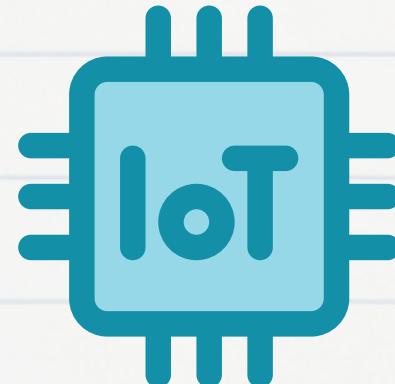


Bonus-Project

Stream Data Processing



SCENARIO



GENERATE FAKE DATA

GENERATE FAKE DATA
TO KINESIS

LAMBDA KINESIS
TO DYNAMODB/CONVERTED

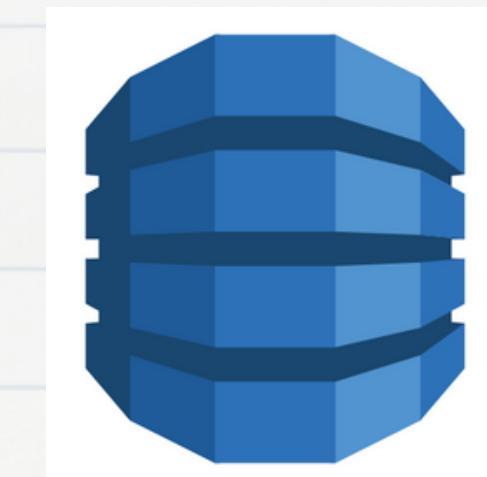
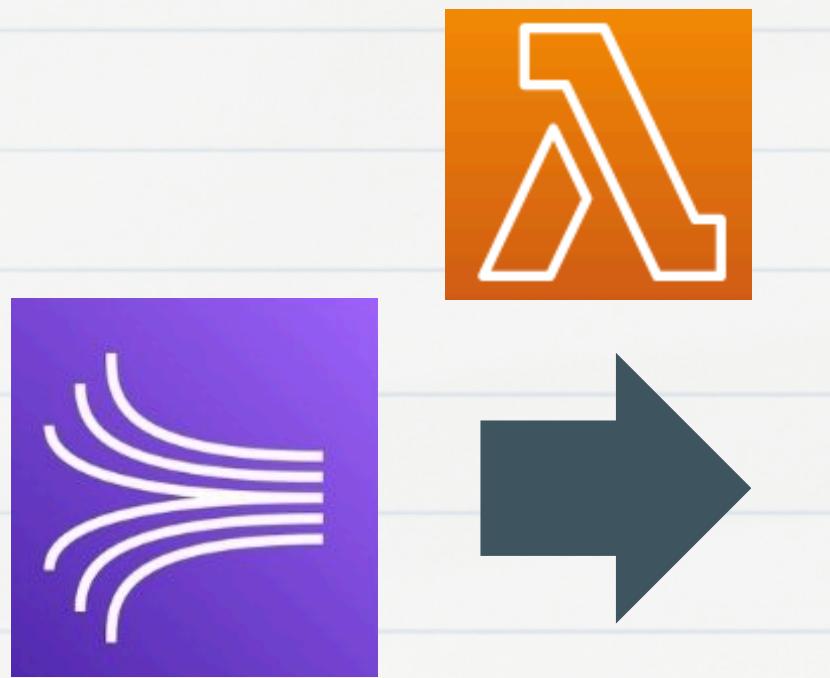


