Fzero Database Schema Documentation

1. **Tables**
2. ActionTypes: contains all types of actions that are logged to track users’ activity on the application
3. ApplicationUsers: contains all System Users who can access the Main portal of the Application.
4. AppType: contains lookup data of user types.
5. Carriers: carries all carriers from who we receive CDRs… this table is incremented automatically whenever we receive a CDR from an undefined carrier.
6. CasesLogs: used to log case statuses through the case cycle in case management module.
7. ChangeTypes: lookup table for change types that may occur for a given case.
8. Clients: contains lookup table for clients that we provide service in this application, also we specify types of reports that are allowed to be sent through deployed windows services.
9. EmailCCs: contains cc list to whom we sent reports for given clients and mobile operators.
10. Emails: contains log of all Emails sent by the system to clients and mobile operators for tracking purpose.
11. EmailTemplates: carries templates for emails that are send to customers
12. EmailTokens: contains characters that are replaced on runtime in email templates... for example we have %link% … this token will contain URL that is sent in the email sent.
13. GeneratedCalls: carries all generated calls that are collected from generating sources defined in sources table.
14. GMTs: lookup table for GMTs
15. Imports: logs all the imports that are done either manually or automatically.
16. ImportTypes: lookup table for import types (Generated or Received)
17. LoggedActions: contains log of actions that are done by system users
18. MobileOperatorFeedbacks: lookup table for feedback of operators
19. MobileOperators: contains mobile operators registered in Fzero.
20. OriginationNetworks: carries all the origination networks from which we received calls... Note that this table is automatically updates… i.e. Whenever a new CDR is imported from a new origination network not registered before... the network will be inserted automatically
21. Permissions: contains set of permissions that might be granted to system users.
22. PredefinedColumns: lookup table for predefined columns used in mapping CDRs to generated or received calls table.
23. PredefinedColumnsforRelatedNumbers: same as above but it is specific for related numbers.
24. Priorities: lookup table for priorities in the suspicion level of cases
25. RecievedCalls: contains all the received calls that are collected form the sources that are specified in sources table who are receivers
26. RecievedEmails: logs all the emails that where received by Fzero
27. RecommendedActions: lookup table for recommended action for cases
28. RelatedNumberMappings: contains mapping for related numbers… that is used to import related numbers delivered by mobile operators.
29. RelatedNumbers: contains the related numbers to a given number this was sent as fraud to an operator
30. ReportingStatuses: lookup of Reporting Statuses for cases immerging in the system.
31. Reports: contains reports sent.
32. SourceKinds: lookup table for source kinds (GSM or SIP)
33. SourceMapping: contains mapping of sources in order to know how to read and insert records from sources to Database
34. Sources: contains all sources that either generate calls or receive or both... with email and GMT of each to solve issue or time difference
35. SourceTypes: lookup table for Source Types
36. Statuses: look up for case statuses
37. SwitchProfiles: contains information or switch that are used in Level two compare
38. SysParameters: configuration parameters table
39. ToneFeedback: level two compare related feedback types sent by IGW server
40. UserPermissions: carries permissions of system users
41. Users: used to register all users who can access the application. These users can be System admins or Mobile operators
42. ValueTypes: for the configuration system parameters specified above
43. WebsiteMenu: contains the menu of the main and clients portals
44. **Database Mail Configuration**
45. Mail Accounts:
46. FMS\_Account: used to send emails for Clients: ITPC, Zain, and any new client.
47. FMS\_Syria\_Account: used to send emails for ST only.
48. Profiles:
49. FMS\_Profile: related to FMS\_Account and specified in sp that queues an email to a given client or mobile operator
50. FMS\_Syria\_Profile: related to FMS\_Syria \_Account and specified in sp that queues an email to a given client or mobile operator
51. **Jobs**
52. LevelOneComparison: this job is responsible for comparing generated calls with received calls in order to link them … and find fraud calls... this is done using a complicated mechanism in which a\_number, b\_number, attemptdatetime and duration and source are needed to find the related calls and to find fraud calls