GRAPHITAGE

DATABASE DIAGRAMS

1. Relational Model

Library

library_id (PK)	int
library_name	string
library_web_site	string

Library RelationShip

Paper_id (FK)	int
Library_id (FK)	int

Reader

Reader_id (PK)	int
Reader_name	string

Reader RelationShip

Paper_id (FK)	int
Reader_id (FK)	int

Paper

Paper_id (PK)	int
Title	string
Year	date
ID type	string
Keywords	list of string
Abstract	string
Targets	list of string
Problems	list of string
Summaries	string
Components	list of string
Application domains	list of string
Highlights	list of string
Contributions	list of string
Pros	list of string
Cons	list of string
Future Work	string
Evaluation metrics	list of string
Link_of_ papers_id	list of int
Authors_Name	list of string
Constraints	list of string
Notes	list of string
Comments	list of string

Dataset Relatoinship

paper_id (FK)	int
dataset_id (FK)	int
preprocessing_steps	list of string

Dataset

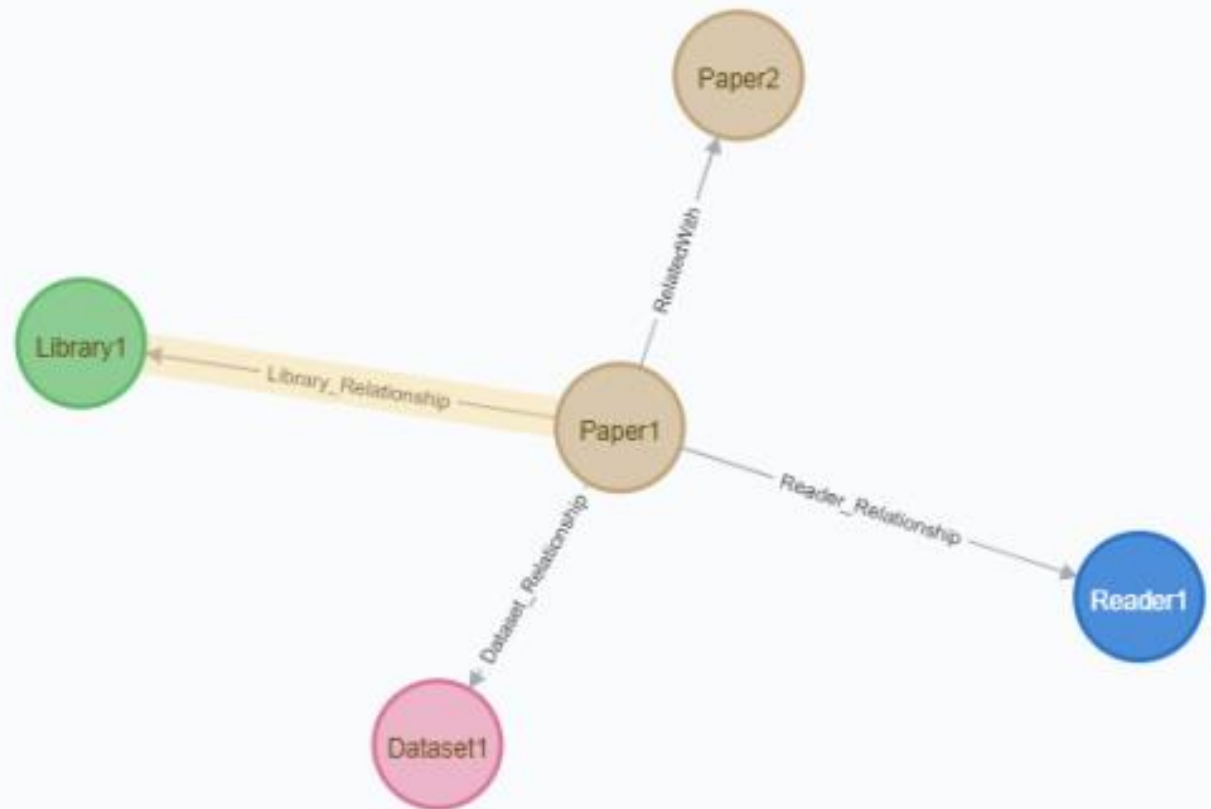|	
Dataset_id (PK)	int
Dataset_name	string
size_type	type
size	int

