvWGAiFUplYwOMePNkb',user_id:'9703' })
CREATE (user16) -[:HAS_POSTED]->(feed18)CREATE (feed19:Feed{
feed id:'6210',content:'yAOGNSlcAFUYdPGidtxD',user id:'4303' })
CREATE (user45) -[:HAS_POSTED]->(feed19)CREATE(feed20:Feed{
feed id:'4334',content:'YnBfyohadYwUYNnUnQhp',user id:'4355' })
CREATE (user2) -[:HAS POSTED]->(feed20)CREATE (feed21:Feed{
feed id:'7146',content:'diWYpLPANSgRPQombofw',user id:'7326'})
CREATE (user46) -[:HAS POSTED]->(feed21)CREATE (feed22:Feed{
feed id:'3191',content:'TiBJPRTcKVghNzlCKREW',user id:'3879' })
CREATE (user32) -[:HAS POSTED]->(feed22)CREATE(feed23:Feed{
feed id:'3563',content:'jJbEcESeVpWZPmADjKAQ',user id:'8175' })
CREATE (user49) -[:HAS_POSTED]->(feed23)CREATE (feed24:Feed{
feed_id:'7906',content:'XPOFhvOXOQSSFtlGPnoe',user_id:'9956'})
CREATE (user11) -[:HAS POSTED]->(feed24)CREATE (feed25:Feed{
feed_id:'5351',content:'qogXOtkJXGxlmACeTMPc',user_id:'5289' })
CREATE (user33) -[:HAS POSTED]->(feed25)CREATE (feed26:Feed{
feed id:'2616',content:'xkNUdXpGbVpoCmNsgzwl',user id:'2382' })
CREATE (user8) -[:HAS POSTED]->(feed26)CREATE (feed27:Feed{
feed id:'2189',content:'qCXsPBpBBBBOFnrVRIvC',user id:'1623' })
CREATE (user14) -[:HAS POSTED]->(feed27)CREATE(feed28:Feed{
feed id:'5592',content:'HaDSIJfiUvogQAthaqRY',user id:'9956' })
CREATE (user11) -[:HAS_POSTED]->(feed28)CREATE(feed29:Feed{
feed_id:'2798',content:'paftuHZxWEegIOMRcAhk',user_id:'7311' })
CREATE (user10) -[:HAS_POSTED]->(feed29)CREATE (feed30:Feed{
feed id:'1122',content:'NkaKJeeTpoRForIkpFVH',user id:'6039' })
CREATE (user23) -[:HAS POSTED]->(feed30)CREATE(feed31:Feed{
feed_id:'2908',content:'IdCjNDzYwyRvFakFmAsR',user_id:'8515' })
CREATE (user48) -[:HAS POSTED]->(feed31)CREATE(feed32:Feed{
feed id:'3669',content:'CtvVyhmChTPpQrbUStrB',user id:'4355' })
CREATE (user2) -[:HAS POSTED]->(feed32)CREATE (feed33:Feed{
feed id:'7105',content:'bfufGjOAgPaEDBLRDXaS',user id:'9742' })
CREATE (user30) -[:HAS POSTED]->(feed33)CREATE(feed34:Feed{
feed id:'9549',content:'LAzNAzmaHmviVsWRSzxC',user id:'9742' })
CREATE (user30) -[:HAS_POSTED]->(feed34)CREATE (feed35:Feed{
feed_id:'3498',content:'rieSnFiTtniQQNZKbgvj',user_id:'9978' })
CREATE (user26) -[:HAS_POSTED]->(feed35)CREATE(feed36:Feed{
feed id:'2796',content:'LztPCMsldNSakCvxHSWd',user id:'9956' })
CREATE (user11) -[:HAS_POSTED]->(feed36)CREATE(feed37:Feed{
feed id:'2237',content:'dihVsSBbagBHGAQledhS',user id:'7311' })
CREATE (user10) -[:HAS POSTED]->(feed37)CREATE(feed38:Feed{
feed id:'7068',content:'cACfiTNPnNcOBmoYlijg',user id:'6039' })
CREATE (user23) -[:HAS POSTED]->(feed38)CREATE(feed39:Feed{
feed_id:'7288',content:'mYlkBpMbQFErRhHchQAX',user_id:'4790' })
```

```
CREATE (user24) -[:HAS POSTED]->(feed39)CREATE(feed40:Feed{
feed id:'9916',content:'xppHZgHBVJCXYkJuxsEZ',user id:'8515' })
CREATE (user48) -[:HAS POSTED]->(feed40)CREATE(feed41:Feed{
feed id:'2938',content:'xKiSdrKcKacPCoiBFnGE',user id:'5273' })
CREATE (user38) -[:HAS POSTED]->(feed41)CREATE(feed42:Feed{
feed_id:'8174',content:'iISBFAmQJqdtRVdgdmOL',user_id:'4801' })
CREATE (user1) -[:HAS_POSTED]->(feed42)CREATE (feed43:Feed{
feed id:'6551',content:'OsqNbbdCDtXlHJXMuCWE',user id:'2484' })
CREATE (user47) -[:HAS_POSTED]->(feed43)CREATE (feed44:Feed{
feed id:'3405',content:'EgrRiUuSrajbcNLVQwxN',user id:'5126' })
CREATE (user43) -[:HAS POSTED]->(feed44)CREATE(feed45:Feed{
feed id:'1771',content:'VIAAfZHMjZhWVBaKKPXI',user id:'9956' })