TABLE1

LAMBDA DYNAMODB
STREAM TO ARCHIVE

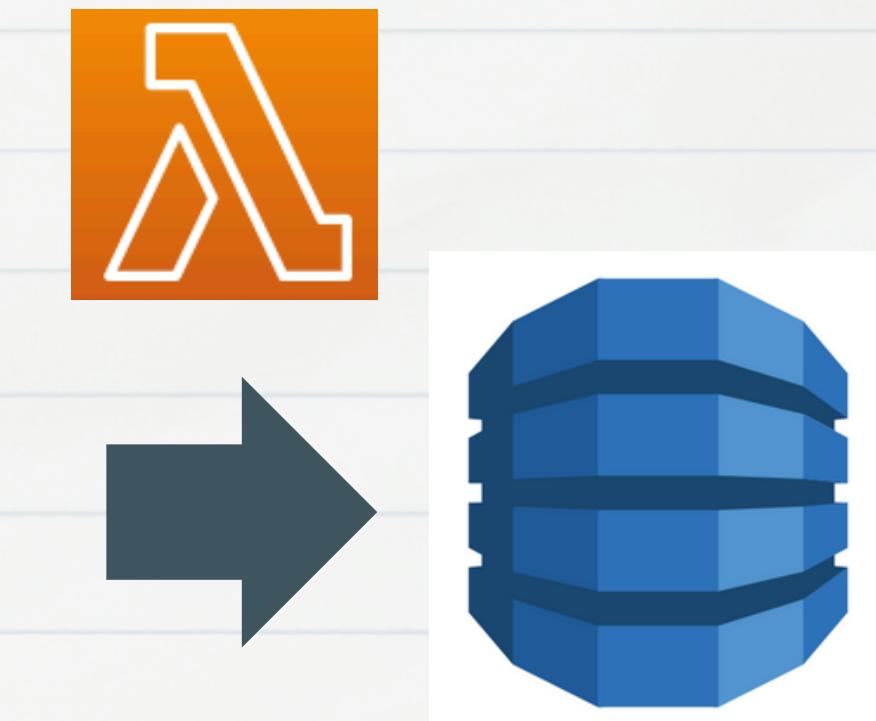


