```
+caller_blacklist.caller_id not in (select caller_id from caller_whitelist) AND caller_blacklist.caller_id=caller.id(): where
                                                                                                                                                                                                                                                                                                           +length_query: smallint = not null
+actual_mismatches: smallint = not null
+offset_position: smallint = not null
                                                                                                                                                                                                                           matchlist
                                                                                                                                                                                                                                                                                                                                                                                    +processed: smallint = -1
                                                                                                                                                                                                                                                                                       +matched_call_id: integer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    +old_call_id: integer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           +timestamp: timestamp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  +reason: varchar(50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 caller_blacklist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         +caller_id: integer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            +caller_id: integer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         +callee id: integer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       caller whitelist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       callee whitelist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |+call_id: integer
                                                                                                                                                                                                                                                                  +call id: integer
v_caller_blacklist
                                                                                                                                                                                                                                         +call_id
                                                                                                                                                                                                                                                                                       matched_call_id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               +call id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             +caller_id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   +caller_id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  +callee_id
                                                                                                                                                                                                                                                                               +callee whitelist.callee id=callee.id(): where
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       +caller_id: integer = not nu<del>ll</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    +processed: smallint = -1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    j.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 +uri: varchar(100)+id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               +timestamp: timestamp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             +indexed: smallint =
                                                                  +caller, caller_blacklist(): from
                                                                                                                                                                                                                                                      +callee, callee whitelist(): from
                                                                                                                                                                                     v_callee_whitelist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            +name: varchar(60)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                +uri: varchar(100)
                                                                                                                                                                                                                                                                                                                                                                                                                                            =
E
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  caller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     +id #id: serial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #id: serial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #id: serial
                                                                                                                                                                                                                           +callee.uri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       +caller_id
                                       +caller.*
```