The Solution for Caladan

Nathan Chang, Penny Lin, Sachiel Chuckrow, Tai Ahmad

“What are the most unrestrictive policies we can implement to keep the growth rate of deaths below 1% and the growth rate of new cases below 3% on a *30-day rolling average?”

Solution

C1 School Closing : 2 - require closing (only some levels or categories, for example, just high school, or just public schools)

C2 Workplace Closing: 2 - require closing (or work from home) for some sectors or categories of workers

C3 Cancel Public Event: 2 - require canceling of public events

C4 Restrictions On Gathering: 3 - restrictions on gatherings between 11-100 people

Solution

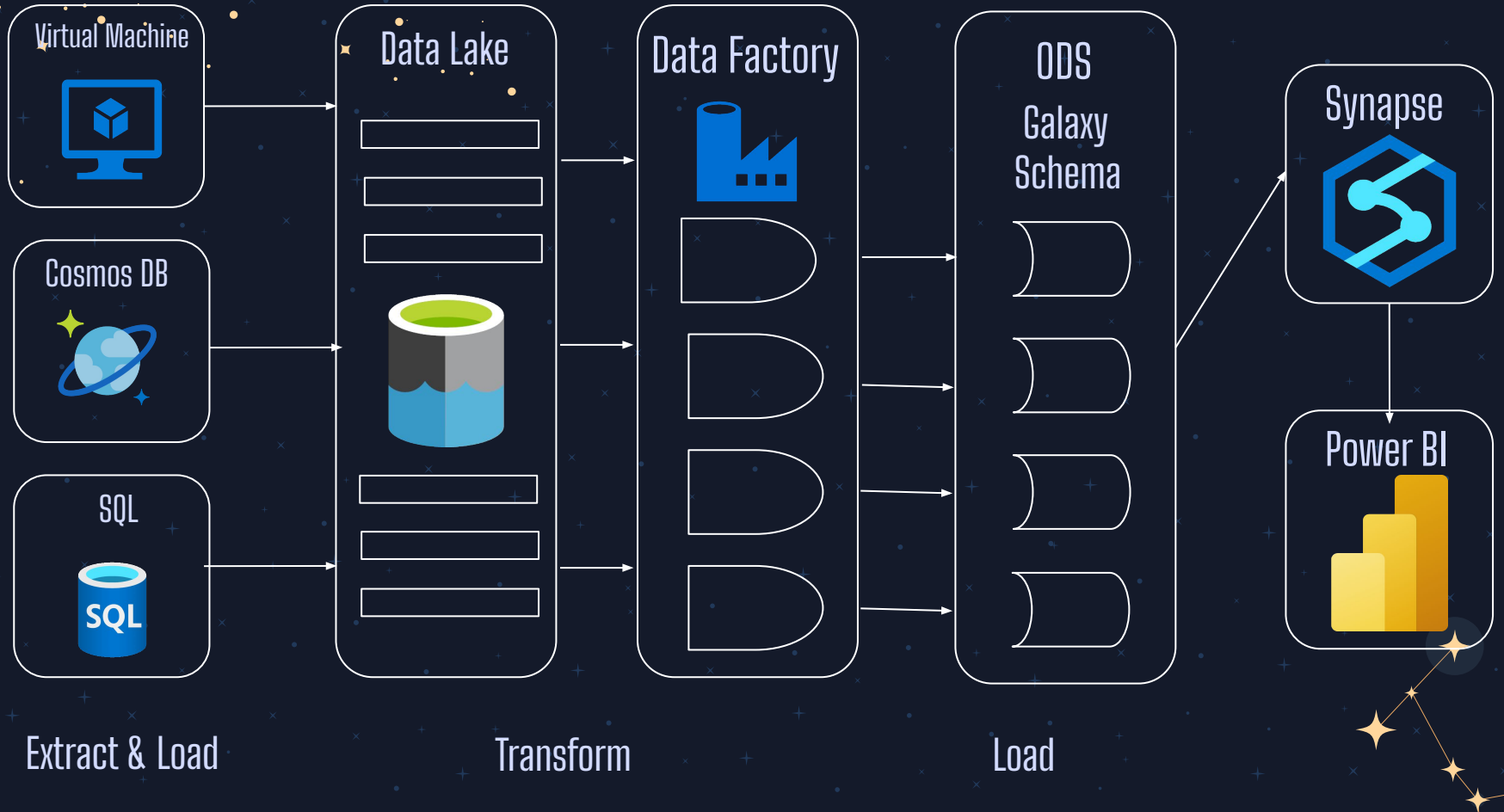
C5 Close Public Transport: 0 Likely, although can vary based on Caladan’s specific circumstances