CREATE (user11) -[:HAS POSTED]->(feed45)CREATE (feed46:Feed{
feed id:'9976',content:'tEvNzrPoxVuVAyuEvuYj',user id:'5252' })
CREATE (user20) -[:HAS POSTED]->(feed46)CREATE(feed47:Feed{
feed id:'8103',content:'TKJkJrkLRYUsDvqEDDtB',user id:'9978' })
CREATE (user26) -[:HAS_POSTED]->(feed47)CREATE(feed48:Feed{
feed_id:'6712',content:'CCZYvubrHEqDNsivjiUH',user_id:'4355' })
CREATE (user2) -[:HAS POSTED]->(feed48)CREATE (feed49:Feed{
feed_id:'3805',content:'rPeGWXkWOjqRSlaVibim',user_id:'5360' })
CREATE (user25) -[:HAS POSTED]->(feed49)
CREATE (comment0:Comment{
comment id:'6186',content:'KMyhyjrVBtEXOfUhGOJJ',feed id:'7781',user id:'1623' })
CREATE (user14) -[:HAS COMMENTED]->(comment0)
CREATE (feed14) -[:HAS COMMENT]->(comment0)CREATE (comment1:Comment{
comment id:'6995',content:'tcirbOtQFfOOdWrfAdhM',feed id:'8963',user id:'1215' })
CREATE (user6) -[:HAS_COMMENTED]->(comment1)
CREATE (feed6) -[:HAS_COMMENT]->(comment1)CREATE (comment2:Comment{
comment id:'8341',content:'MInSPgmdPQibhAzczwdG',feed id:'3405',user id:'8431' })
CREATE (user44) -[:HAS_COMMENTED]->(comment2)
CREATE (feed44) -[:HAS_COMMENT]->(comment2)CREATE (comment3:Comment{
comment id:'5769',content:'QfXwuZLLskDjNrbWXpqH',feed id:'7105',user id:'5289' })
CREATE (user33) -[:HAS COMMENTED]->(comment3)
CREATE (feed33) -[:HAS COMMENT]->(comment3)CREATE (comment4:Comment{
comment id:'2224',content:'zKOACDoUGtegREALhcph',feed id:'8699',user id:'9956' })
CREATE (user11) -[:HAS_COMMENTED]->(comment4)
CREATE (feed11) -[:HAS COMMENT]->(comment4)CREATE (comment5:Comment{
comment_id:'8116',content:'gRDDebkriNDKbRFNHdgv',feed_id:'2189',user_id:'4162' })
CREATE (user27) -[:HAS_COMMENTED]->(comment5)
CREATE (feed27) -[:HAS_COMMENT]->(comment5)CREATE (comment6:Comment{
comment id:'6481',content:'hleBlaxZWUNGIFBCYWlg',feed id:'6551',user id:'5126' })
CREATE (user43) -[:HAS_COMMENTED]->(comment6)
CREATE (feed43) -[:HAS COMMENT]->(comment6)CREATE (comment7:Comment{
comment id:'7812',content:'fBrhsHZnTZViQXJyDpCe',feed id:'8081',user id:'4026' })
CREATE (user4) -[:HAS COMMENTED]->(comment7)
CREATE (feed4) -[:HAS COMMENT]->(comment7)CREATE (comment8:Comment{
comment id:'8087',content:'WPBALdhGWqvuAElAhrhL',feed id:'7792',user id:'2864' })
```

```
CREATE (user13)-[:HAS COMMENTED]->(comment8)
CREATE (feed13) -[:HAS_COMMENT]->(comment8)CREATE (comment9:Comment{
comment id:'1136',content:'gcEQxJWXNxDYGfrgMget',feed id:'1122',user id:'9742' })
CREATE (user30) -[:HAS_COMMENTED]->(comment9)
CREATE (feed30) -[:HAS COMMENT]->(comment9)CREATE (comment10:Comment{
comment id:'9871',content:'fqxpfhwMaaBXLkaldOxb',feed id:'7146',user id:'5091' })
CREATE (user21) -[:HAS COMMENTED]->(comment10)
CREATE (feed21) -[:HAS_COMMENT]->(comment10)CREATE (comment11:Comment{
comment_id:'9530',content:'DEcrEJQoomfnhiLfpOIv',feed_id:'7288',user_id:'6458' })
CREATE (user39) -[:HAS COMMENTED]->(comment11)
CREATE (feed39) -[:HAS COMMENT]->(comment11)CREATE (comment12:Comment{
comment id:'5861',content:'xzgwLHDwvEIrUotJVSKE',feed id:'8963',user id:'1215' })
CREATE (user6) -[:HAS_COMMENTED]->(comment12)
CREATE (feed6) -[:HAS_COMMENT]->(comment12)CREATE (comment13:Comment{
comment id:'6510',content:'wZTwXIVdgASvCHZKgpxs',feed id:'2938',user id:'5569' })
CREATE (user41) -[:HAS_COMMENTED]->(comment13)
CREATE (feed41) -[:HAS COMMENT]->(comment13)CREATE (comment14:Comment{
comment id:'5267',content:'mBlYbkPPCPcJXCIrvRxE',feed id:'3669',user id:'3879' })
CREATE (user32) -[:HAS_COMMENTED]->(comment14)
