

Propiedad Intelectual

Universidad de Granada

Breve descripción

Evaluación de Redes en Twitter

Autor

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Práctica 4

Gestión de Información en la Web

**Escuela Técnica Superior de Ingenierías Informática y de Telecomunicación**

**Máster Profesional en Ingeniería Informática**

**Curso 2020/2021**

# Resumen

Esta práctica consiste en realizar una serie de consultas a una base de datos documental en *“MongoDB”*. Se envia adjunto el código *“Python”* solución.

Los datos de origen son:

<https://raw.githubusercontent.com/manuparra/MasterCyberSec_Practice/master/datasetmongodb/SacramentocrimeJanuary2006.csv>

Para realizar la práctica es necesario instalar *“MongoDB”*, cargar el conjunto de datos en *“MongoDB”* y luego realizar las consultas siguientes:

1. **Totalizar el número de delitos por cada tipo**
2. **Franja horaria (o franjas) con más número de delitos**

Se envía adjunto el código *“Python”* solución.

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# Ejercicio 1

Para totalizar el número de delitos por cada tipo he realizado he realizado la siguiente operación:

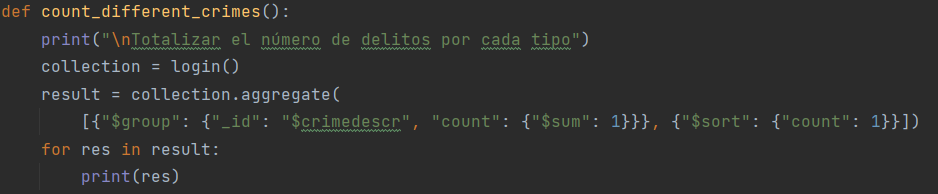


Ilustración - Código para el segundo ejercicio

Básicamente lo que hago es agrupar los delitos por su tipo con un agregado y contar cuantos hay de cada uno.

## Solución

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{'\_id': '459 PC BURGLARY BUSINESS', 'count': 135}

{'\_id': 'TRAFFIC-ACCIDENT-NON INJURY', 'count': 175}

{'\_id': 'TRAFFIC-ACCIDENT INJURY', 'count': 180}

{'\_id': '594(B)(2)(A) VANDALISM/ -$400', 'count': 195}

{'\_id': '10851 VC AUTO THEFT LOCATE', 'count': 223}

{'\_id': 'MISSING PERSON', 'count': 268}

{'\_id': '459 PC BURGLARY RESIDENCE', 'count': 356}

{'\_id': 'TOWED/STORED VEHICLE', 'count': 429}

{'\_id': 'TOWED/STORED VEH-14602.6', 'count': 453}

{'\_id': '459 PC BURGLARY VEHICLE', 'count': 461}

{'\_id': '10851(A)VC TAKE VEH W/O OWNER', 'count': 652}

# Ejercicio 2

Para mostrar las franjas horarias con más delitos he hecho lo siguiente:

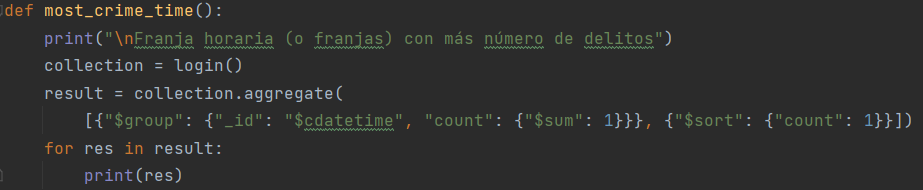


Ilustración – Código para el primer ejercicio

He almacenado solo la hora por lo que fácilmente podemos repetir el procedimiento de antes utilizando solo el digito de la hora. Si un delito se realizó entre las 00:00 y las 00:59 se almacenará en base de datos como 0, si se realizó entre las 01:00 y las 01:59 se almacenará como 1, y así hasta las 23:59.

## Solución

{'\_id': '5', 'count': 73}

{'\_id': '4', 'count': 91}

{'\_id': '6', 'count': 114}

{'\_id': '3', 'count': 122}

{'\_id': '2', 'count': 171}

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{'\_id': '9', 'count': 326}

{'\_id': '11', 'count': 338}

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{'\_id': '8', 'count': 380}

{'\_id': '22', 'count': 384}

{'\_id': '14', 'count': 385}

{'\_id': '12', 'count': 399}

{'\_id': '15', 'count': 417}

{'\_id': '18', 'count': 430}

{'\_id': '17', 'count': 458}

{'\_id': '16', 'count': 471}

{'\_id': '0', 'count': 578}