# Big Data Infrastructure Final Assignment

Barcelona Technology School

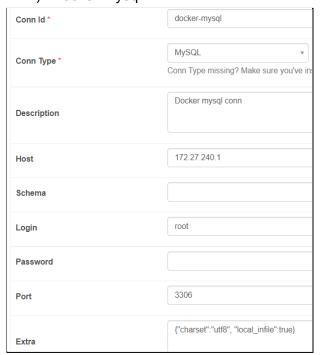
Roberto Arenal Khaldoun Al-Naierat

# **Airflow Connections**

## 1) Docker-postgress



## 2) Docker-mysql



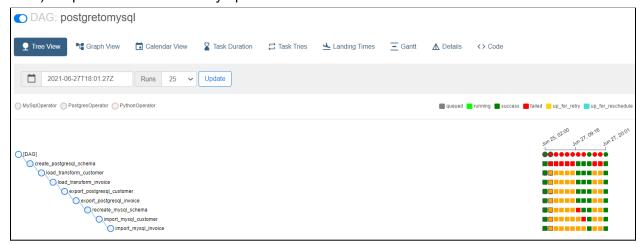
## 3) Docker-mongo

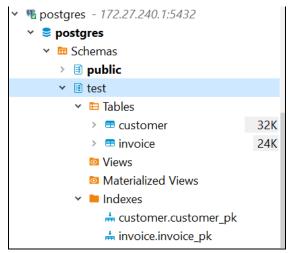


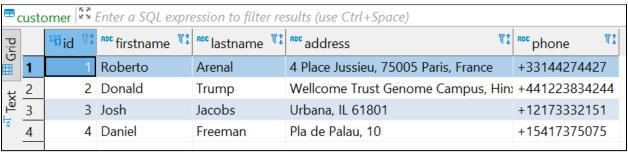
# DAG 1- Moving from Postgres to MySql

#### Steps:

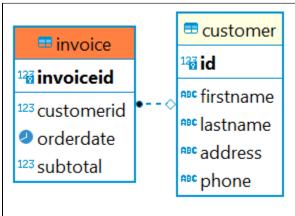
- 1) Create postgres schema
- 2) Load customer table to postgres
- 3) Load invoice table to postgres
- 4) Export customer table as csv
- 5) Export invoice table as csv
- 6) Recreate mysql schema
- 7) Import customer table to mysql
- 8) Import invoice table to mysql



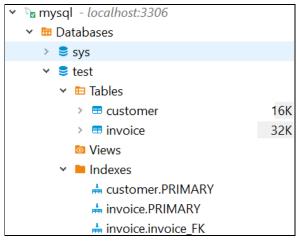


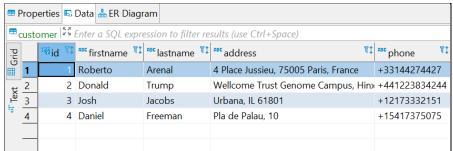


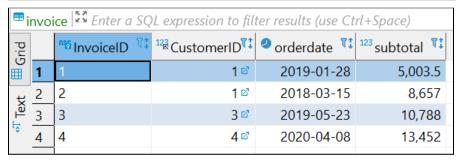


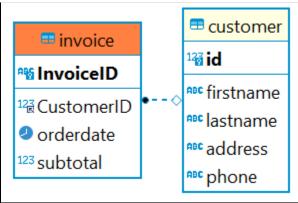


MySQL





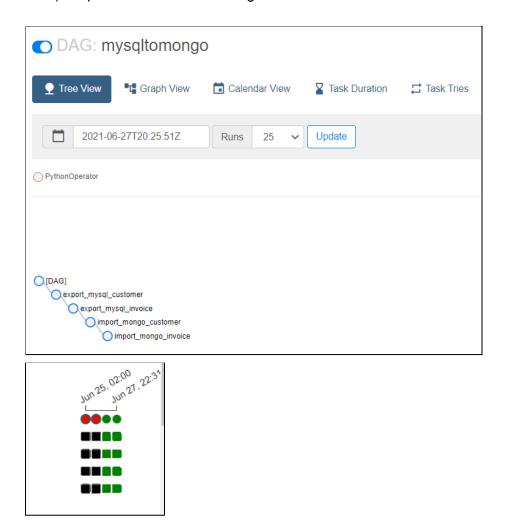




# DAG 2- Moving from MySql to MongoDB

#### Steps:

- 1) Export customer table from mysql
- 2) Export invoice table from mysql
- 3) Import Customer to mongodb
- 4) Import invoice table to mongodb



## MongoDB before running DAG



# MongoDB after running DAG

Database Name *	Storage Size	Collections	Indexes	
admin	20.0KB	0	1	
config	36.0KB	0	2	
local	20.0KB	1	1	î
test	40.0KB	2	2	

Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties	
customer	4	145.5 B	582.0 B	1	20.0 KB		
invoice	4	104.5 B	418.0 B	1	20.0 KB		

_id ObjectId		id String	finetname Stains	lastnama Stoin
	_id Objectid	id String	firstname String	lastname Strin
1	60d8e0ada31e21aab6bbb269	"1"	"Roberto"	"Arenal"
2	60d8e0ada31e21aab6bbb26a	"2"	"Donald"	"Trump"
3	60d8e0ada31e21aab6bbb26b	"3"	"Josh"	"Jacobs"
4	60d8e0ada31e21aab6bbb26c	"4"	"Daniel"	"Freeman"

A	₩ invoice						
	_id ObjectId	InvoiceID String	CustomerID String	orderdate String	subtotal		
1	60d8e0b01ba7cdc8cb117b90	"1"	"1"	"2019-01-28"	"5003.5"		
2	60d8e0b01ba7cdc8cb117b91	"2"	"1"	"2018-03-15"	"8657.0"		
3	60d8e0b01ba7cdc8cb117b92	"3"	"3"	"2019-05-23"	"10788.0		
4	60d8e0b01ba7cdc8cb117b93	"4"	"4"	"2020-04-08"	"13452.0		