Project Milestone-- Data Ingestion Software-- Kafka Clusters

What is EDA? What are its advantages and disadvantages?

EDA (event driven architecture) is a software architecture where it detects an event and shows the event as a message

Advantages: high response reactions, detects events, shows cause of failure

Disadvantages: loosely coupled events

In Kafka, what's meant by cluster, broker, topic, replica, partition, zookeeper, controller, leader, consumer, producer, and consumer group?

Cluster: more than one broker running kafka

Broker: a server that allows a consumers to retrieve message by topic,partition, and offset

Topic: helps organize messages by placing them in different categories of your choosing

Replica: multiple copies of the data across multiple brokers

Partition: divides topics so that it lowers storage space

Zookeeper: checks the status of nodes and helps maintain the topic and message

Controller: helps manage the states of the partitions and replicas

Leader: handles all read and write request for the partition

Consumer: reads and process topics

Producer: writes events into kafka

Consumer group: multiple groups of consumers that read a topic once

https://drive.google.com/drive/folders/1X_HRX9eKFvIHQaF7QJHdUUJqrqqWaaeg?usp=sharing