Entity-Relationship Diagram (Chen's Notation)
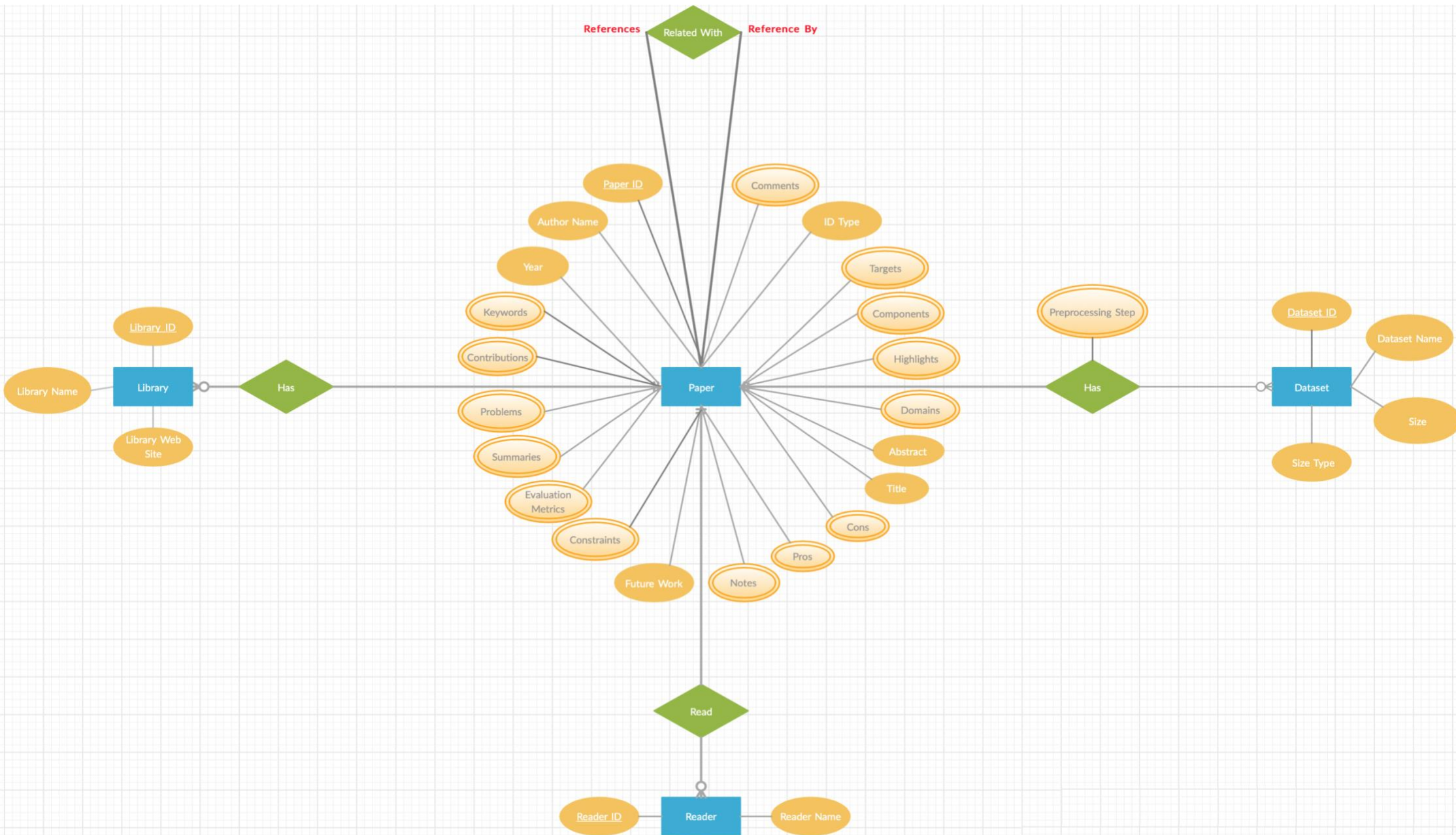
3. Simple Example with Neo4j