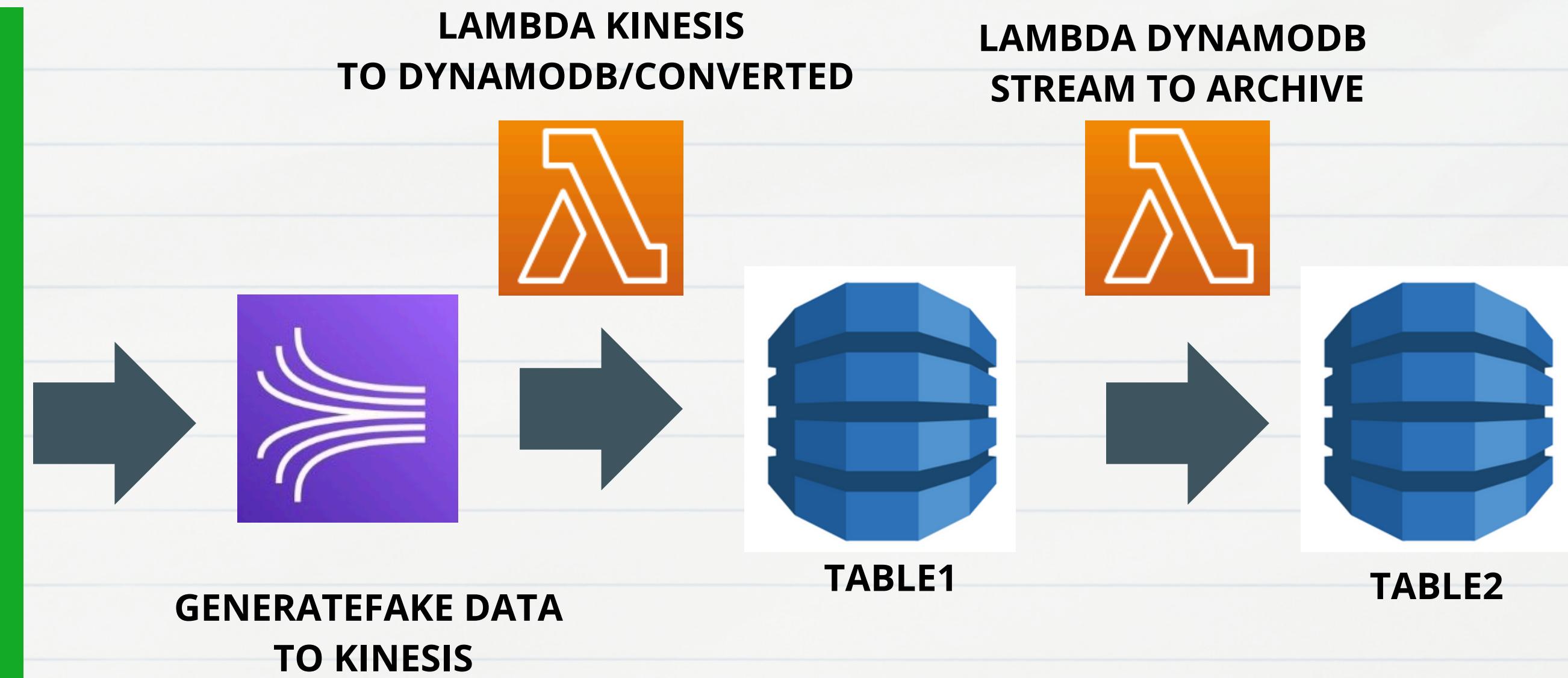
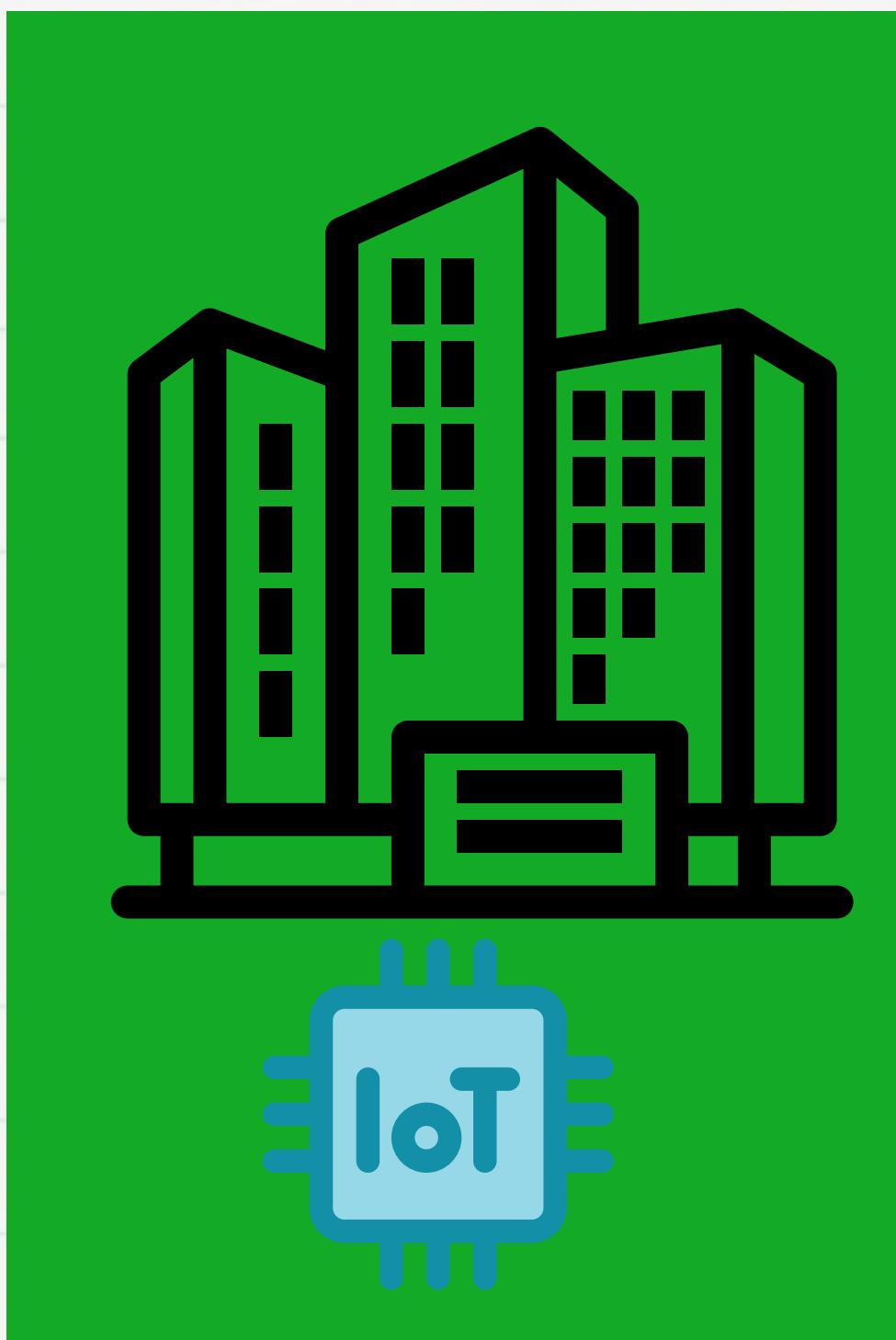
TABLE2

