

## Input CSV

Chicago\_Bulk\_Test

Case_ID	Date	Crime_Type	Crime_Description	Location_Description	Geolocation	Zipcode	Rental_Price	Neighborhood_Score	City
100100	05/02/2019	OTHER OFFENSE	PAROLE VIOLATION	STREET	41.773371528,-87.66531946799999	60636	1211	307.57552999999996	Chicago
100101	05/02/2019	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT	41.81386068,-87.596642837	60615	1955	96.26703	Chicago
100102	05/02/2019	BATTERY	SIMPLE	APARTMENT	41.800802415,-87.622619343	60615	1955	96.26703	Chicago
100103	05/02/2019	ROBBERY	ARMED: HANDGUN	SIDEWALK	41.878064761,-87.74335401299999	60644	1467	349.7168	Chicago
100104	05/02/2019	BATTERY	SIMPLE	APARTMENT	41.805443345,-87.604283976	60615	1955	96.26703	Chicago

## Application logs

```
73.78.217.36 - - [03/May/2019 03:44:41] "GET /report HTTP/1.1" 200 -
73.78.217.36 - - [03/May/2019 03:44:53] "GET /report HTTP/1.1" 200 -
171.50.147.128 - - [03/May/2019 03:46:18] "GET /upload HTTP/1.1" 404 -
171.50.147.128 - - [03/May/2019 03:46:22] "GET /crimes HTTP/1.1" 404 -
171.50.147.128 - - [03/May/2019 03:46:25] "GET /crime HTTP/1.1" 200 -
171.50.147.128 - - [03/May/2019 03:46:50] "POST /crime HTTP/1.1" 200 -
171.50.147.128 - - [03/May/2019 03:49:49] "GET /crime HTTP/1.1" 200 -
171.50.147.128 - - [03/May/2019 03:53:17] "POST /crime HTTP/1.1" 200 -
171.50.147.128 - - [03/May/2019 04:07:56] "GET /crime HTTP/1.1" 200 -
```

## Kafka logs showing the records

```
mich5456@mchifala-kafka-vm:/opt/kafka$ bin/kafka-run-class.sh kafka.tools.GetOffsetShell --broker-list localhost:9092 --topic kafka_test
kafka_test:0:0
mich5456@mchifala-kafka-vm:/opt/kafka$ bin/kafka-run-class.sh kafka.tools.GetOffsetShell --broker-list localhost:9092 --topic kafka_test
kafka_test:0:5
mich5456@mchifala-kafka-vm:/opt/kafka$ bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic kafka_test --from-beginning
{"Case_ID": "100100", "Date": "05/02/2019", "Crime_Type": "OTHER OFFENSE", "Crime_Description": "PAROLE VIOLATION", "Location_Description": "STREET", "Geolocation": "41.773371528,-87.66531946799999", "Zipcode": "60636", "Rental_Price": "1211", "Neighborhood_Score": "307.57553", "City": "Chicago"}
{"Case_ID": "100101", "Date": "05/02/2019", "Crime_Type": "BATTERY", "Crime_Description": "DOMESTIC BATTERY SIMPLE", "Location_Description": "APARTMENT", "Geolocation": "41.81386068,-87.596642837", "Zipcode": "60615", "Rental_Price": "1955", "Neighborhood_Score": "96.26703", "City": "Chicago"}
{"Case_ID": "100102", "Date": "05/02/2019", "Crime_Type": "BATTERY", "Crime_Description": "SIMPLE", "Location_Description": "APARTMENT", "Geolocation": "41.800802415,-87.622619343", "Zipcode": "60615", "Rental_Price": "1955", "Neighborhood_Score": "96.26703", "City": "Chicago"}
{"Case_ID": "100103", "Date": "05/02/2019", "Crime_Type": "ROBBERY", "Crime_Description": "ARMED: HANDGUN", "Location_Description": "SIDEWALK", "Geolocation": "41.878064761,-87.74335401299999", "Zipcode": "60644", "Rental_Price": "1467", "Neighborhood_Score": "349.7168", "City": "Chicago"}
{"Case_ID": "100104", "Date": "05/02/2019", "Crime_Type": "BATTERY", "Crime_Description": "SIMPLE", "Location_Description": "APARTMENT", "Geolocation": "41.805443345,-87.604283976", "Zipcode": "60615", "Rental_Price": "1955", "Neighborhood_Score": "96.26703", "City": "Chicago"}
```

## Spark logs showing the same records (Can be identified by IDs)

```
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Time: 2019-05-02 22:25:41
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(None, '{"Case ID": 100100, "Date": "05/02/2019", "Crime Type": "OTHER OFFENSE", "Crime Description": "PAROLE VIOLATION", "Location Description": "STREET", "Geolocation": "41.773371528,-87.66531946799999", "Zipcode": 60636, "Rental Price": 1211, "Neighborhood Score": 307.57553, "City": "Chicago"}')
(None, '{"Case ID": 100101, "Date": "05/02/2019", "Crime Type": "BATTERY", "Crime Description": "DOMESTIC BATTERY SIMPLE", "Location Description": "APARTMENT", "Geolocation": "41.81386068,-87.596642837", "Zipcode": 60615, "Rental Price": 1955, "Neighborhood Score": 96.26703, "City": "Chicago"}')
(None, '{"Case ID": 100102, "Date": "05/02/2019", "Crime Type": "BATTERY", "Crime Description": "SIMPLE", "Location Description": "APARTMENT", "Geolocation": "41.800802415,-87.622619343", "Zipcode": 60615, "Rental Price": 1955, "Neighborhood Score": 96.26703, "City": "Chicago"}')
(None, '{"Case ID": 100103, "Date": "05/02/2019", "Crime Type": "ROBBERY", "Crime Description": "ARMED: HANDGUN", "Location Description": "SIDEWALK", "Geolocation": "41.878064761,-87.74335401299999", "Zipcode": 60644, "Rental Price": 1467, "Neighborhood Score": 349.7168, "City": "Chicago"}')
(None, '{"Case ID": 100104, "Date": "05/02/2019", "Crime Type": "BATTERY", "Crime Description": "SIMPLE", "Location Description": "APARTMENT", "Geolocation": "41.805443345,-87.604283976", "Zipcode": 60615, "Rental Price": 1955, "Neighborhood Score": 96.26703, "City": "Chicago"}')
```

## Kibana map showing new records