C6 Stay At Home Requirement: 1 - recommend not leaving house

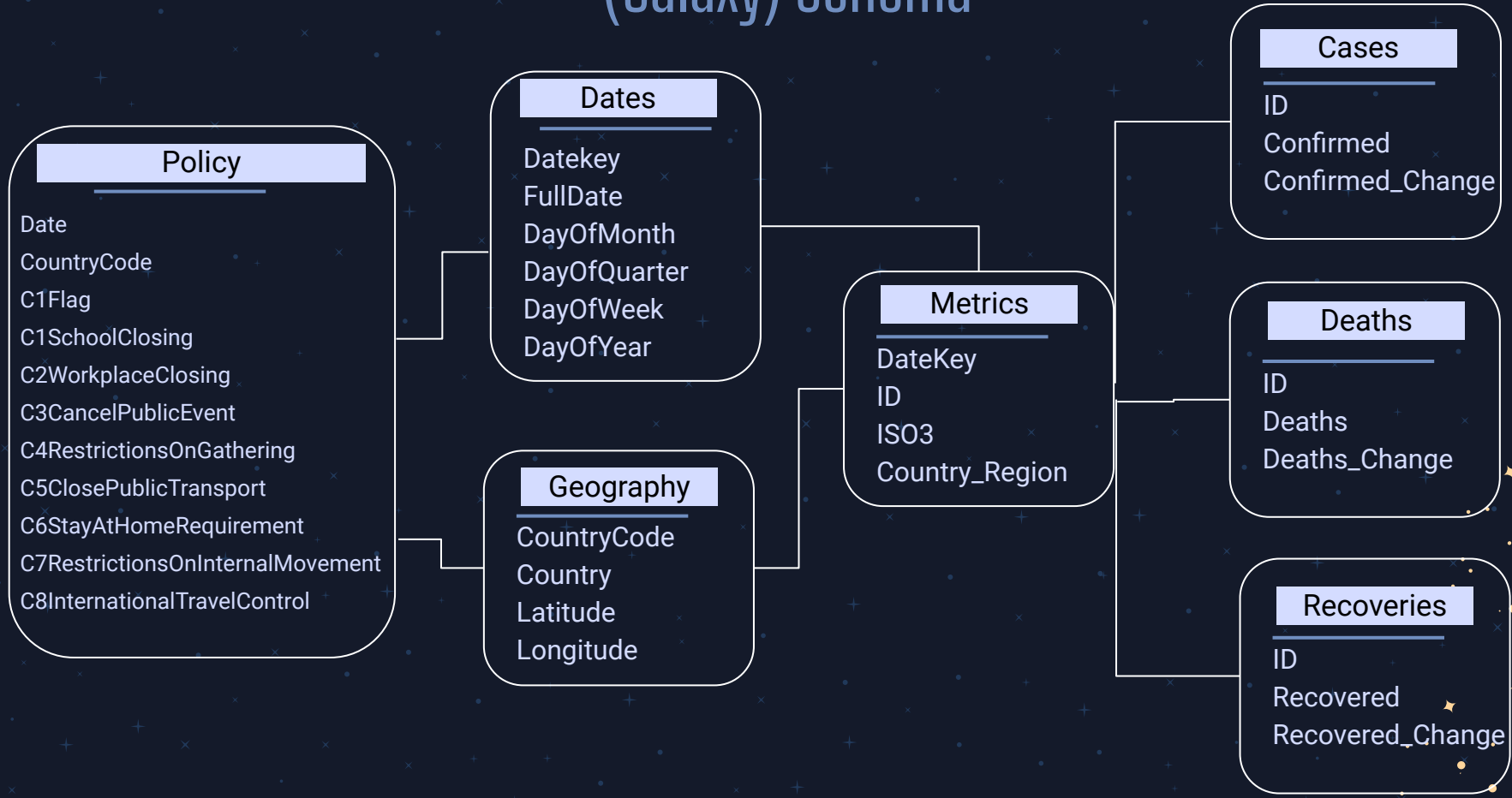
C7 Restrictions On Internal Movement: 1- recommend not to travel between regions/cities