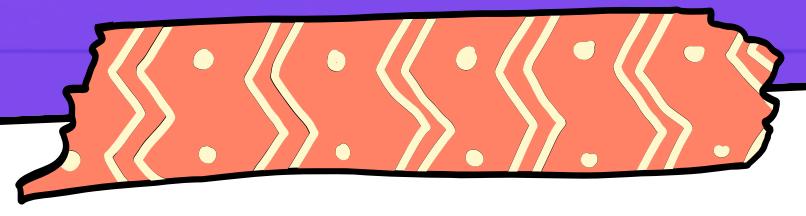
Generate Fake Data



Part 1 (Create Fake Generator)

1) Write code for “Generate Fake Data”



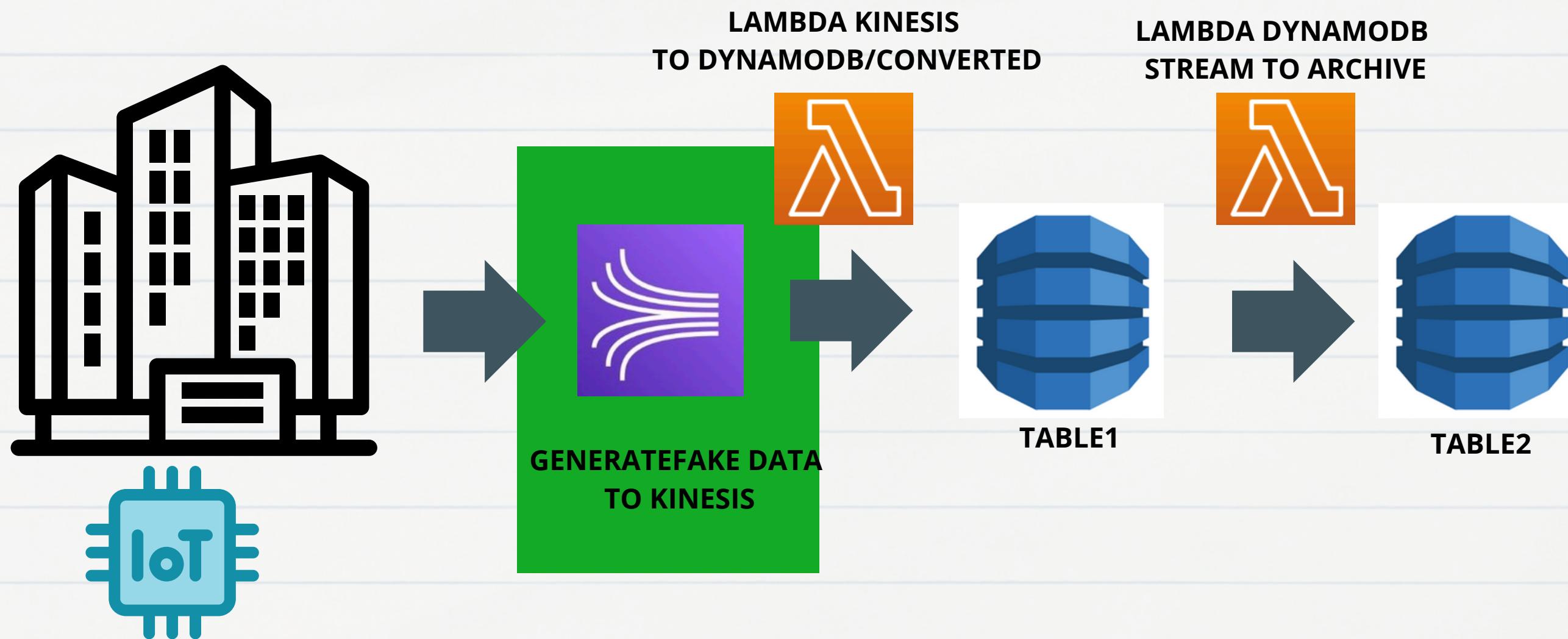


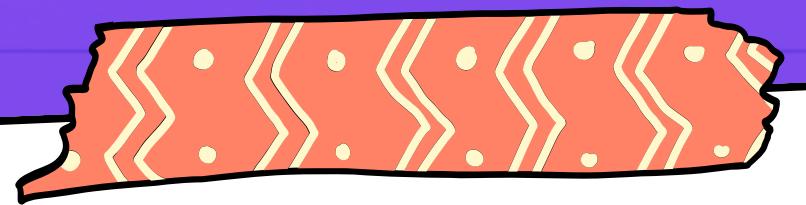
Generate Fake Data to Kinesis



Part 1 (Prepare Kinesis and Finish Fake Generator)

