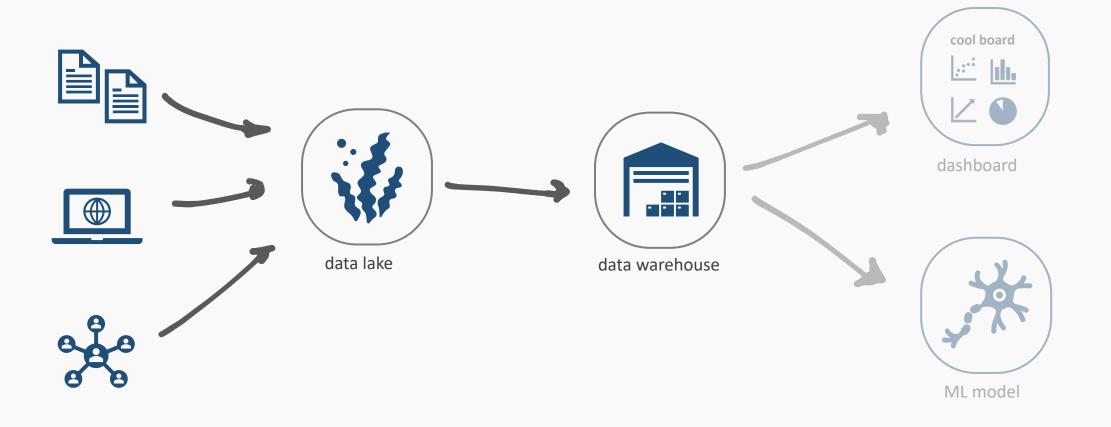
kokchun giang

put your tasks in directed acyclic graphs (DAGs) in airflow to create data pipelines

