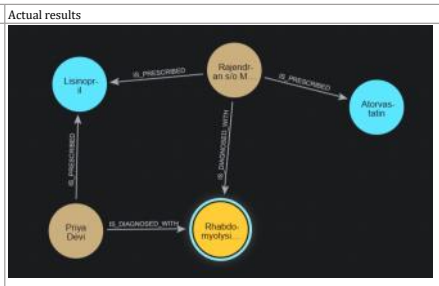
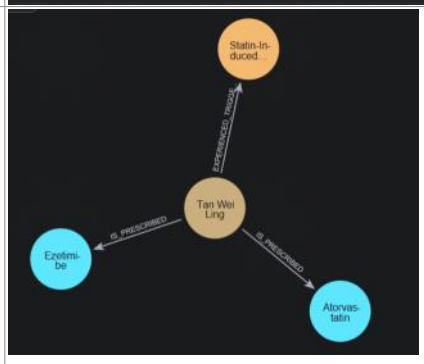
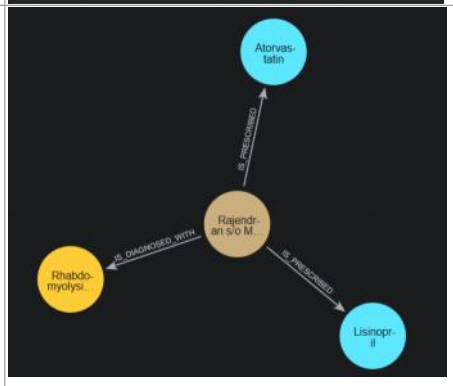
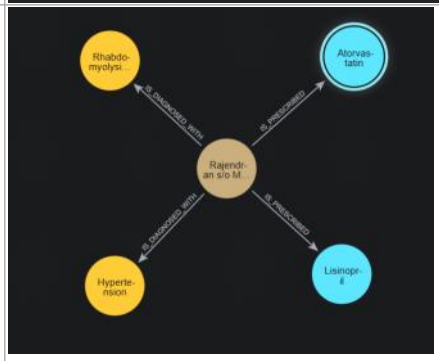
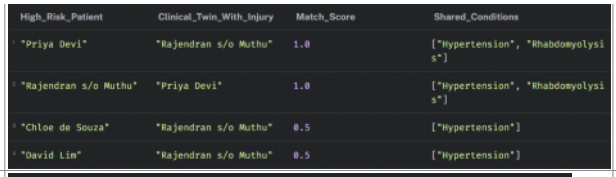
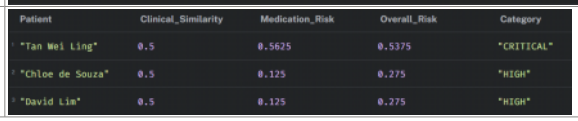
Case	Query (adapted)	Multi-hop path	Expected Results	Actual results	Remarks
1	Find patients **PRESCRIBED Lisinopril** (or equivalent) who were **DIAGNOSED_WITH Rhabdomyolysis** within 30 days of the prescription, and whose nodes or related clinical data mention 'myalgia' or 'muscle pain'.	• **Path**: Medication (Lisinopril) — [GDS Similarity] → Medication (Related) ← [IS_PRESCRIBED] — Patient — [IS_DIAGNOSED_WITH] → Condition (RDM) • **Attributes Checked**: [similarity score], [start_date], [occurrence_date], [clinical_summary: "myalgia" OR "muscle pain"]	**2 patients:** Priya and Rajendran (clinical notes states "soreness") **Medications:** Lisinopril and Atorvastatin (linked by similarity).	 Patient | Drug_Used | Score "Rajendran s/o Muthu" | "Atorvastatin" | 0.25 "Rajendran s/o Muthu" | "Lisinopril" | 1.0 "Priya Devi" | "Lisinopril" | 1.0	"equivalent" works using GDS similarity between drugs Priya direct signal Rajendran equivalent signal
2	Find patients who were on a medication, experienced a **Trigger** (Statin-Induced Myopathy), and were switched to a different medication within **48 hours**.	• **Path**: Patient — [IS_PRESCRIBED] → Medication (Old) AND Patient — [IS_PRESCRIBED] → Medication (New) • **Attributes Checked**: [start_date (Old)], [start_date (New)], [occurrence_date (Trigger)], [time_diff: <= 48 hours]	**Patient:** Tan Wei Ling Was on Atorvastatin, experienced "Statin-Induced Myopathy", switched to Ezetimibe" within 48hr	 p.name | From_Drug | To_Drug | Equivalence_Score "Tan Wei Ling" | "Atorvastatin" | "Ezetimibe" | 0.5 "Tan Wei Ling" | "Atorvastatin" | "Ezetimibe" | 0.5 "Tan Wei Ling" | "Lisinopril" | "Ezetimibe" | 0.125 "Tan Wei Ling" | "Lisinopril" | "Ezetimibe" | 0.125	drug switch to a clinically equivalent one which is functionally or structurally similar
3	Find cases where the **PRESCRIBED** duration for **Atorvastatin** and **Lisinopril** overlapped in time, followed by an **occurrence_date** for a **Condition_RDM** diagnosis.	• **Path**: Patient — [IS_PRESCRIBED] → Medication (Atorvastatin) AND Patient — [IS_PRESCRIBED] → Medication (Lisinopril) — [Sequence] → Condition (RDM) • **Attributes Checked**: [start_date (Med 1)], [duration_days (Med 1)], [start_date (Med 2)], [duration_days (Med 2)], [occurrence_date (Diagnosis)]	**Patient:** Rajendran **Drugs:** Lisinopril and Atorvastatin, injury occurred exactly 14 days after the second drug was added	 Patient | ACE_Inhibitor | Statin | Injury_Date | ACE_Start | Statin_Start "Rajendran s/o Muthu" | "Lisinopril" | "Atorvastatin" | 2024-04-15 | 2024-01-15 | 2024-04-01	Shows drug overlap window, currently just native query filter and match
