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1  --usar función para la creación de los guid--
2  SELECT uuid_generate_v4();
3
4  --eliminar dominios--
5  DROP DOMAIN Dom_Roca;
6  DROP DOMAIN Dom_Meteor;
7  DROP DOMAIN Dom_Estratif;
8  DROP DOMAIN Dom_Lamina;
9  DROP DOMAIN Dom_Altera;
10 DROP DOMAIN Dom_Discon;
11 DROP DOMAIN Dom_Ind_Cinem;
12 DROP DOMAIN Dom_Tipo_Estratif;
13 DROP DOMAIN Dom_Tipo_Lamina;
14 DROP DOMAIN Dom_Estruct_Sed;
15 DROP DOMAIN Dom_TipoSedimen;
16 DROP DOMAIN Dom_GeomEstrat;
17 DROP DOMAIN Dom_Espesor;
18 DROP DOMAIN Dom_Fosiles;
19 DROP DOMAIN Dom_TipoFos;
20 DROP DOMAIN Dom_Columna;
21 DROP DOMAIN Dom_Alteracion;
22 DROP DOMAIN Dom_EstiloAlt;
23 DROP DOMAIN Dom_Tipo_Disconti;
24 DROP DOMAIN Dom_Persistenc;
25 DROP DOMAIN Dom_DatoEstruct;
26 DROP DOMAIN Dom_Class_Met;
27 DROP DOMAIN Dom_Class_Pluto;
28 DROP DOMAIN Dom_Class_Volca;
29 DROP DOMAIN Dom_Roca_Sed;
30 DROP DOMAIN Dom_Facies;
31 DROP DOMAIN Dom_Grado_Met;
32 DROP DOMAIN Dom_Tipo_Met;
33 DROP DOMAIN Dom_EstructMet;
34 DROP DOMAIN Dom_Compo_Met;
35 DROP DOMAIN Dom_Zona_Met;
36 DROP DOMAIN Dom_Magma;
37 DROP DOMAIN Dom_TextIgn;
38 DROP DOMAIN Dom_Ambient_Sed;
39 DROP DOMAIN Dom_Eon_Geo;
40 DROP DOMAIN Dom_Era_Geo;
41 DROP DOMAIN Dom_Period_Geo;
42 DROP DOMAIN Dom_Epoc_Geo;
43 DROP DOMAIN Dom_Tipo_ContUG;
44 DROP DOMAIN Dom_Tipo_Falla;
45 DROP DOMAIN Dom_Cinema;
46 DROP DOMAIN Dom_Pliegue_Geom;
47 DROP DOMAIN Dom_Pliegue_Estrat;
48 DROP DOMAIN Dom_Pliegue_AnaGeom;
49 DROP DOMAIN Dom_Pliegue_Config;
50 DROP DOMAIN Dom_Pliegue_Aper;
51 DROP DOMAIN Dom_Pliegue_Estilo;
52 DROP DOMAIN Dom_Pliegue_ExtReg;

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53 DROP DOMAIN Dom_ProcesoMorfodin;
54 DROP DOMAIN Dom_NombProceso;
55 DROP DOMAIN Dom_EstadoProceso;
56 DROP DOMAIN Dom_Geoestruct;
57 DROP DOMAIN Dom_AmbMorfogen;
58 DROP DOMAIN Dom_Paisaje;
59 DROP DOMAIN Dom_Tipo_Relieve;
60 DROP DOMAIN Dom_Facies_Material;
61 DROP DOMAIN Dom_Forma_Terreno;
62 DROP DOMAIN Dom_Provincia;
63 DROP DOMAIN Dom_Componente;
64 DROP DOMAIN Dom_TipoMov;
65 DROP DOMAIN Dom_SubtMM;
66 DROP DOMAIN Dom_Parte;
67 DROP DOMAIN Dom_EstiloMM;
68 DROP DOMAIN Dom_EstadoMM;
69 DROP DOMAIN Dom_MetGeof;
70 DROP DOMAIN Dom_UnidadGeof;
71 DROP DOMAIN Dom_Mallado;
72 DROP DOMAIN Dom_TipoTecnica;
73
74 --crear dominios--
75 CREATE DOMAIN Dom_Roca AS CHAR(16) CONSTRAINT Dom_Roca_const CHECK
76 (VALUE IN ('Roca fresca',
77
78
79
80
81 CREATE DOMAIN Dom_Meteor AS CHAR(25) CONSTRAINT Dom_Meteor_const
82 CHECK (VALUE IN ('Débilmente meteorizada',
83
84
85
86
87 CREATE DOMAIN Dom_Estratif AS CHAR(2) CONSTRAINT Dom_Estratif_const
88 CHECK (VALUE IN ('Si', 'No'));
89
90 CREATE DOMAIN Dom_Lamina AS CHAR(2) CONSTRAINT Dom_Lamina_const CHECK
91 (VALUE IN ('Si', 'No'));
92
93 CREATE DOMAIN Dom_Altera AS CHAR(2) CONSTRAINT Dom_Altera_const CHECK
94 (VALUE IN ('Si', 'No'));
95
96 CREATE DOMAIN Dom_Discon AS CHAR(2) CONSTRAINT Dom_Discon_const CHECK
97 (VALUE IN ('Si', 'No'));
98
99 CREATE DOMAIN Dom_Ind_Cinem AS CHAR(23) CONSTRAINT
100 Dom_Ind_Cinem_const CHECK (VALUE IN ('Estrías de falla',
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107
108 CREATE DOMAIN Dom_Tipo_Estratif AS CHAR(22) CONSTRAINT
109 Dom_Tipo_Estratif_const CHECK (VALUE IN ('Paralela',
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119
120 CREATE DOMAIN Dom_Tipo_Lamina AS CHAR(22) CONSTRAINT
121 Dom_Tipo_Lamina_const CHECK (VALUE IN ('Paralela',
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131
132 CREATE DOMAIN Dom_Estruct_Sed AS CHAR(30) CONSTRAINT
133 Dom_Estruct_Sed_const CHECK (VALUE IN ('Ripple marks',
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149 CREATE DOMAIN Dom_TipoSedimen AS CHAR(15) CONSTRAINT
