**PROSES CLEANSING**

|  |  |  |  |  |
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| **TAHAP** | **BERITA** | | | **PERSENTASE REDUKSI** |
| **SEBELUM** | **SESUDAH** |  | |
| INDONESIA | | | | |
| Observe Events by Year |  |  |  | |
| Make Sure Date in Range of 2003-2017 |  |  |  | |
| Filter by Actor1CountryCode or Actor2CountryCode |  |  |  | |
| Deduplicate URL (http/http filled data) |  |  |  | |
| For Null URL and non http source, deduplicate news by theirs similarities (AvgTone, ActionGeoLat, ActionGeoLong, GoldSteinScale, EventCode) |  |  |  | |
| MALAYSIA | | | | |
| Observe Events by Year |  |  |  | |
| Make Sure Date in Range of 2003-2017 |  |  |  | |
| Filter by Actor1CountryCode or Actor2CountryCode |  |  |  | |
| Deduplicate URL (http/http filled data) |  |  |  | |
| For Null URL and non http source, deduplicate news by theirs similarities (AvgTone, ActionGeoLat, ActionGeoLong, GoldSteinScale, EventCode) |  |  |  | |
| SINGAPURA | | | | |
| Observe Events by Year | 1913966 | 1913966 |  | |
| Make Sure Date in Range of 2003-2017 |  |  |  | |
| Filter by Actor1CountryCode or Actor2CountryCode |  |  |  | |
| Deduplicate URL (http/http filled data) |  |  |  | |
| For Null URL and non http source, deduplicate news by theirs similarities (AvgTone, ActionGeoLat, ActionGeoLong, GoldSteinScale, EventCode) |  |  |  | |
| FILIPINA | | | | |
| Observe Events by Year |  |  |  | |
| Make Sure Date in Range of 2003-2017 |  |  |  | |
| Filter by Actor1CountryCode or Actor2CountryCode |  |  |  | |
| Deduplicate URL (http/http filled data) |  |  |  | |
| For Null URL and non http source, deduplicate news by theirs similarities (AvgTone, ActionGeoLat, ActionGeoLong, GoldSteinScale, EventCode) |  |  |  | |
| BRUNEI DARUSSALAM | | | | |
| Observe Events by Year | 636.072 | 636.072 |  | |
| Make Sure Date in Range of 2003-2017 | 636.072 | 585.615 |  | |
| Filter by Actor1CountryCode or Actor2CountryCode | 585.615 | 237.705 |  | |
| Deduplicate URL (http/http filled data) | 237.705 | 121.153 |  | |
| For Null URL and non http source, deduplicate news by theirs similarities (AvgTone, ActionGeoLat, ActionGeoLong, GoldSteinScale, EventCode) | 121.153 | 85.427 |  | |
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