3.1. Paper – hasLibrary → Library

3.2. Paper – hasDataset→ Dataset
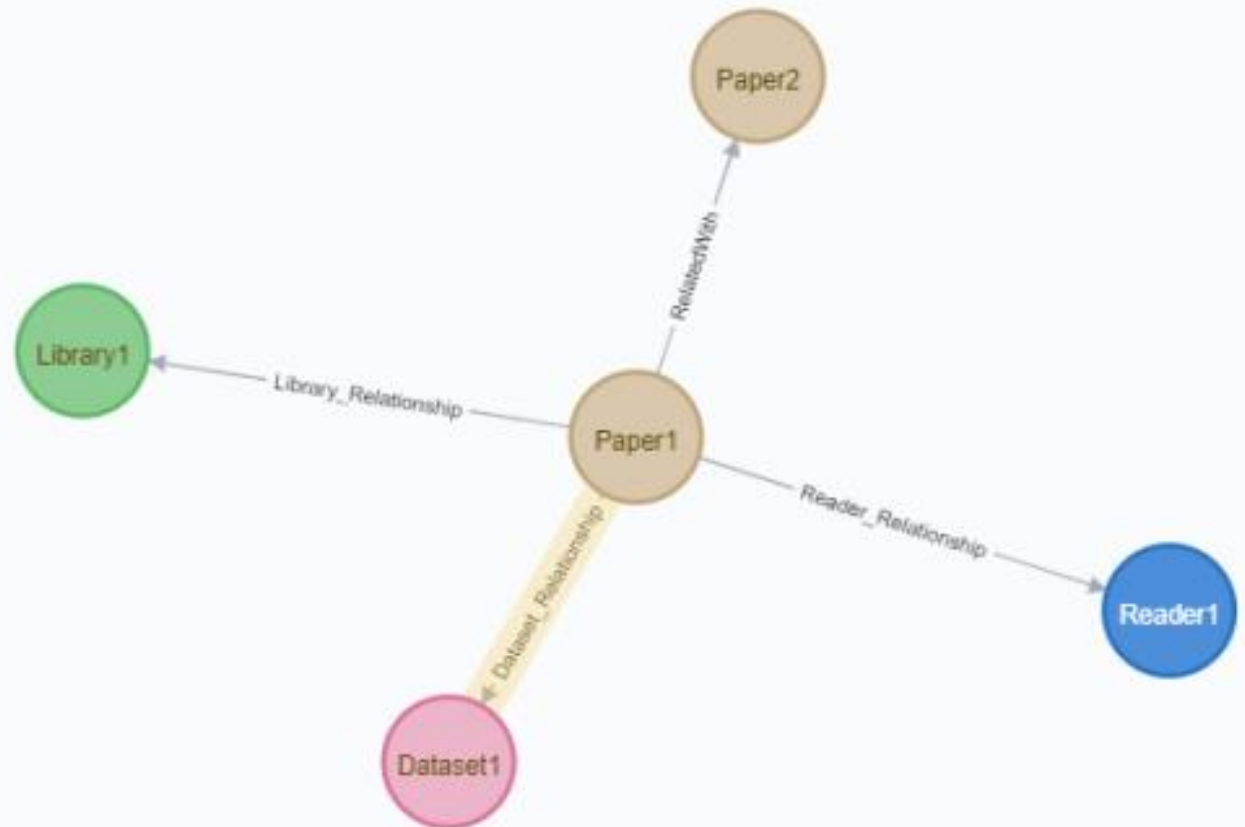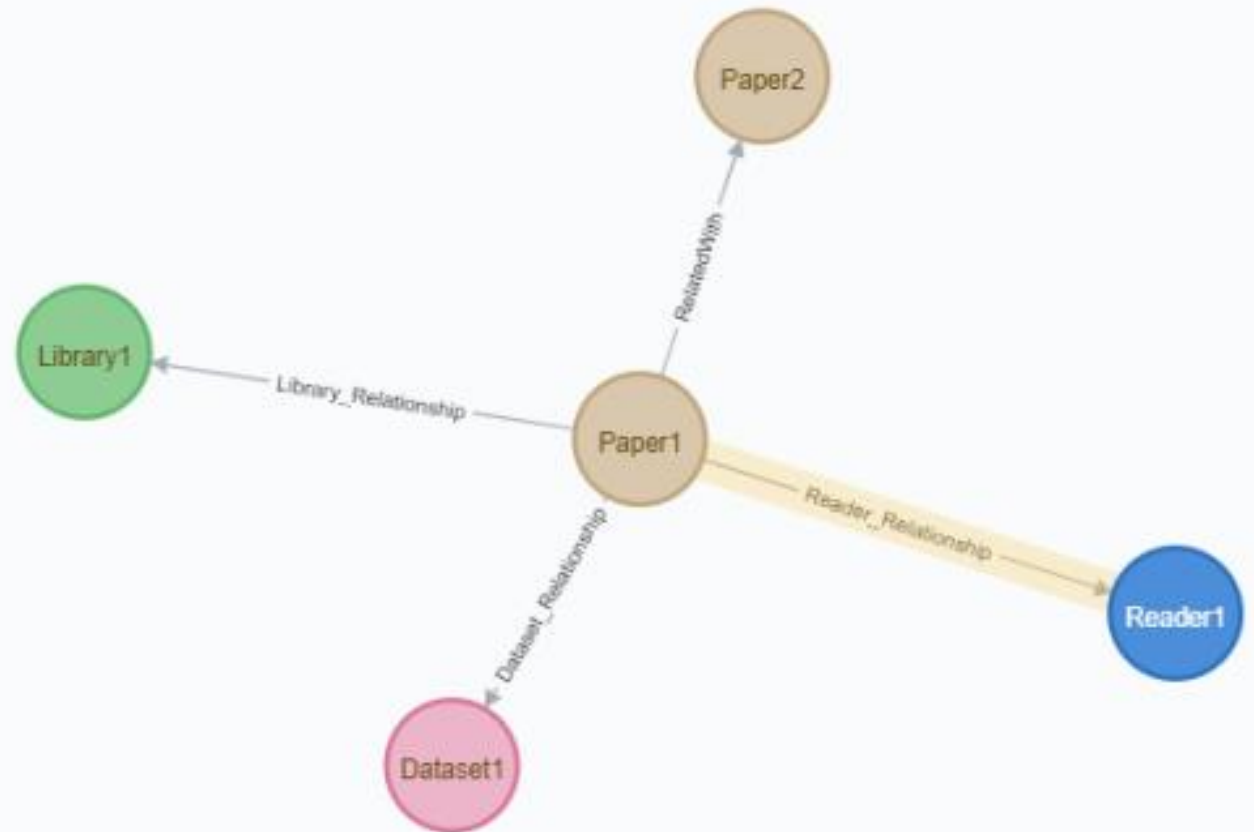

Dataset_Relationship <id>: 0 