CREATE (feed32) -[:HAS_COMMENT]->(comment14)CREATE (comment15:Comment{
comment id:'3568',content:'jNbZbqTphtxXvFeHWJyQ',feed id:'9976',user id:'7326' })
CREATE (user46) -[:HAS COMMENTED]->(comment15)
CREATE (feed46) -[:HAS COMMENT]->(comment15)CREATE (comment16:Comment{
comment id:'2194',content:'iNUOPgVSaKvevNfZjZSy',feed id:'8103',user id:'2484' })
CREATE (user47) -[:HAS_COMMENTED]->(comment16)
CREATE (feed47) -[:HAS COMMENT]->(comment16)CREATE (comment17:Comment{
comment id:'3087',content:'eTZUDKInguSGDrjSoAXK',feed id:'8081',user id:'4026' })
CREATE (user4) -[:HAS COMMENTED]->(comment17)
CREATE (feed4) -[:HAS COMMENT]->(comment17)CREATE (comment18:Comment{
comment id:'7672',content:'cYwXxWycySUUapRSDGAB',feed id:'8174',user id:'6611' })
CREATE (user42) -[:HAS_COMMENTED]->(comment18)
CREATE (feed42) -[:HAS_COMMENT]->(comment18)CREATE (comment19:Comment{
comment id:'2895',content:'rlhGYWqggPXqOetPHdmw',feed id:'3563',user id:'6039' })
CREATE (user23) -[:HAS_COMMENTED]->(comment19)
CREATE (feed23) -[:HAS COMMENT]->(comment19)CREATE (comment20:Comment{
comment id:'3331',content:'ZKnaXlEDefRjxfMllwSa',feed id:'5309',user id:'2591' })
CREATE (user7) -[:HAS_COMMENTED]->(comment20)
CREATE (feed7) -[:HAS COMMENT]->(comment20)CREATE (comment21:Comment{
comment id:'3976',content:'ZbRevZImTVxybGMPgSeV',feed id:'7068',user id:'5273' })
CREATE (user38) -[:HAS COMMENTED]->(comment21)
CREATE (feed38) -[:HAS_COMMENT]->(comment21)CREATE (comment22:Comment{
comment_id:'4856',content:'IGBVfJUhfAGCbyeaHXmE',feed_id:'9976',user_id:'7326' })
CREATE (user46) -[:HAS_COMMENTED]->(comment22)
CREATE (feed46) -[:HAS COMMENT]->(comment22)CREATE (comment23:Comment{
comment id:'4985',content:'crSrsBayLleHIFtuedJv',feed id:'3563',user id:'6039' })
CREATE (user23) -[:HAS COMMENTED]->(comment23)
CREATE (feed23) -[:HAS COMMENT]->(comment23)CREATE (comment24:Comment{
comment id:'9750',content:'yQWPKPtMThgqmUJbtefM',feed id:'3673',user id:'7311' })
```

```
CREATE (user10)-[:HAS COMMENTED]->(comment24)
CREATE (feed10) -[:HAS_COMMENT]->(comment24)CREATE (comment25:Comment{
comment id:'1768',content:'BmPJJoKQIKvehlzMxeuq',feed id:'6210',user id:'6766' })
CREATE (user19) -[:HAS_COMMENTED]->(comment25)
CREATE (feed19) -[:HAS COMMENT]->(comment25)CREATE (comment26:Comment{
comment id:'1206',content:'PTLZdpmoLmedESICPFFb',feed id:'3673',user id:'7311' })
CREATE (user10) -[:HAS COMMENTED]->(comment26)
CREATE (feed10) -[:HAS_COMMENT]->(comment26)CREATE (comment27:Comment{
comment_id:'6581',content:'JJjFEVQjnhEfmOzbtRuG',feed_id:'2938',user_id:'5569' })
CREATE (user41) -[:HAS COMMENTED]->(comment27)
CREATE (feed41) -[:HAS COMMENT]->(comment27)CREATE (comment28:Comment{
comment id:'1553',content:'cdfYansyRCpOEyWiKLHX',feed id:'1771',user id:'4303' })
CREATE (user45) -[:HAS_COMMENTED]->(comment28)
CREATE (feed45) -[:HAS COMMENT]->(comment28)CREATE (comment29:Comment{
comment id:'9227',content:'BQJVHwnaUwlTecyZHYfJ',feed id:'2237',user id:'2718' })
CREATE (user37) -[:HAS_COMMENTED]->(comment29)
CREATE (feed37) -[:HAS COMMENT]->(comment29)CREATE (comment30:Comment{
comment id:'1981',content:'tFlpzjeznkFcVROOHDIw',feed id:'8963',user id:'1215' })
CREATE (user6) -[:HAS_COMMENTED]->(comment30)
CREATE (feed6) -[:HAS_COMMENT]->(comment30)CREATE (comment31:Comment{
comment id:'2502',content:'BCFErvcIXsOsCKBRXqfg',feed id:'1122',user id:'9742' })
CREATE (user30) -[:HAS COMMENTED]->(comment31)
