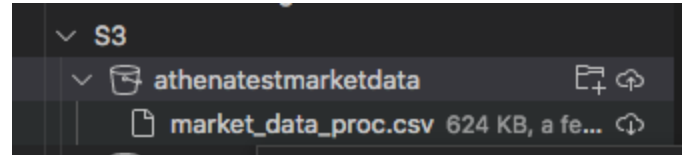


# Amazon Athena

- Amazon Athena es un servicio de consultas interactivo que facilita el análisis de datos en Amazon S3 con SQL estándar.
- Athena no tiene servidor, de manera que no es necesario administrar infraestructura y solo paga por las consultas que ejecuta.

- Añadimos ficheros csv con el mismo formato a un bucket.



- Creamos una tabla en aws athenea:


Analytics

# Amazon Athena

## Start querying data instantly.

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 and other federated data sources using standard SQL.

### How it works




### Begin querying your data

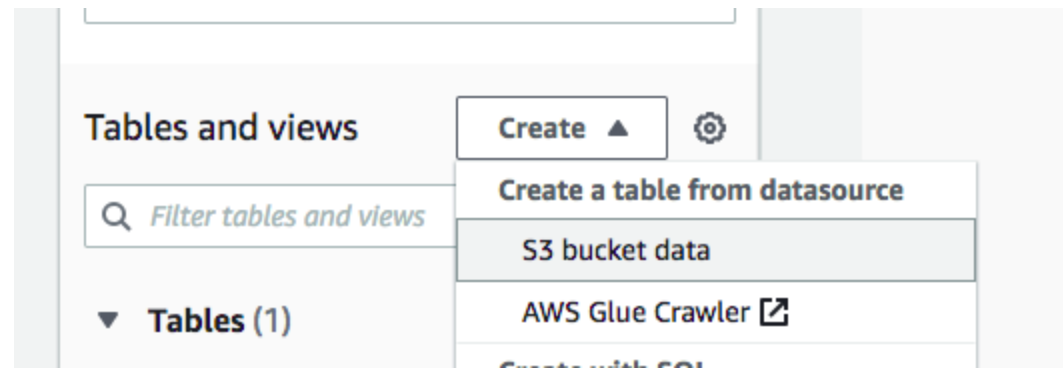
Discover the query editor and start querying right away.

[Explore the query editor](#)

### Pricing

Paris - Data scanned	\$7 per TB
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[Cost calculator](#) 



## Dataset

### Location of input data set

🔍 s3://athenatestmarketdata



View

Browse S3

Input the path to the data set you want to process on Amazon S3. For example if your data is stored at s3://input-data-set/logs/1.csv, please enter s3://input-data-set/logs/. If your data is already partitioned, e.g. s3://input-data-set/logs/year=2004/month=12/day=11/ just input the base path s3://input-data-set/logs/

### Encryption [Información](#)

Choose this option if the underlying data is encrypted in Amazon S3.

☐ Encrypted data set

## Data format

### Data format

CSV



## Column details

Column name must be single words that start with a letter or a digit. Certain advanced column types (namely, structs) are not exposed in this interface.

Column name

VALOR

Column type

string ▼

Remove

Column name

VOLUMEN

Column type

int ▼

Remove

Column name

PRECIO

Column type

float ▼

Remove

Column name

TIME

Column type

timestamp ▼

Remove

Add a column

Bulk add columns

Database

test\_db

Tables and views

Create

Filter tables and views

▼ Tables (1) < 1 >

[-] marke\_data

valor

string

volumen

int

precio

float

time

timestamp

▼ Views (0) < 1 >



SAN	1	5.41	2018-03-19 09:00:18.002
SAN	44	5.41	2018-03-19 09:00:18.002
SAN	20	5.41	2018-03-19 09:00:18.002
SAN	45	5.41	2018-03-19 09:00:18.002
SAN	40	5.41	2018-03-19 09:00:18.002
SAN	10	5.41	2018-03-19 09:00:18.002
SAN	367	5.41	2018-03-19 09:00:18.002
SAN	396	5.41	2018-03-19 09:00:18.002
SAN	223	5.41	2018-03-19 09:00:18.002

- Podemos hacer consultas desde python con pyathena.
- Se instala con:

```
pip install pyathena
```

- Necesitamos un nuevo bucket de staging.
- Podemos hacer una consulta con:

```
from pyathena import connect
import pandas as pd

conn = connect(s3_staging_dir='s3://atheneastaging', region_name='eu-west-3')
df = pd.read_sql('SELECT * FROM "test_db"."marke_data" limit 100', conn)
print(df)
```

**DEMO**