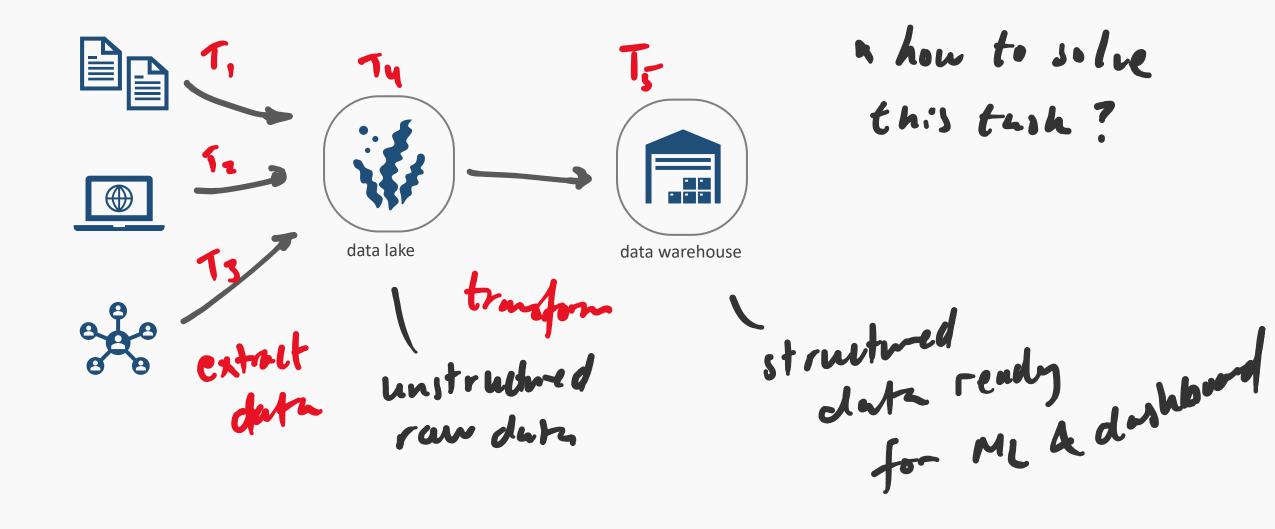


let's take a look at a data pipeline

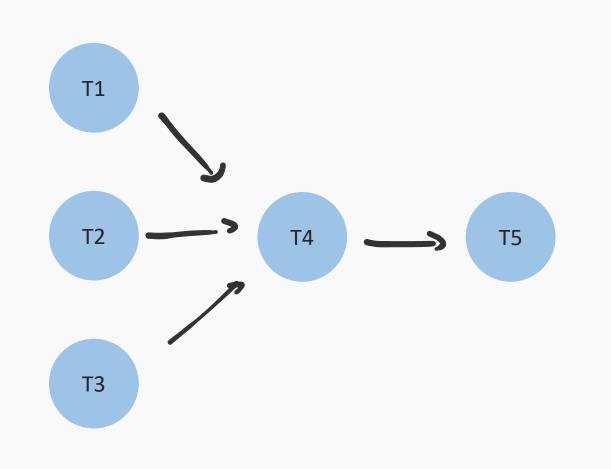


different data sources

let's take a look at a data pipeline

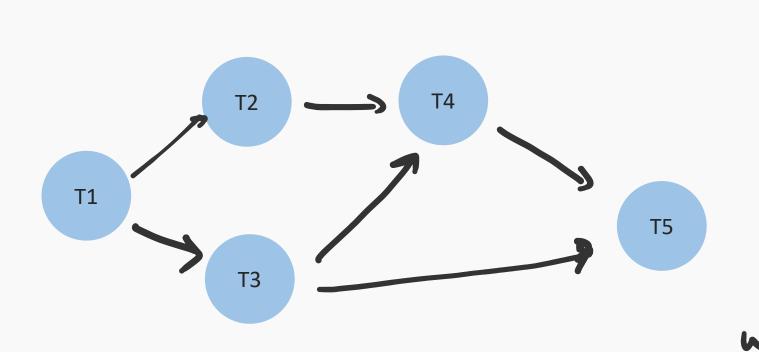


use **cron** scheduling to solve it?



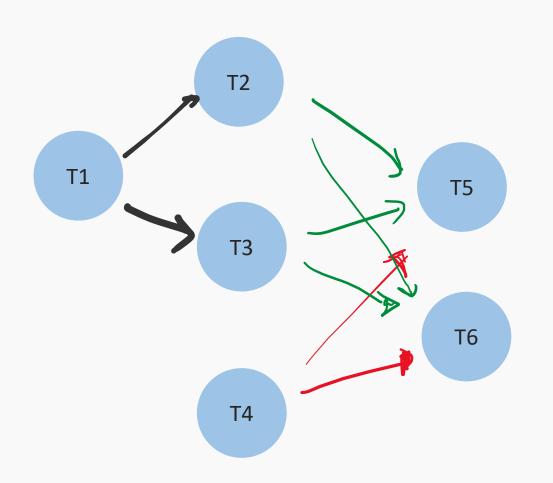
a naive solution: 5 scripts Tings x use cron to schedule all scripts with th interval

how about when we have dependencies?



a so Ty waits. * To waits for To ATy « can we schedule this

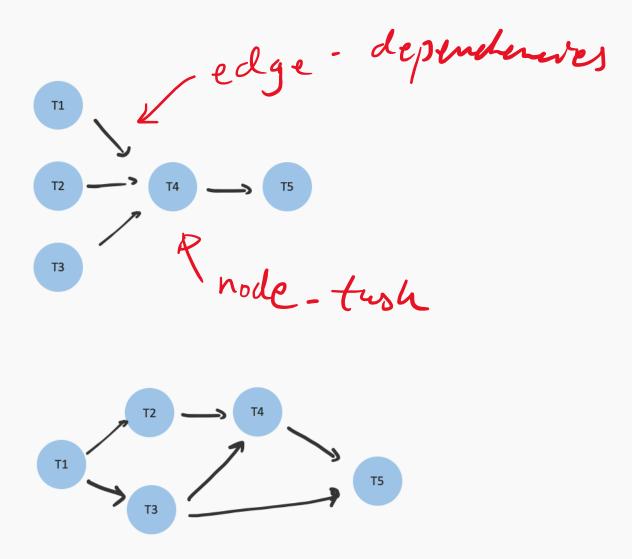
some more examples when **cron** is not enough

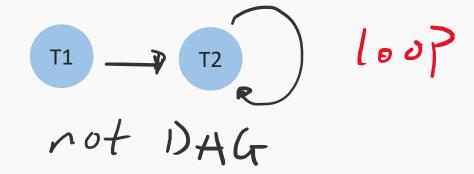


T5 should run when at least two of previous was successful

T5 should run when at least one of upstream succeeds, e.g. T6 is an email/discord/slack notification when some upstream tasks fails

what are **DAGs**







what are **DAGs**

Directed H tashs of 1 apotream 1 1 downstrem

Acyclic tashs no dependency to itself, Ino loops

Graphs relationship betw. tashs by nodes A vertices

DAGs are data pipelines with collection of tasks and relationsships between tasks

orchestrate workflows with airflow

coordination and management of multiple tasks

define a task (unit of work)



tasks organized in DAGs



schedule the execution of tasks



upstream/downstream dependency

monitor progress in Airflow UI



integrate with 🔔 other tools