CREATE (feed30) -[:HAS_COMMENT]->(comment31)CREATE (comment32:Comment{
comment id:'2603',content:'WIkIMGohusCEtggMXBhd',feed id:'3498',user id:'6560' })
CREATE (user35) -[:HAS_COMMENTED]->(comment32)
CREATE (feed35) -[:HAS COMMENT]->(comment32)CREATE (comment33:Comment{
comment id:'6116',content:'qyUcRjMpJIrvISPuZfhL',feed id:'8081',user id:'4026' })
CREATE (user4) -[:HAS COMMENTED]->(comment33)
CREATE (feed4) -[:HAS COMMENT]->(comment33)CREATE (comment34:Comment{
comment id:'1890',content:'PMkyuRcrkumJHjKocqpt',feed id:'2817',user id:'9703' })
CREATE (user16) -[:HAS_COMMENTED]->(comment34)
CREATE (feed16) -[:HAS_COMMENT]->(comment34)CREATE (comment35:Comment{
comment id:'7102',content:'gYEMcgRfBQCwdCiVwTvN',feed id:'9976',user id:'7326' })
CREATE (user46) -[:HAS_COMMENTED]->(comment35)
CREATE (feed46) -[:HAS COMMENT]->(comment35)CREATE (comment36:Comment{
comment id:'8144',content:'YUtWjJTDstEWSbaiRmUJ',feed id:'7105',user id:'5289' })
CREATE (user33) -[:HAS COMMENTED]->(comment36)
CREATE (feed33) -[:HAS COMMENT]->(comment36)CREATE (comment37:Comment{
comment id:'8695',content:'BDATyEzygtoUTgexlhJO',feed id:'9916',user id:'5968' })
CREATE (user40) -[:HAS COMMENTED]->(comment37)
CREATE (feed40) -[:HAS_COMMENT]->(comment37)CREATE (comment38:Comment{
comment_id:'8620',content:'QeVgMjqOOfahflaxMGec',feed_id:'6409',user_id:'9599' })
CREATE (user3) -[:HAS_COMMENTED]->(comment38)
CREATE (feed3) -[:HAS COMMENT]->(comment38)CREATE (comment39:Comment{
comment id:'4381',content:'FQELAZwMIqhAVIfBgBFK',feed id:'3518',user id:'4801' })
CREATE (user1) -[:HAS COMMENTED]->(comment39)
CREATE (feed1) -[:HAS COMMENT]->(comment39)CREATE (comment40:Comment{
comment id:'2972',content:'SGaoyTmgfxqUKnxqIzzC',feed id:'1771',user id:'4303' })
```

```
CREATE (user45)-[:HAS COMMENTED]->(comment40)
CREATE (feed45) -[:HAS COMMENT]->(comment40)CREATE (comment41:Comment{
comment id:'1170',content:'awjDKVRoDzueyQzscCLQ',feed id:'1771',user id:'4303' })
CREATE (user45) -[:HAS_COMMENTED]->(comment41)
CREATE (feed45) -[:HAS COMMENT]->(comment41)CREATE (comment42:Comment{
comment id:'7860',content:'WZPbsEeSWyACdUJeZEhS',feed id:'3673',user id:'7311' })
CREATE (user10) -[:HAS COMMENTED]->(comment42)
CREATE (feed10) -[:HAS_COMMENT]->(comment42)CREATE (comment43:Comment{
comment_id:'4329',content:'VUUWvwvcADWLqCaneGFB',feed_id:'5309',user_id:'2591' })
CREATE (user7) -[:HAS COMMENTED]->(comment43)
CREATE (feed7) -[:HAS COMMENT]->(comment43)CREATE (comment44:Comment{
comment id:'8226',content:'QIYwluTojuNMvCuVHBcX',feed id:'9976',user id:'7326' })
CREATE (user46) -[:HAS_COMMENTED]->(comment44)
CREATE (feed46) -[:HAS COMMENT]->(comment44)CREATE (comment45:Comment{
comment id:'6906',content:'RTCmMpfuflSFcDuyzGMm',feed id:'7288',user id:'6458' })
CREATE (user39) -[:HAS_COMMENTED]->(comment45)
CREATE (feed39) -[:HAS COMMENT]->(comment45)CREATE (comment46:Comment{
comment id:'7763',content:'uhEylSKQcgOpqnlZAGvA',feed id:'3805',user id:'8175' })
CREATE (user49) -[:HAS_COMMENTED]->(comment46)
CREATE (feed49) -[:HAS_COMMENT]->(comment46)CREATE (comment47:Comment{
comment id:'7500',content:'wthQHNtlHNfsnbMklXKx',feed id:'2616',user id:'9978' })
CREATE (user26) -[:HAS COMMENTED]->(comment47)
CREATE (feed26) -[:HAS COMMENT]->(comment47)CREATE (comment48:Comment{
comment id:'3337',content:'hykowgyVYOxicdrSwJZw',feed id:'7068',user id:'5273' })
CREATE (user38) -[:HAS_COMMENTED]->(comment48)
CREATE (feed38) -[:HAS COMMENT]->(comment48)CREATE (comment49:Comment{
