Class Notes April 27, 2020

DAG is a workflow Nodes - tasks Edges - dependencies

Represented in standard Python file (airflow DAGs folder)

Unit of work is executed a single operator operator = single task (most are atomic)

Sometimes state needs to be shared, most of the time can run independently

t1 >> t2 means t1 runs before t2

Trigger rule = conditions when a task can run

Scheduler is the brain of the operation Parses DAGs, sends to workers, coordinates with metadata repository, etc.

airflow list_dags
airflow list_tasks <dag> --treee
airflow test <dag_name> <task_name> <yyyy-mm-dd>
airflow backfill <dag_name> -s <yyyy-mm-dd> -e <yyyy-mm-dd>
airflow clear <dag_name> -s <yyyy-mm-dd> -e <yyyy-mm-dd>

Setup instructions on wiki.

Make sure to activate venv!

country1.py

Very simple

Two BashOperators -> all we need create table dependent on create dataset EVERY Airflow DAG must have start date!

Arbitrary in this case

Commands in exactly the same form as on BQ console

Move into dags folder

Won't run otherwise

Tasks fail. We want to backfill without corrupting the rest of the data

Life of a data engineer (a hah)

can branch things so they run in parallel branch >>

branch >>