- 1) Create Kinesis
- 2) Continue finishing “Generate Fake Data”





Lambda Kinesis to DynamoDB

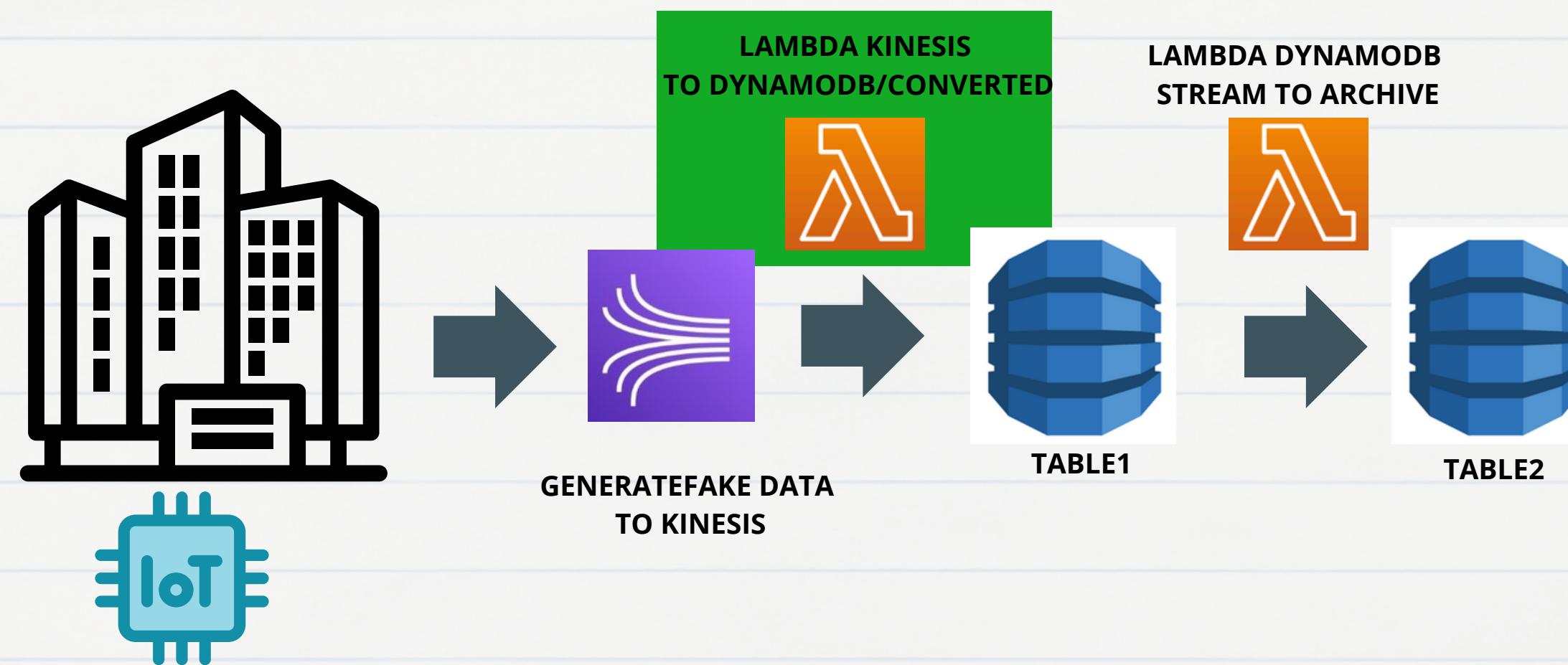


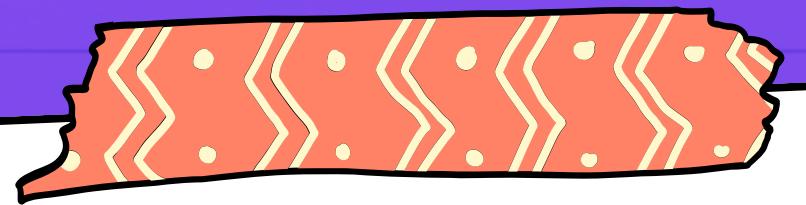
Part 1 (Prepare Lambda and DynamoDB)

- 1) Create Lambda to handle Kinesis
- 2)(IAM : “LambdaKinesis”, Inline Policy : DynamoDB -> “WriteBatch”)
- 3)Create DynamoDB Table1