comment id:'3151',content:'tbbGNsYvWevpuUxlyFmX',feed id:'7781',user id:'1623' })
CREATE (user14) -[:HAS COMMENTED]->(comment49)
CREATE (feed14) -[:HAS COMMENT]->(comment49)
CREATE (retweet0:Retweet{ retweet_id:'9772',user_id:'8431',feed_id:'5309' })
CREATE (user44) -[:HAS_RETWEETED]->(retweet0)
CREATE (feed7) -[:HAS RETWEET]->(retweet0)CREATE (retweet1:Retweet{
retweet_id:'9264',user_id:'2484',feed_id:'9549' })
CREATE (user47) -[:HAS RETWEETED]->(retweet1)
CREATE (feed34) -[:HAS_RETWEET]->(retweet1)CREATE (retweet2:Retweet{
retweet id:'7473',user id:'3848',feed id:'7288' })
CREATE (user12) -[:HAS_RETWEETED]->(retweet2)
CREATE (feed39) -[:HAS RETWEET]->(retweet2)CREATE (retweet3:Retweet{
retweet id:'4623',user id:'2591',feed id:'8699' })
CREATE (user7) -[:HAS_RETWEETED]->(retweet3)
CREATE (feed11) -[:HAS_RETWEET]->(retweet3)CREATE (retweet4:Retweet{
retweet_id:'9942',user_id:'4415',feed_id:'3563' })
CREATE (user18) -[:HAS RETWEETED]->(retweet4)
CREATE (feed23) -[:HAS_RETWEET]->(retweet4)CREATE (retweet5:Retweet{
retweet id:'8730',user id:'3848',feed id:'1771' })
CREATE (user12) -[:HAS_RETWEETED]->(retweet5)
```

```
CREATE (feed45) -[:HAS RETWEET]->(retweet5)CREATE (retweet6:Retweet{
retweet id:'4567',user id:'4355',feed id:'3563' })
CREATE (user2) -[:HAS RETWEETED]->(retweet6)
CREATE (feed23) -[:HAS_RETWEET]->(retweet6)CREATE (retweet7:Retweet{
retweet id:'1672',user id:'8431',feed id:'7906' })
CREATE (user44) -[:HAS_RETWEETED]->(retweet7)
CREATE (feed24) -[:HAS_RETWEET]->(retweet7)CREATE (retweet8:Retweet{
retweet_id:'7973',user_id:'7340',feed_id:'3518' })
CREATE (user34) -[:HAS_RETWEETED]->(retweet8)
CREATE (feed1) -[:HAS RETWEET]->(retweet8)CREATE (retweet9:Retweet{
retweet id:'8593',user id:'4790',feed id:'2817' })
CREATE (user24) -[:HAS RETWEETED]->(retweet9)
CREATE (feed16) -[:HAS RETWEET]->(retweet9)CREATE (retweet10:Retweet{
retweet id:'6904',user id:'6047',feed id:'2616' })
CREATE (user29) -[:HAS_RETWEETED]->(retweet10)
CREATE (feed26) -[:HAS_RETWEET]->(retweet10)CREATE (retweet11:Retweet{
retweet_id:'5633',user_id:'6458',feed_id:'2817' })
CREATE (user39) -[:HAS_RETWEETED]->(retweet11)
CREATE (feed16) -[:HAS_RETWEET]->(retweet11)CREATE (retweet12:Retweet{
retweet_id:'3481',user_id:'5252',feed_id:'7792' })
CREATE (user20) -[:HAS RETWEETED]->(retweet12)
CREATE (feed13) -[:HAS RETWEET]->(retweet12)CREATE (retweet13:Retweet{
retweet_id:'6327',user_id:'1215',feed_id:'9976' })
CREATE (user6) -[:HAS RETWEETED]->(retweet13)
CREATE (feed46) -[:HAS_RETWEET]->(retweet13)CREATE (retweet14:Retweet{
retweet id:'2836',user id:'5968',feed id:'7462' })
CREATE (user40) -[:HAS_RETWEETED]->(retweet14)
CREATE (feed8) -[:HAS_RETWEET]->(retweet14)CREATE (retweet15:Retweet{
retweet_id:'1258',user_id:'4162',feed_id:'8699' })
CREATE (user27) -[:HAS_RETWEETED]->(retweet15)
CREATE (feed11) -[:HAS_RETWEET]->(retweet15)CREATE (retweet16:Retweet{
retweet_id:'2753',user_id:'4162',feed_id:'1463' })
CREATE (user27) -[:HAS RETWEETED]->(retweet16)
CREATE (feed9) -[:HAS RETWEET]->(retweet16)CREATE (retweet17:Retweet{
retweet id:'5240',user id:'5968',feed id:'1600' })
CREATE (user40) -[:HAS_RETWEETED]->(retweet17)
CREATE (feed15) -[:HAS_RETWEET]->(retweet17)CREATE (retweet18:Retweet{
retweet id:'2993',user id:'6560',feed id:'3673' })
CREATE (user35) -[:HAS_RETWEETED]->(retweet18)
CREATE (feed10) -[:HAS_RETWEET]->(retweet18)CREATE (retweet19:Retweet{
