**Design Document for A2P Record Filtration**

**AIM: To Identify and drop Application to Peer SMS from CDR Data sheet.**

**Step-1**: Identifying the High SMS Volume

Maximum number of SMS that can be send in a day, Threshold =250

Table 1- mno\_data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Event | Originating | Receiving | Date | Time | Lac-id | Cell-id | Call\_duration |
| SMS |  |  |  |  |  |  |  |
| Voice |  |  |  |  |  |  |  |
| SMS |  |  |  |  |  |  |  |
| SMS |  |  |  |  |  |  |  |

Table 2- SMS\_vol

|  |
| --- |
| Originating |
|  |
|  |
|  |

Query:

1. alter table mno\_data add highSMSvolume int;

2.create table SMS\_vol select originating, count(\*) as count from mno\_data group by originating number having count(\*) > threshold where event=”SMS”;

3. update mno\_data set highSMSvolume=1 where originating in ( select originating from SMS\_vol);

Result :-

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Event | Originating | Receiving | Date | Time | Lac-id | Cell-id | Call\_duration | HighSMSVolume |
| SMS |  |  |  |  |  |  |  |  |
| Voice |  |  |  |  |  |  |  |  |
| SMS |  |  |  |  |  |  |  |  |
| SMS |  |  |  |  |  |  |  |  |

**Step 2**: Identifying multiple sent locations

**Step 3: Identifying numbers which does not receive any SMS (DoesNotReceiveSMS)**

Table : mno\_data

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Event | Originating | Receiving | Date | Time | Lac-id | Cell-id | Call\_duration | HighSMSVolume | DoesNotrecieveSMS |
|  |  |  |  |  |  |  |  |  |  |

Query:

1.alter table mno\_data add DoesNotReceiveSMS int;

2. create table SMS\_receive select originating from mno\_data where originating not in( ( select receiving from mno\_data) and originating in( select originating from SMS\_vol) );

3. update mno\_data set DoesNotReceiveSMS=1 where originating in ( select \* from SMS\_receive);