Part 2 (Lambda Kinesis to DynamoDB)

- 1) Write Lambda Coding and Test





Lambda Kinesis to DynamoDB Converted

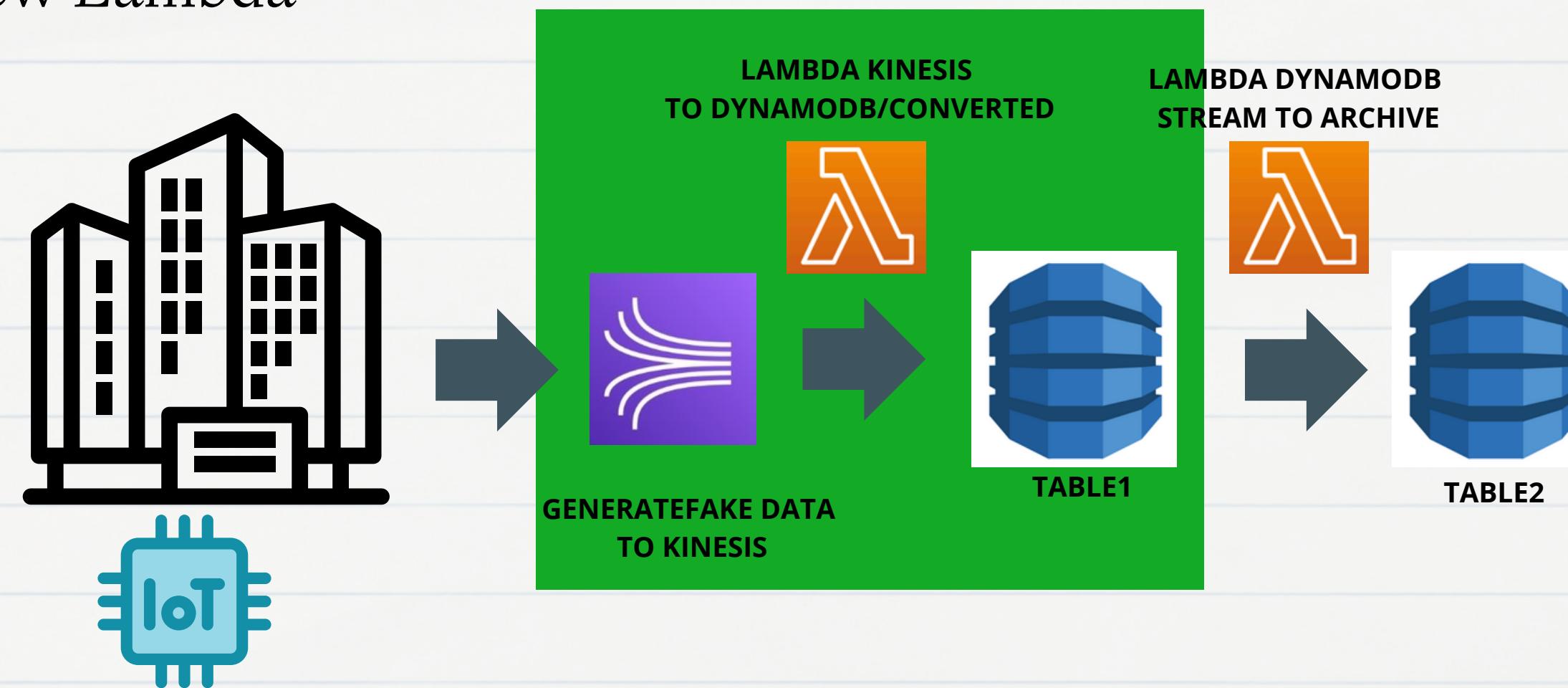


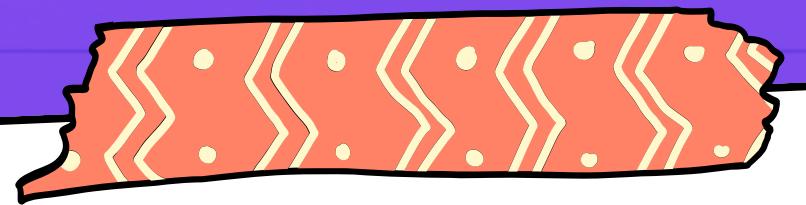
Part 1 (Understand Kinesis Data)

1) Understanding Event form Kinesis and Turn data to be readable

Part 2 (Test Kinesis to Dynamodb)