retweet_id:'4857',user_id:'1185',feed_id:'8081' })
CREATE (user17) -[:HAS_RETWEETED]->(retweet19)
CREATE (feed4) -[:HAS_RETWEET]->(retweet19)CREATE (retweet20:Retweet{
retweet id:'3092',user id:'7326',feed id:'2798' })
CREATE (user46) -[:HAS_RETWEETED]->(retweet20)
CREATE (feed29) -[:HAS RETWEET]->(retweet20)CREATE (retweet21:Retweet{
retweet id:'4252',user id:'1212',feed id:'5351' })
CREATE (user36) -[:HAS RETWEETED]->(retweet21)
```

```
CREATE (feed25) -[:HAS RETWEET]->(retweet21)CREATE (retweet22:Retweet{
retweet id:'7514',user id:'5289',feed id:'1771' })
CREATE (user33) -[:HAS RETWEETED]->(retweet22)
CREATE (feed45) -[:HAS_RETWEET]->(retweet22)CREATE (retweet23:Retweet{
retweet id:'1465',user id:'4996',feed id:'9976' })
CREATE (user22) -[:HAS_RETWEETED]->(retweet23)
CREATE (feed46) -[:HAS_RETWEET]->(retweet23)CREATE (retweet24:Retweet{
retweet_id:'1557',user_id:'9978',feed_id:'5592' })
CREATE (user26) -[:HAS_RETWEETED]->(retweet24)
CREATE (feed28) -[:HAS RETWEET]->(retweet24)CREATE (retweet25:Retweet{
retweet id:'8546',user id:'9599',feed id:'1600' })
CREATE (user3) -[:HAS RETWEETED]->(retweet25)
CREATE (feed15) -[:HAS RETWEET]->(retweet25)CREATE (retweet26:Retweet{
retweet id:'3489',user id:'5252',feed id:'4329' })
CREATE (user20) -[:HAS_RETWEETED]->(retweet26)
CREATE (feed17) -[:HAS_RETWEET]->(retweet26)CREATE (retweet27:Retweet{
retweet_id:'5400',user_id:'2591',feed_id:'7068' })
CREATE (user7) -[:HAS_RETWEETED]->(retweet27)
CREATE (feed38) -[:HAS_RETWEET]->(retweet27)CREATE (retweet28:Retweet{
retweet_id:'9872',user_id:'2382',feed_id:'9976' })
CREATE (user8) -[:HAS RETWEETED]->(retweet28)
CREATE (feed46) -[:HAS RETWEET]->(retweet28)CREATE (retweet29:Retweet{
retweet_id:'6089',user_id:'6611',feed_id:'6551' })
CREATE (user42) -[:HAS RETWEETED]->(retweet29)
CREATE (feed43) -[:HAS_RETWEET]->(retweet29)CREATE (retweet30:Retweet{
retweet id:'2706',user id:'1215',feed id:'7288' })
CREATE (user6) -[:HAS_RETWEETED]->(retweet30)
CREATE (feed39) -[:HAS_RETWEET]->(retweet30)CREATE (retweet31:Retweet{
retweet_id:'6608',user_id:'4996',feed_id:'5592' })
CREATE (user22) -[:HAS_RETWEETED]->(retweet31)
CREATE (feed28) -[:HAS_RETWEET]->(retweet31)CREATE (retweet32:Retweet{
retweet_id:'7797',user_id:'9859',feed_id:'7146' })
CREATE (user15) -[:HAS RETWEETED]->(retweet32)
CREATE (feed21) -[:HAS_RETWEET]->(retweet32)CREATE (retweet33:Retweet{
retweet id:'4140',user id:'7340',feed id:'2237' })
CREATE (user34) -[:HAS_RETWEETED]->(retweet33)
CREATE (feed37) -[:HAS_RETWEET]->(retweet33)CREATE (retweet34:Retweet{
retweet_id:'5627',user_id:'1212',feed_id:'3191' })
CREATE (user36) -[:HAS_RETWEETED]->(retweet34)
CREATE (feed22) -[:HAS_RETWEET]->(retweet34)CREATE (retweet35:Retweet{
retweet_id:'3058',user_id:'9742',feed_id:'6894' })
CREATE (user30) -[:HAS_RETWEETED]->(retweet35)
CREATE (feed5) -[:HAS_RETWEET]->(retweet35)CREATE (retweet36:Retweet{
retweet id:'1570',user id:'5252',feed id:'7068' })
CREATE (user20) -[:HAS_RETWEETED]->(retweet36)
CREATE (feed38) -[:HAS_RETWEET]->(retweet36)CREATE (retweet37:Retweet{
retweet id:'1905',user id:'8431',feed id:'8963' })
CREATE (user44) -[:HAS RETWEETED]->(retweet37)
```

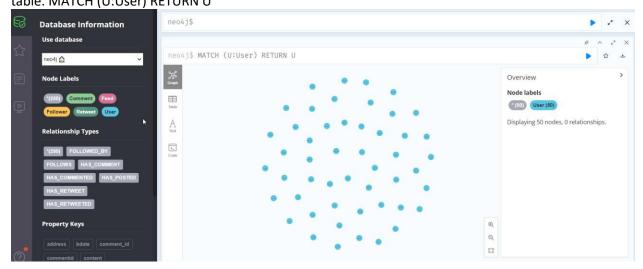
```
CREATE (feed6) -[:HAS RETWEET]->(retweet37)CREATE (retweet38:Retweet{
retweet id:'1559',user id:'3879',feed id:'1463' })
CREATE (user32) -[:HAS RETWEETED]->(retweet38)
CREATE (feed9) -[:HAS RETWEET]->(retweet38)CREATE (retweet39:Retweet{