C8 International Travel Control: 3 - ban arrivals from some regions

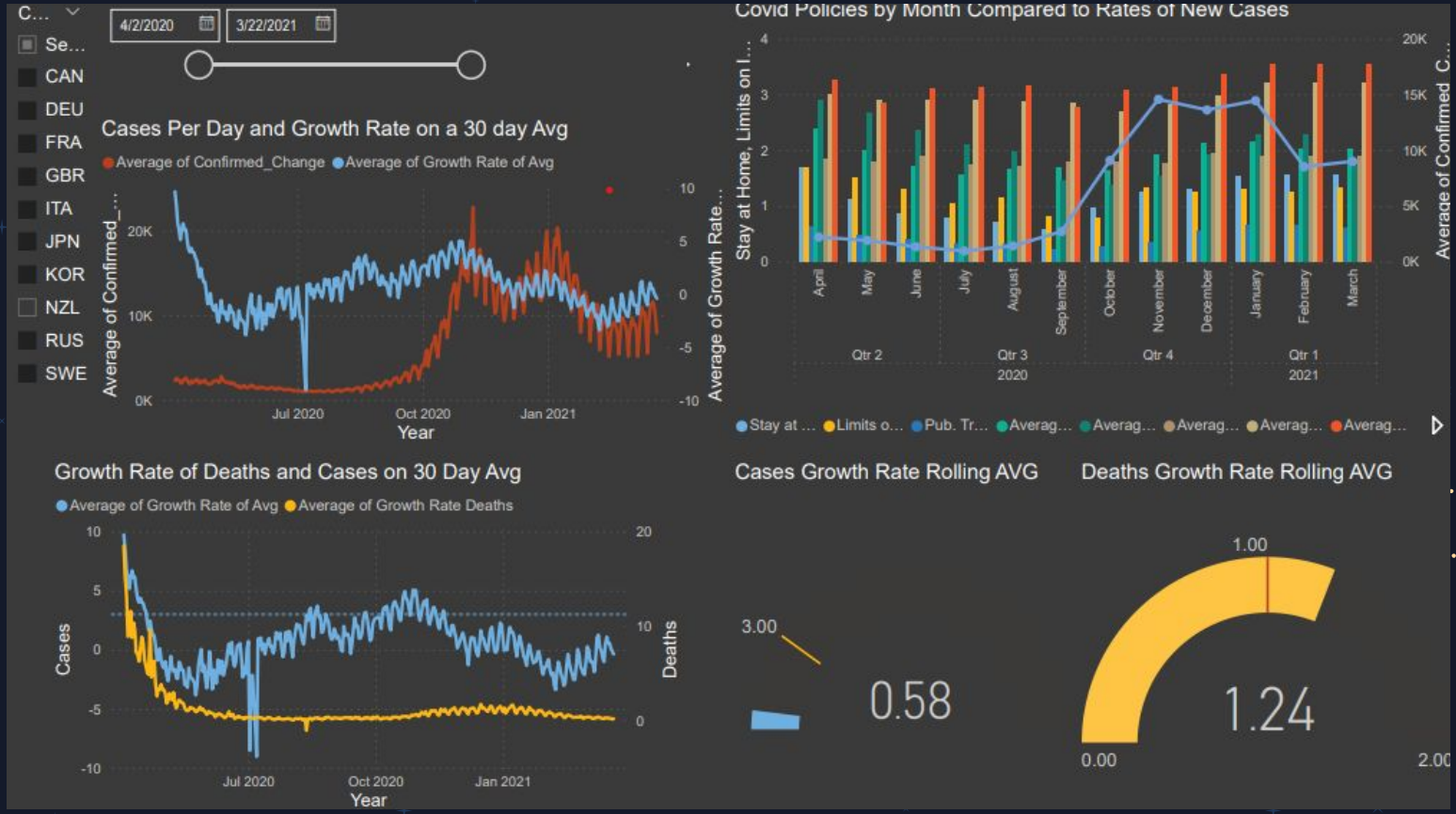
Procedure


Virtual Machine
Cosmos DB
SQL
SQL
Data Lake
Data Factory
ODS
Galaxy
Schema
Synapse
Power BI
Extract & Load
Transform
Load

