Lecture Cloud Databases

Class	05_dashboard
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Materials	
Reviewed	☐
Type	

Cloud Databases

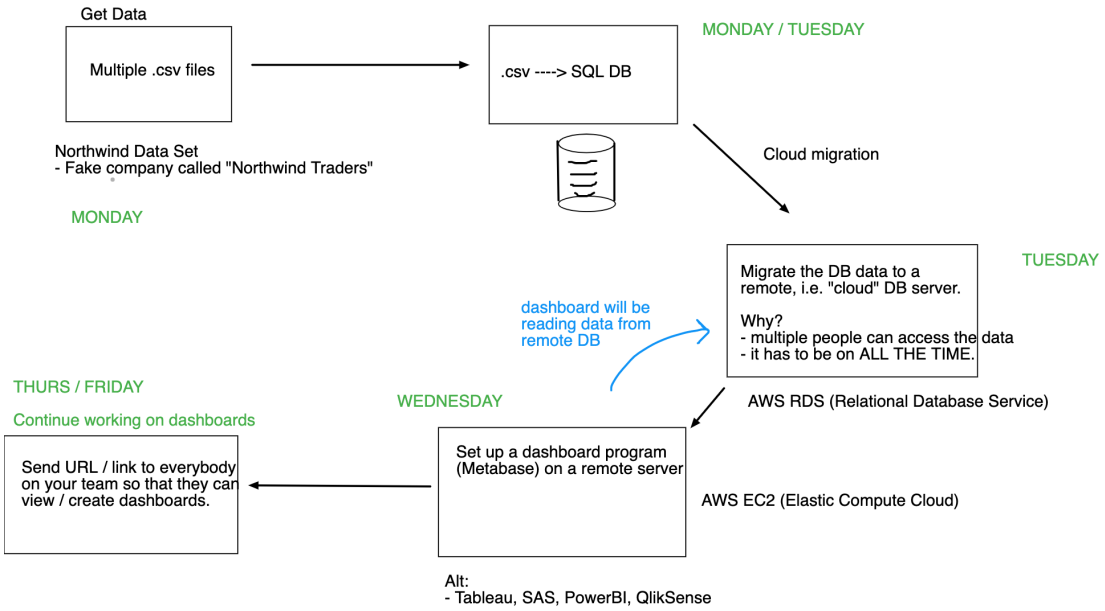
0) Warmup: Data Centers

Discuss the following questions:

- What is a data center?

  Network of computing and storage units
- Why would a company use one?
  - Don't have to build my own infrastructure
  - Scalability!
  - Include a lot of additional services
  - Online 24/7 + Accessable
  - Security
- What services would you expect a data center to provide?
  - Databases
  - Tools to set up machine learning pipelines
  - Support - Monitoring capabilities
  - Computing

1) Project Context



2) Create your own RDS Instance

Follow the challenge *"Create your own RDS instance"* in the course material.

3) Log into your own RDS (Relational Database Service)

How can we log into our RDS?

We need a client:

- psql in terminal

```
psql -h <hostname> -p 5432 -U postgres -d <databasename>
```

- dbeaver or any other GUI

We need some information:

- host - dashboard.crvv64d8bwgs.eu-central-1.rds.amazonaws.com
- port - 5432
- user name - postgres

- password - postgres
- database name - postgres

"dashboard" is the name of the Database Server we created. It comes with the default databases and we can create multiple databases on the server.

4) Data Dump

Dumping the local northwind database to a sql server:

```
pg_dump -h localhost -p 5432 -U <username> -d northwind -O > northwind.sql
```

Using the database dump to fill the remote database (the database needs to already exist)

```
psql -h <hostname> -p 5432 -U postgres -d <databasename> -f northwind.sql
```