retweet id:'5102',user id:'9859',feed id:'8103' })
CREATE (user15) -[:HAS_RETWEETED]->(retweet39)
CREATE (feed47) -[:HAS_RETWEET]->(retweet39)CREATE (retweet40:Retweet{
retweet_id:'9983',user_id:'4415',feed_id:'2798' })
CREATE (user18) -[:HAS_RETWEETED]->(retweet40)
CREATE (feed29) -[:HAS RETWEET]->(retweet40)CREATE (retweet41:Retweet{
retweet id:'9461',user id:'4162',feed id:'6894' })
CREATE (user27) -[:HAS RETWEETED]->(retweet41)
CREATE (feed5) -[:HAS RETWEET]->(retweet41)CREATE (retweet42:Retweet{
retweet id:'7560',user id:'9978',feed id:'1463' })
CREATE (user26) -[:HAS_RETWEETED]->(retweet42)
CREATE (feed9) -[:HAS_RETWEET]->(retweet42)CREATE (retweet43:Retweet{
retweet_id:'4652',user_id:'4415',feed_id:'2701' })
CREATE (user18) -[:HAS_RETWEETED]->(retweet43)
CREATE (feed2) -[:HAS_RETWEET]->(retweet43)CREATE (retweet44:Retweet{
retweet_id:'9584',user_id:'3879',feed_id:'7906' })
CREATE (user32) -[:HAS RETWEETED]->(retweet44)
CREATE (feed24) -[:HAS RETWEET]->(retweet44)CREATE (retweet45:Retweet{
retweet_id:'7008',user_id:'5126',feed_id:'2796' })
CREATE (user43) -[:HAS RETWEETED]->(retweet45)
CREATE (feed36) -[:HAS_RETWEET]->(retweet45)CREATE (retweet46:Retweet{
retweet id:'9654',user id:'8285',feed id:'6210' })
CREATE (user5) -[:HAS_RETWEETED]->(retweet46)
CREATE (feed19) -[:HAS_RETWEET]->(retweet46)CREATE (retweet47:Retweet{
retweet_id:'3090',user_id:'2382',feed_id:'2189' })
CREATE (user8) -[:HAS_RETWEETED]->(retweet47)
CREATE (feed27) -[:HAS_RETWEET]->(retweet47)CREATE (retweet48:Retweet{
retweet_id:'7692',user_id:'9978',feed_id:'4329' })
CREATE (user26) -[:HAS RETWEETED]->(retweet48)
CREATE (feed17) -[:HAS_RETWEET]->(retweet48)CREATE (retweet49:Retweet{
retweet id:'6613',user id:'1212',feed id:'3191' })
CREATE (user36) -[:HAS_RETWEETED]->(retweet49)
CREATE (feed22) -[:HAS RETWEET]->(retweet49)
```

# **Use Cases:**

#### **Neo4J Use Cases:**

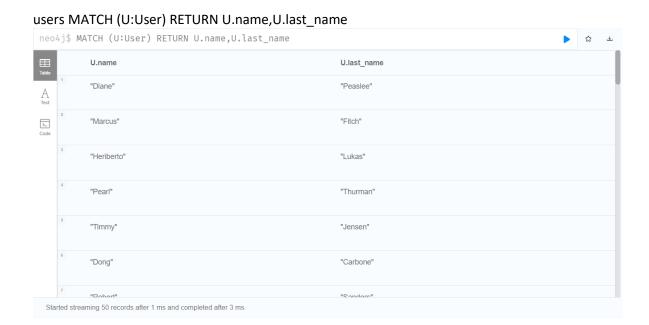
1. Return the information about all the users present.

#This would return all the users names present in the User table. MATCH (U:User) RETURN U



2. Return the information about first name and the last name of all users present.

#This would return all the information about the first name, last name of all the



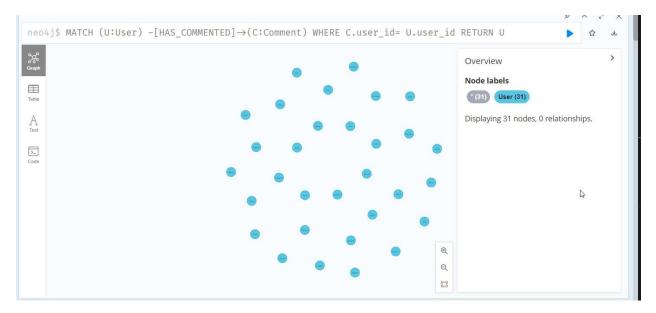
#### 3. Return information of all users who have commented something.

#This would return the names of all users who has commented something.

MATCH (U:User) -[HAS\_COMMENTED]->(C:Comment)

WHERE C.user\_id= U.user\_id

RETURN U



#### 4. Return the information of all the users who have their last name as 'Lukas'

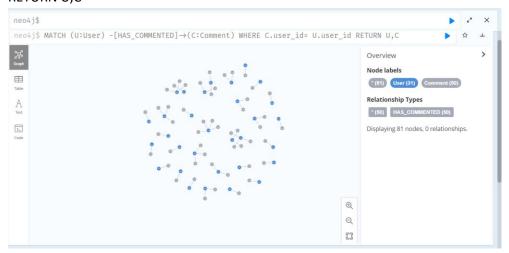
#This gets all the users who have all the last names as Lukas MATCH (U:User) WHERE U.last\_name='Lukas' RETURN U



# 5. Retrieve all users (nodes) who have commented something and also return their relationship.

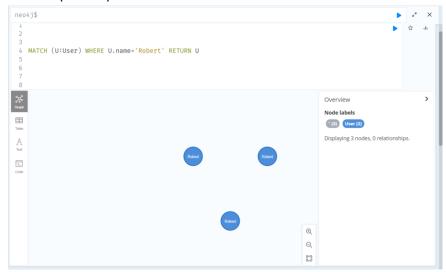
#This gets all the users who has all the people commented something and return relationship MATCH (U:User) -[HAS\_COMMENTED]->(C:Comment)

# WHERE C.user\_id= U.user\_id RETURN U,C



#### 6. Return all the users who have "Robert" as their first name.

# This returns users whose name is Robert as their fistrame MATCH (U:User) WHERE U.name='Robert' RETURN U



# 7. Return the first names and last names of users and the feed content that they have posted.

#This would help you get the first names and feed content everyone has posted.