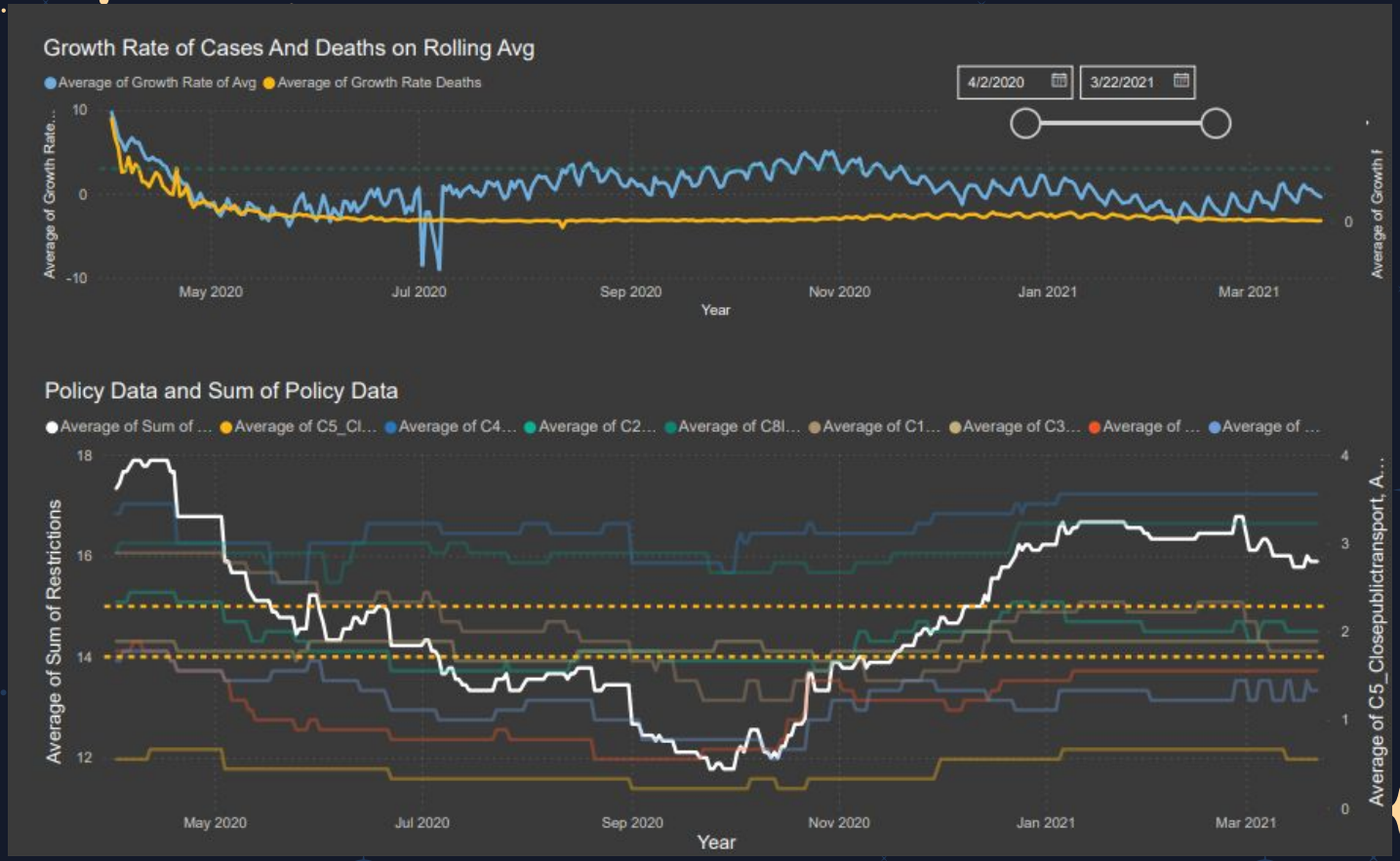
(Galaxy) Schema



Statistical Thought Process



Statistical Thought Process



Thank You!