Paper_id: 1 processing_steps: Removing Noise,Normalization

3.3.   Paper – relatedWith→ Paper
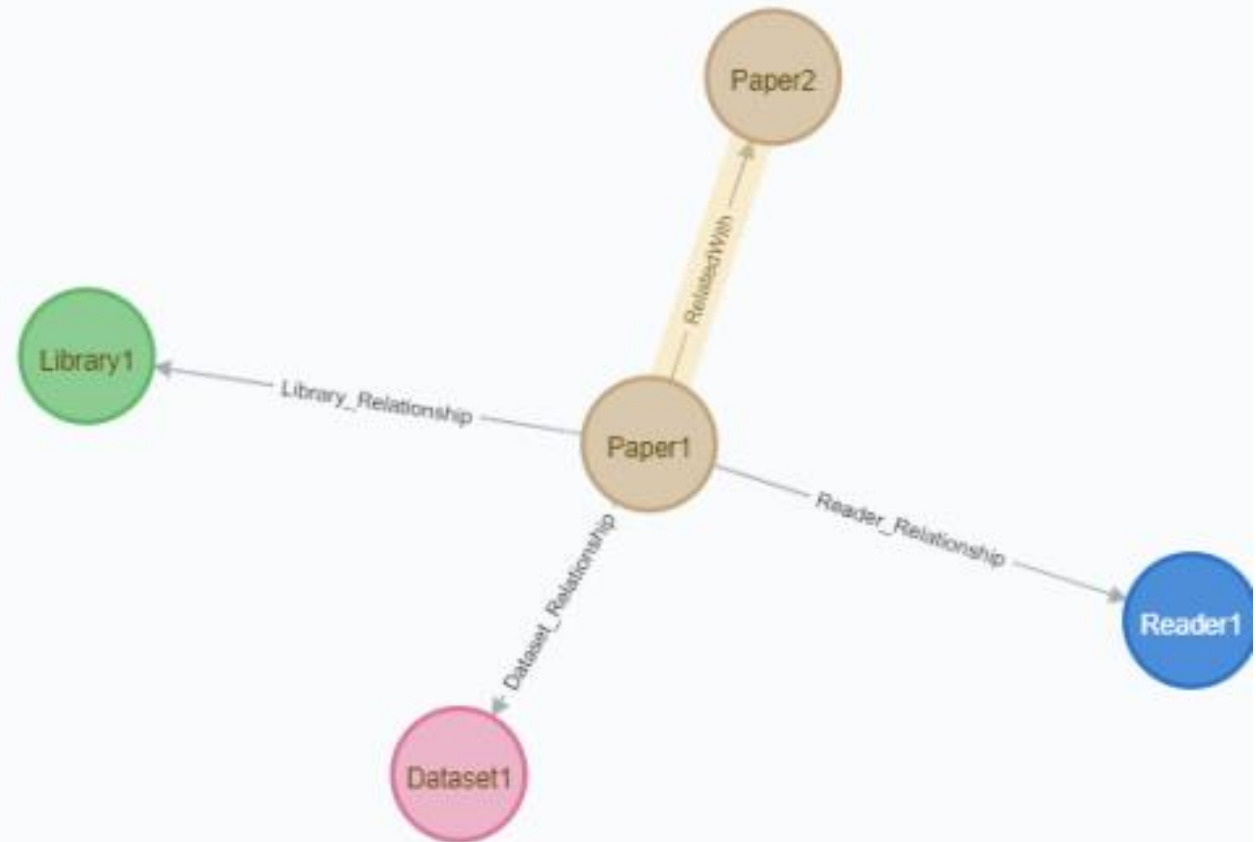
RelatedWith <id>: 3

3.4. Paper – readBy➔ Reader