MATCH (U:User)-[HAS\_POSTED]->(F:Feed)
WHERE U.user\_id = F.user\_id
RETURN U.fname, U.lname, F.content

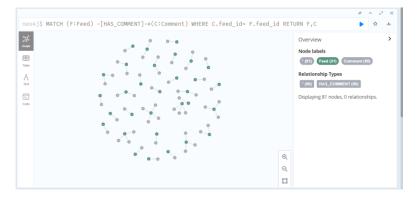


#### 8. Return all the comments on all the feeds.

**#**This returns all the comments which are in the feed

MATCH (F:Feed) -[HAS\_COMMENT]->(C:Comment)

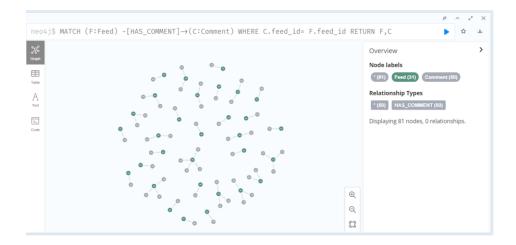
WHERE C.feed\_id= F.feed\_id RETURN F,C



# 9. List all the comments on all the feeds and their relationship.

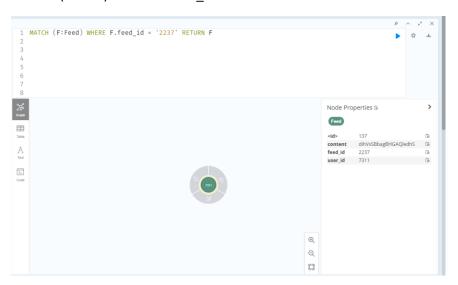
#This lists the all the comments on feeds and the relationships

MATCH (F:Feed) -[HAS\_COMMENT]->(C:Comment) WHERE C.feed\_id= F.feed\_id RETURN F,C



#### 10. Retrive a particular feed with feed id = '1234'.

#This would retrieve all the feed with id = 1234
MATCH (F:Feed) WHERE F.feed\_id = '2237' RETURN F



# 11. Return all the users and the feeds retweeted by them.

#This would return all the users and feeds which are retweeted by users

MATCH (U:User)-[HAS\_RETWEETED]->(R:Retweet)
MATCH (F:Feed)-[HAS\_RETWEET]->(R:Retweet)
WHERE F.feed\_id = R.feed\_id
and U.user\_id = R.user\_id
RETURN U.name, F.content



#### 12. Return all the users and their followers.

#This would return all the users with their followers

MATCH (U:User) -[HAS\_FOLLOWER]->(F:Follower)
WHERE U.user\_id = F.user\_id
RETURN U.name, F.name



# 13. Find a user with user id as '2865'

#This would return a user with Id = 2865

MATCH (U:User) WHERE U.user\_id='7311' RETURN U.name



# 14. Find a user through email id.

#This would get a user name with emailid 'fscblQEvErgmail.com' MATCH (U:User) WHERE U.email='fscblQEvErgmail.com' RETURN U.name



# 15. Count the total number of the users.

#This displays the count of all the users in the user table MATCH (U:User)
WITH COUNT(U) AS USER\_COUNT
RETURN USER\_COUNT



# **SQL** Use Cases:

1. Return the information about all the users present.

This would return all the users names present in the User table.

SELECT \* FROM users\_table

2. Return the information about first name and the last name of all users present.

This would return all the information about the first name, last name of all the users

SELECT name, last\_name FROM users\_table

3. Return information of all users who have commented something.

 ${\tt SELECT\ user\_table.user\_id, comment\_table.user\_id}$ 

FROM user table

INNER JOIN comment\_table ON comment\_table.user\_id=user\_table.user\_id;

4. Return the information about all users who have commented something and also their relationship.

SELECT user\_table.user\_id, comment\_table.user\_id

FROM user\_table

INNER JOIN comment\_table ON comment\_table.user\_id=user\_table.user\_id;

5. Return the information of all the users who have their last name as 'Lukas'

SELECT \* FROM users\_table

WHERE last name = 'Lukas';

#### 6. Return the information all the users who have their first name as 'Robert'

SELECT \* FROM users\_table
WHERE name = 'Robert';

# 7. List the first names and last names of users and the feed content that they have posted.

SELECT user\_table.user\_id, feed\_table.user\_id, feed\_table.content FROM user\_table

INNER JOIN feeds table ON feed table.user id=user table.user id;

#### 8. List all the comments on all the feeds.

SELECT comment.feed\_id, feeds\_feed\_id, comment\_table.content

FROM feed\_table

INNER JOIN comment\_table ON feed\_table.feed\_id=comment\_table.feed\_id;

#### 9. List all the comments on all the feeds and their relationship.

SELECT comment.feed\_id, feeds\_feed\_id, comment\_table.content

FROM feed table

INNER JOIN comment\_table ON feed\_table.feed\_id=comment\_table.feed\_id;

# 10. Retrive a particular feed with feed id = '1234'.

SELECT \* FROM feed\_table

WHERE feed\_id = '1234';

#### 11. List all the users and the feeds retweeted by them.

SELECT user\_table.user\_id, feed\_table.user\_id, retweet\_table.user\_id

FROM user\_table

INNER JOIN feeds\_table ON feed\_table.user\_id=user\_table.user\_id AND retweet\_table.user\_id = user\_table.user\_id;

# 12. List all the users and their followers.

SELECT user\_table.user\_id, follower\_table.user\_id,
FROM user\_table
INNER JOIN follower\_table ON user\_table.user\_id=follower\_table.user\_id;

# 13. Retrive a particular user with user id as '2345'

SELECT \* FROM user\_table
WHERE user\_id = '2345';

# 14. Find a user through his/her email id.

SELECT \* FROM user\_table
WHERE emailid = ' fscblQEvErgmail.com ';

#### 15. Get the total number of the users.

SELECT COUNT(user\_id)

FROM user\_table;