

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:

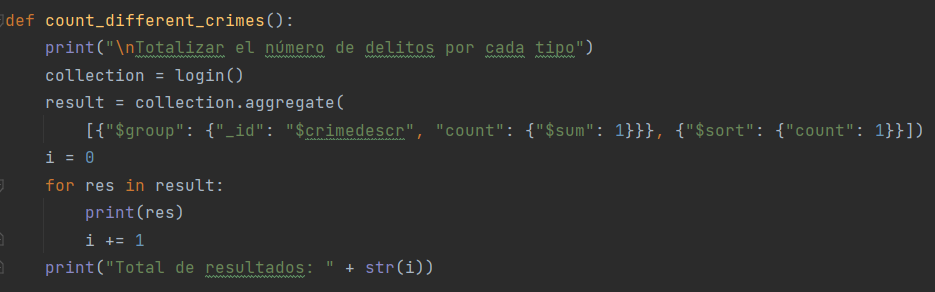


Ilustración 1 - Código para el segundo ejercicio

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

## Solución

Hay un total de 316 tipos de delitos distintos. A continuación se muestra el nombre de cada uno de ellos *“\_id”* y el número de veces que se ha repetido *“count”*.

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{'\_id': '13.10.200 SCC DUMP PUB PLACES', 'count': 1}

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{'\_id': '278.5(A)DEPRIVE RIGHT OF CUSTO', 'count': 1}

{'\_id': 'TRAFFIC ARREST FOR DA-I RPT', 'count': 1}

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{'\_id': '5.136.050 NO TAXICAB PERMIT', 'count': 1}

{'\_id': '9.44.220 SCC ANIMAL AT LARGE', 'count': 1}

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{'\_id': '148.4(A)PC TAMPER FIRE PROT EQ', 'count': 1}

{'\_id': '506 PC EMBEZZLEMENT/CONTRACTOR', 'count': 1}

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{'\_id': '496(A) PC REC STOLEN AUTO PART', 'count': 1}

{'\_id': '9.04.050C POSS OPEN CONTAINER', 'count': 1}

{'\_id': '212.5(B) ROB-VICINITY OF ATM', 'count': 1}

{'\_id': '11351 HS POSS/SALE OPIATE/NARC', 'count': 1}

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{'\_id': 'FORGERY-COUNTERFEITING', 'count': 1}

{'\_id': 'ABANDONED VEHICLE - I RPT', 'count': 1}

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{'\_id': '587C PC EVADE PAYMENT RAILFARE', 'count': 1}

{'\_id': '498(B)(5) THEFT OF ELECTRICITY', 'count': 1}

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{'\_id': '594.3(A)VANDAL/PLACE OF WORSHI', 'count': 4}

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{'\_id': '487(A) PC GRAND THEFT-SHOPLIFT', 'count': 6}

{'\_id': '14601.1(A) VC LIC SUSP OTHER', 'count': 6}

{'\_id': '484G(A)PC USE FORGED CARD', 'count': 6}

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{'\_id': '11378 HS POSS/SALE AMPHETAMINE', 'count': 9}

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{'\_id': '148(A)(1)PC RESIST PEACE OFFCR', 'count': 10}

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{'\_id': '653M(A) PC OBSCENE/THREAT CALL', 'count': 17}

{'\_id': '246 PC SHOOT OCCUP DWELL/VEH', 'count': 17}

{'\_id': '215(A) PC CARJACKING', 'count': 18}

{'\_id': '422 PC THREAT/INTENT TO TERROR', 'count': 18}

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{'\_id': '20001(A) VC HIT/RUN INJ/DEATH', 'count': 28}

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{'\_id': '211 PC ROBBERY- BUSINESS', 'count': 38}

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{'\_id': '11377(A)HS POSS AMPHETAMINES', 'count': 58}

{'\_id': '530.5 PC USE PERSONAL ID INFO', 'count': 65}

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{'\_id': 'NON INJ HR/MAIL OUT REPORT', 'count': 88}

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{'\_id': '211 PC ROBBERY UNSPECIFIED', 'count': 99}

{'\_id': '20002(A) HIT/RUN', 'count': 102}

{'\_id': '5150 WI DANGER SELF/OTHERS', 'count': 106}

{'\_id': 'CASUALTY REPORT', 'count': 116}

{'\_id': '594(B)(1)PC VANDALISM +$400', 'count': 117}

{'\_id': '484 PETTY THEFT/LICENSE PLATE', 'count': 118}

{'\_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:

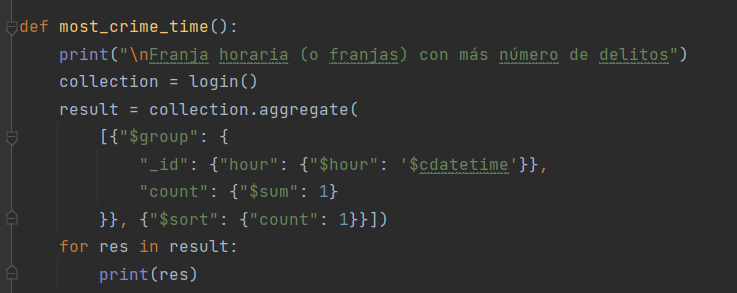


Ilustración 2 – Código para el primer ejercicio

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

La franja horaria donde más delitos se produjeron fue de 00:00 a 00:59.

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

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

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

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

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{'\_id': '20', 'count': 362}

{'\_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}