4	Across the entire population, what is the incidence rate of RDM within 30 days of a patient being on a high-risk co-exposure (any ACE Inhibitor + any Statin), and does a history of Hypertension significantly accelerate the time-to-injury? *Modified from "Sample Query" slide*	• **Path**: Condition (Hypertension) ← [HAS_HISTORY] — Patient — [IS_PRESCRIBED] → (Med 1 + Med 2) — [IS_DIAGNOSED_WITH] → Condition (RDM) • **Attributes Checked**: [occurrence_date (Hypertension)], [start_date (Meds)], [occurrence_date (RDM)], [time_to_injury gap]	summary of the drug-drug interaction (DDI) risk Patient count + drug combo	 Drug_Combination | Patient_Count | Avg_Days_to_Injury | Patients_With_Hypertension "Lisinopril + Atorvastatin" | 1 | 14.0 | 1 "Atorvastatin + Lisinopril" | 1 | 14.0 | 1	GDS finds patients on drugs equivalent to the high risk pair Currently only Rajendran matches

5	Identifies patients who haven't been diagnosed with RDM yet, but whose clinical profile (conditions and history) is highly similar to patients who have been diagnosed *Condition match*	• **Path**: Patient (Diagnosed Case) — [IS_DIAGNOSED_WITH] → Condition ← [IS_DIAGNOSED_WITH] — Patient (Not Yet Diagnosed) • **Attributes Checked**: [Jaccard similarity score], [clinical_summary (for profile matching)], [age], [gender]	Condition combo + patient match % + shared conditions	 High_Risk_Patient | Clinical_Twin_With_Injury | Match_Score | Shared_Conditions 0 "Priya Devi" | "Rajendran s/o Muthu" | 1.0 | ["Hypertension", "Rhabdomyolysis"] 1 "Rajendran s/o Muthu" | "Priya Devi" | 1.0 | ["Hypertension", "Rhabdomyolysis"] 2 "Chloe de Souza" | "Rajendran s/o Muthu" | 0.5 | ["Hypertension"] 3 "David Lim" | "Rajendran s/o Muthu" | 0.5 | ["Hypertension"]	Using Rajendran as base to compare
6	Identify patients who share a clinical profile with known injury cases and are currently exposed to high-risk polypharmacy, but have not yet manifested RDM *Patients at risk of RDM*	• **Path**: Patient (Candidate) — [GDS Similarity] → Patient (Case) AND Patient (Candidate) — [IS_PRESCRIBED] → Multiple Medications • **Attributes Checked**: [similarity score], [start_date (active prescriptions)], [duration_days], [clinical_summary (absence of RDM keywords)]	Patient + Risk summary % + flag Tan Wei Ling flagged as critical	 Patient | Clinical_Similarity | Medication_Risk | Overall_Risk | Category 0 "Tan Wei Ling" | 0.5 | 0.5625 | 0.5375 | "CRITICAL" 1 "Chloe de Souza" | 0.5 | 0.125 | 0.275 | "HIGH" 2 "David Lim" | 0.5 | 0.125 | 0.275 | "HIGH"	Combines and weights Case 4&5