



NODES

Neo4j: Topic properties

topic_id	string, unique, required	Unique idtopic_id
mesh_id	string, unique, optional	MeSH unique id
mesh_term	string, unique, optional	MeSH preferred term
term	string, unique, default=mesh_term	Selected preferred term
uri	string, unique, required	URI from MeSH
origin	string, default=U*	Selected origin
typology	array, default="O"	Selected typology
description	string, optional	Description of topic
tracked	boolean, default=False	Indicates if a topic is being tracked (appears as topic in front)
supplementary_concept	boolean, required	Indicates if topic is supplementary concept
source	string	Source of the topic
mesh_active	boolean, required	Whether node is active in MeSH (currently used)
last_trend_prob	float, required, default=0.0	Last probability of being trend
last_trend_prob_var	float, required, default=0.0	Last probability variation of being trend
last_sentiment_score	float, required, default=0.0	Last sentiment score
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

origin_choices = ['U': 'Universe', 'P': 'Products', 'I': 'Pipeline', 'D': 'Disease', 'A': 'Amgen', 'E': 'Other']
 typology_choices = {'A': 'Anatomy', 'B': 'Organism', 'C': 'Disease', 'D': 'Chemical / Drug', 'E': 'Analytical / Diagnostic / Therapeutic Techniques / Equipment', 'F': 'Psychiatry / Psychology', 'G': 'Phenomena / Process', 'H': 'Discipline / Occupation', 'I': 'Anthropology / Education / Sociology / Social Phenomena', 'J': 'Technology / Food & Beverage', 'K': 'Humanities', 'L': 'Information Science', 'M': 'Person', 'N': 'Health Care', 'O': 'Other', 'P': 'Product', 'Q': 'Keyword', 'R': 'Pharmacological Action', 'S': 'Molecule', 'T': 'Target', 'V': 'Publication Type', 'X': 'Check Tag', 'Y': 'Subheading', 'Z': 'Geographical Location'}

Neo4j: Author properties

sc_author_id	string, unique, required	Semantic Scholar Author id
name	string, optional	Name of the author
h_index*	integer, required, default=0.0	H_index
num_publications*	integer, required, default=0.0	Number of publications
num_citations*	integer, required, default=0.0	Number of citations
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: Tweet properties

tweet_id	string, unique, required	String tweet id (timestamp)
text	string, optional	Text of the tweet
date	date, required	Date of the tweet
hashtags	array, required, default=[]	Tweet hashtags
sentiment	float, required, default=0.0	Tweet sentiment
rank	float, required, default=0.0	Calculated tweet rank
retweets	integer	Retweet count of the tweet
favourites	integer	Like count of the tweet
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: Publication properties

pmid	string, unique, required	PubMed unique id
sc_publication_id	string, unique, required	Semantic Scholar unique id
publication_date	date, required	Publication date
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: ClinicalTrial properties

clinicaltrial_id	string, unique, required	Clinical Trials unique id
start_date	date, required	Starting date of the clinical trial
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: Product properties

product_id	string, unique, required	Product unique id
generic_name	string, required	Generic name of the product
substance_name	string, required	Substance name of the product
version	string, optional	
route	string, optional	
found_in	string, optional	
brand_name	string, optional	
product_type	string, optional	
effective_time	date, optional	
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: TwitterAccount properties

twitteraccount_id	string, unique, required	Twitter account id
screen_name	string, unique, required	Screen name of twitter account
name	string, required	Name of the twitter account
score	float, required, default=0.0	Network global influencer score
description	string	Description of the account
followers	integer	Followers of the account
following	integer	Following of the account
listed	integer	Listeds of the account
favourites	integer	Favourites of the account
statuses	integer	Number of statuses of the account
expert_score	float	Expert score of the account
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: Organization properties

organization_id	string, unique, required	Organization Unique ID
name	string, required	Organization name
num_cts	integer	Number of clinical trials
num_products	integer	Number of products
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

RELATIONSHIPS

Neo4j: worksOn properties

score	float, required, default=0.0	Particular score of an organization, author or twitter account related to a topic
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

Neo4j: isRelatedTo properties

source	string, required=True, *	Indicates the origin of the relationship
created_at	date, automatic**	Indicates date of creation
updated_at	date, automatic**	Indicates date of update
deleted_at	date, automatic**	Indicate date of removal

* origin & typology values must be selected from corresponding choices dictionary
 ** Works with triggers.

* source values must be selected from the following possibilities:
 o "DB" if link was found in original DB
 o "API" if link has been established through API