EXERCISE 1: IMPORT JSON FILE

KEY OBJECTIVES

Extract data from a file and import the data into python environment

AGENDA

20 mins

1. Import json package
2. Open file with context manager
3. Implement appropriate json function

DELIVERABLE

List of timestamps

RESOURCES

1. ga_hw_logins.json # data file
2. json package documentation
3. stackoverflow example – ‘loading-parsing-json-file- in-python’

EXERCISE 2: CONVERT STRINGS TO DATETIME

KEY OBJECTIVES

Convert strings into datetime objects

AGENDA

10 mins

1. Import datetime package
2. Build iterator (for loop)
3. Implement appropriate date time function

DELIVERABLE

List of datetime objects

RESOURCES

1. Results from Exercise 1
2. Stackoverflow example - ’converting-string-into-datetime’
3. datetime package documentation

EXERCISE 3: CREATE SQLITE DATABASE

KEY OBJECTIVES

Use python to create sqlite3 database and load data into a table

DELIVERABLE

Sqlite3 database with data table

AGENDA

30 mins

1. Import sqlite package
2. Create database file
3. Open database connection
4. Create new table
5. Insert values into table

RESOURCES

1. Results from Exercise 2
2. sqlite3 package documentation and examples

EXERCISE 4.: EXECUTE SQLITE QUERY

KEY OBJECTIVES

Execute query using python to determine date and hour with most timestamps

AGENDA

10 mins

1. Write query
2. Use sqlite package to execute query

DELIVERABLE

Peak date and hour

RESOURCES

1. Results from Exercise 3
2. sqlite3 package documentation and examples