

Propiedad Intelectual

Universidad de Granada

Breve descripción

Consultas en MongoDB

Autor

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Práctica 3

Cloud Computing: Servicios y Aplicaciones

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

**Máster Profesional en Ingeniería Informática**

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# 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:

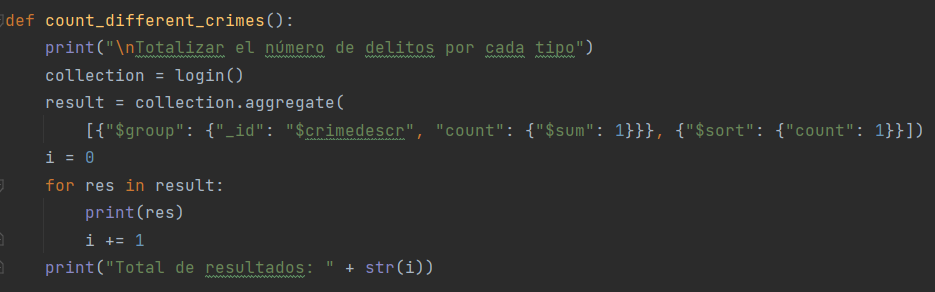


Ilustración - Código para el segundo ejercicio

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

## Solución

Hay un total de 304 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': '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}

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{'\_id': '290(A)(1)(A) FAIL REG-CHG ADD', 'count': 1}

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{'\_id': 'FORGERY-COUNTERFEITING', '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': '203 PC MAYHEM', 'count': 1}

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{'\_id': '308(B) PC MINOR POSS TOBACCO', 'count': 6}

{'\_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': '459 PC BURGLARY-UNSPECIFIED', 'count': 12}

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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': 'BURGLARY - I RPT', 'count': 21}

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{'\_id': '273.6(A) PC VIO DV COURT ORDER', 'count': 25}

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{'\_id': 'HARASSMENT - I RPT', 'count': 36}

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

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

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{'\_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:

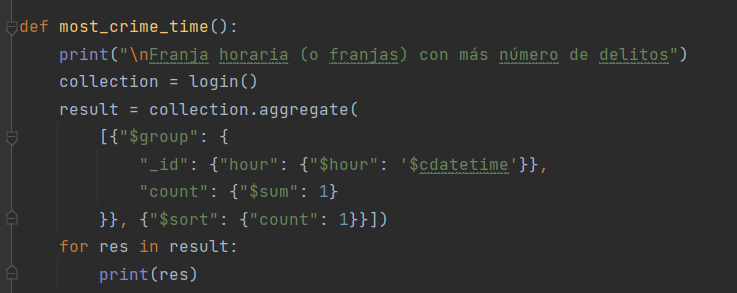


Ilustración – Código para el primer ejercicio

En el agregado restrinjo la búsqueda únicamente a la hora en el que ocurrió el incidente (aunque en base de datos se ha almacenado la hora completa). Si un delito se realizó entre las 00:00 y las 00:59 se indicará como 0, si se realizó entre las 01:00 y las 01:59 se indicará como 1, y así hasta las 23:59.

## Solución

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

Franja horaria (o franjas) con más número de delitos

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

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

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

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

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

{'\_id': {'hour': 1}, 'count': 187}

{'\_id': {'hour': 7}, 'count': 219}

{'\_id': {'hour': 23}, 'count': 304}

{'\_id': {'hour': 10}, 'count': 306}

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

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

{'\_id': {'hour': 13}, 'count': 353}

{'\_id': {'hour': 19}, 'count': 358}

{'\_id': {'hour': 21}, 'count': 358}

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

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

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

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

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

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

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

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

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

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