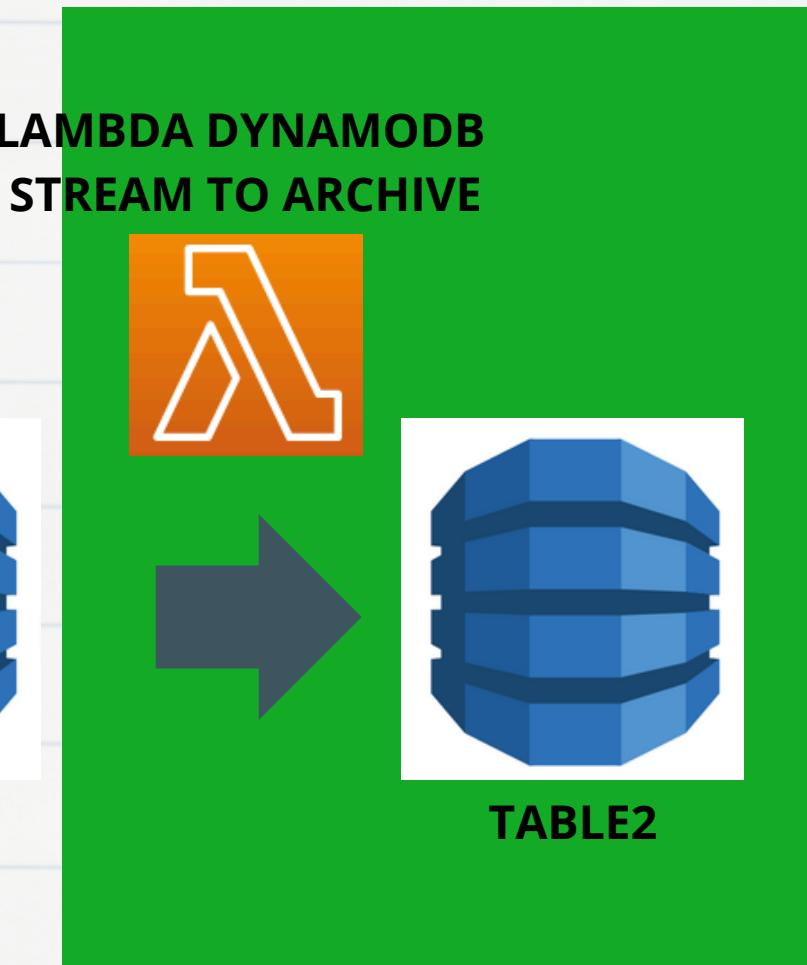
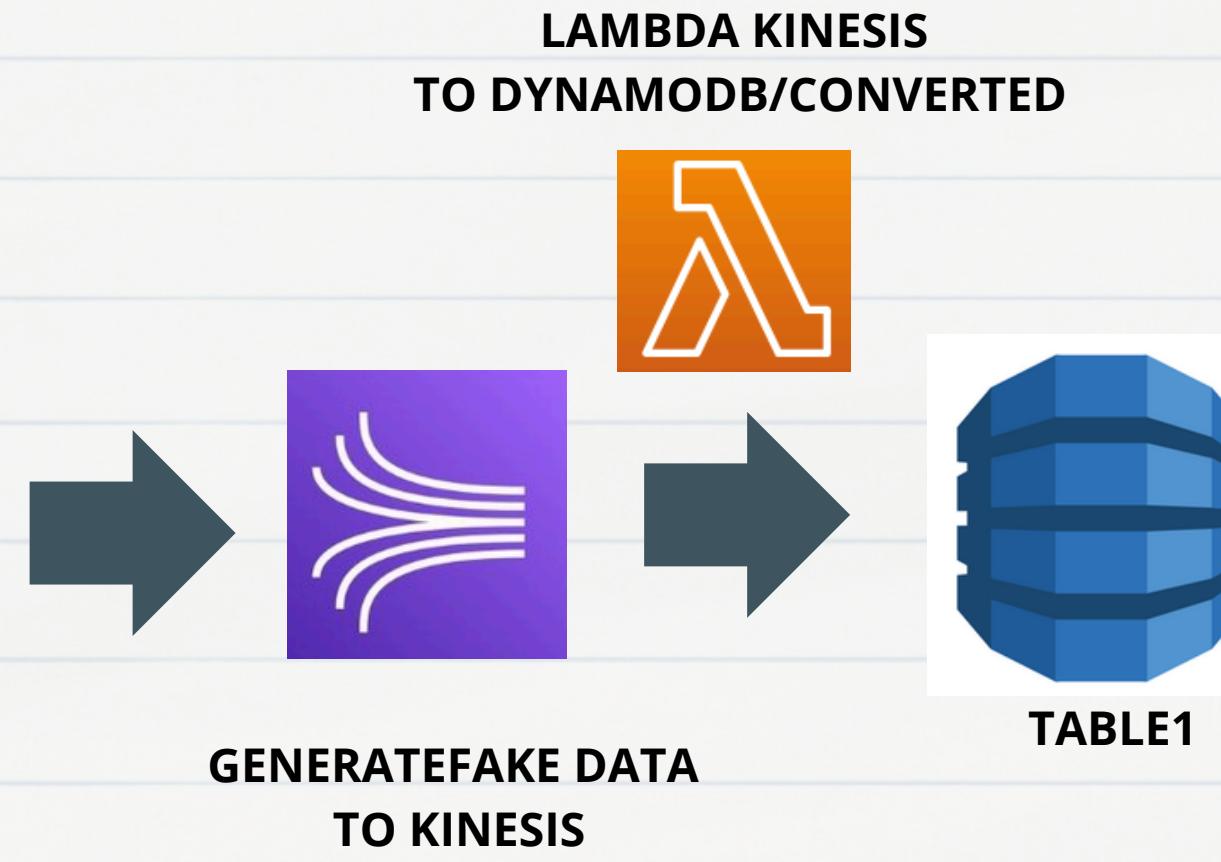
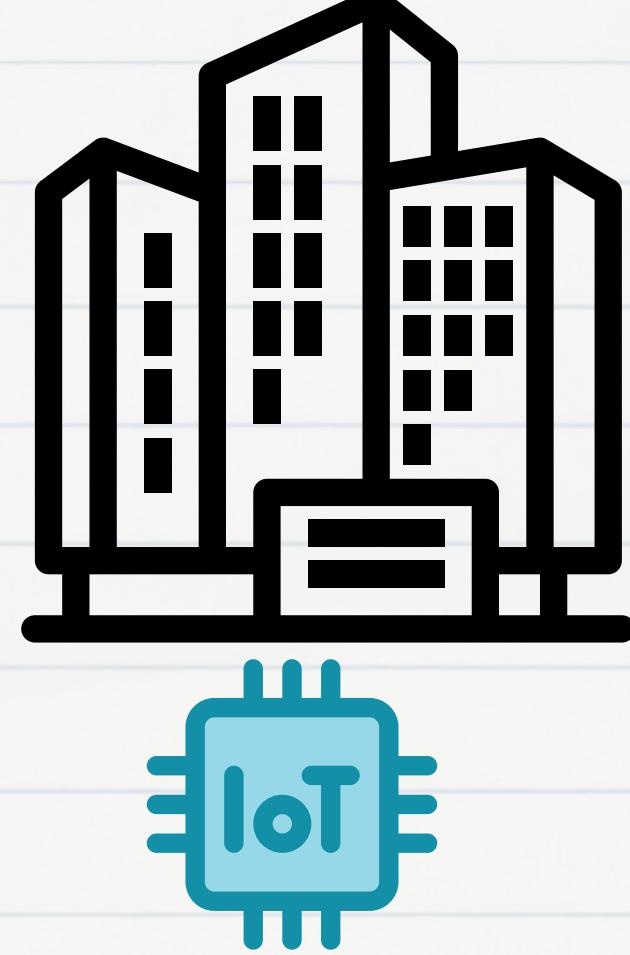
2) Apply new Lambda





Lambda DynamoDB Stream to Archive





Part 1 (Handle DynamoDB Streaming)

- 1) Create new table for archive data
- 2) Enable DynamoDB Stream in Table1 and add trigger for new Lambda Function
- 3) New Lambda Function -> (IAM : DynamoDB
 Inline Policy Read[“DescribeStream”, “GetRecords”, “ListStream”, “Get ShardIterator”],
 Inline Policy Write[“PutItem”]
- 4) Finish adding trigger

Part 2 (Understand, DynamoDB Streaming)

- 1) Try to insert, modify and remove and see the logs

Part 3 (Write Code to Handle The Event)

- 1) Write new lambda code to Handle The Event remove event and apply some remove

Part 4 (TTL)

- 1) Using Expire attributing and TTL