

Lampiran I

Nota Dinas Staf Ahli Bidang Peraturan
dan Penegakan Hukum Pajak

Nomor : ND-39/SA.1/2022

Tanggal : 26 Juli 2022

USE-CASE		Entity Resolution Fraud Detection		For	Ministry of Finance		
Syllabus for Workshop							
No	Topics	Sub-topics	Content	Time	Date	Duration	
1	Neo4j Fundamentals	Graph Thinking	The Seven Bridges	10.00 - 10.30		30 minutes	
			Graph Elements				
			Graph Structure				
			Graph Are Everywhere				
		Property Graphs	What is Property Graph?				
			Native Graph Advantage				
		Non-graph Database to Graph					
	Review			10.30 - 10.45		15 minutes	
2	Cypher Fundamentals	Reading data from Neo4j	Introduction to Cypher	10.45 - 11.15	02/08/2022	30 minutes	
			Retrieving Nodes				
			Traversing Relationships				
			Finding Specific Node				
		Writing data to Neo4j	Creating Nodes	11.15 - 11.45		30 minutes	
			Creating Relationships				
	Updating Properties						
		Deleting Nodes/Relationships					
		Review		11.45 - 12.00		15 minutes	
		BREAK		12.00 - 13.00		60 minutes	
3	Graph Data Modeling Fundamentals	Starting	What is Graph Data Modeling	13.00 - 13.10		10 minutes	
			The Domain				
			Purpose of the Model				
		Modeling Nodes	Modeling Nodes	13.10 - 13.25		15 minutes	
		Modeling Relationship	Modeling Relationship	13.25 - 13.40		15 minutes	
		Testing Models	Testing	13.40 - 13.55		15 minutes	
		Refractoring Graph	Refractoring	13.55 - 14.25		30 minutes	
			Labels in the Graph				
	Retesting After Refractoring						
		Review		14.25 - 14.40		15 minutes	
4	Importing Data to Neo4j	Importing CSV data	Import CSV Data	10.00 - 10.15	02/08/2022	15 minutes	
		Importing API data	Import API Data	10.15 - 10.30		15 minutes	
		Import: RDBMS to Graph	Import Data from Relational Database	10.30 - 11.00		30 minutes	
	Review			11.00 - 11.30		30 minutes	
5	Neo4j Graph Data Science	GDS Overview	GDS Product Overview	13.00 - 13.15			15 minutes
			How GDS Works				
		Graph Management	Graph Catalog	13.15 - 13.45			30 minutes
			Native Projections				
		Graph Algorithms	Cypher Projections	13.45 - 15.00			75 minutes
			Algorithm Tiers and Execution Modes				
		Centrality and Importance					
		Path Finding					
		BREAK		15.00 - 16.00		60 minutes	
5	Neo4j Graph Data Science		Community Detection	16.00 - 17.00		60 minutes	
			Node Embedding				
			Similarity				
6	Use-case	Entity Resolution	Based on sample data for use-case	10.00 - 17.00	03/08/2022	5 hours	
		Fraud Detection	Based on sample data for use-case	10.00 - 17.00	04/08/2022	5 hours	