150 Dom_TipoSedimen_const CHECK (VALUE IN ('Detrítica',
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159
160 CREATE DOMAIN Dom_GeomEstrat AS CHAR(19) CONSTRAINT
161 Dom_GeomEstrat_const CHECK (VALUE IN ('Tabular',
162
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168
169
170 CREATE DOMAIN Dom_Espesor AS CHAR(11) CONSTRAINT Dom_Espesor_const
171 CHECK (VALUE IN ('Muy gruesa',
172
173
174
175
176
177 CREATE DOMAIN Dom_Fosiles AS CHAR(2) CONSTRAINT Dom_Fosiles_const
178 CHECK (VALUE IN ('Si', 'No'));
179
180 CREATE DOMAIN Dom_TipoFos AS CHAR(20) CONSTRAINT Dom_TipoFos_const
181 CHECK (VALUE IN ('Macrofósiles',
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225
226 CREATE DOMAIN Dom_Columna AS CHAR(2) CONSTRAINT Dom_Columna_const
227 CHECK (VALUE IN ('Si', 'No'));
228
229 CREATE DOMAIN Dom_Alteracion AS CHAR(30) CONSTRAINT
230 Dom_Alteracion_const CHECK (VALUE IN ('Adularia',
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288 CREATE DOMAIN Dom_EstiloAlt AS CHAR(21) CONSTRAINT
289 Dom_EstiloAlt_const CHECK (VALUE IN ('Pervasiva',
290
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302
303 CREATE DOMAIN Dom_Tipo_Disconti AS CHAR(17) CONSTRAINT
304 Dom_Tipo_Disconti_const CHECK (VALUE IN ('Zona de cizalla',
305
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316
317 CREATE DOMAIN Dom_Persistenc AS CHAR(28) CONSTRAINT
318 Dom_Persistenc_const CHECK (VALUE IN ('Muy baja continuidad (< 1m)',
319
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321
322
323
324 CREATE DOMAIN Dom_DatoEstruct AS CHAR(69) CONSTRAINT
325 Dom_DatoEstruct_const CHECK (VALUE IN ('Contacto',
326
327
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331
332 CREATE DOMAIN Dom_Class_Met AS CHAR(21) CONSTRAINT
333 Dom_Class_Met_const CHECK (VALUE IN ('Anfibolita',
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367 CREATE DOMAIN Dom_Class_Pluto AS CHAR(63) CONSTRAINT
368 Dom_Class_Pluto_const CHECK (VALUE IN ('Granito rico en cuarzo',
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394 CREATE DOMAIN Dom_Class_Volca AS CHAR(51) CONSTRAINT
395 Dom_Class_Volca_const CHECK (VALUE IN ('Riolita con feldespato
396 alcalino',
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417 CREATE DOMAIN Dom_Roca_Sed AS CHAR(43) CONSTRAINT Dom_Roca_Sed_const
418 CHECK (VALUE IN ('Conglomerado',
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460
461 CREATE DOMAIN Dom_Facies AS CHAR(22) CONSTRAINT Dom_Facies_const
462 CHECK (VALUE IN ('Esquistos verdes',
463
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474
475 CREATE DOMAIN Dom_Grado_Met AS CHAR(14) CONSTRAINT
476 Dom_Grado_Met_const CHECK (VALUE IN ('Grado muy bajo',
477
478
479
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481
482 CREATE DOMAIN Dom_Tipo_Met AS CHAR(36) CONSTRAINT Dom_Tipo_Met_const
483 CHECK (VALUE IN ('Metamorfismo Isoquímico',
484
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501 CREATE DOMAIN Dom_EstructMet AS CHAR(12) CONSTRAINT
502 Dom_EstructMet_const CHECK (VALUE IN ('Masiva',
503
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514
515 CREATE DOMAIN Dom_Compo_Met AS CHAR(15) CONSTRAINT
516 Dom_Compo_Met_const CHECK (VALUE IN ('Máfica',
517
518
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521
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523
524 CREATE DOMAIN Dom_Zona_Met AS CHAR(23) CONSTRAINT Dom_Zona_Met_const
525 CHECK (VALUE IN ('Diagénesis',
526
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538
539 CREATE DOMAIN Dom_Magma AS CHAR(11) CONSTRAINT Dom_Magma_const CHECK
540 (VALUE IN ('Félsico',
541
542
543
544
545 CREATE DOMAIN Dom_TextIgn AS CHAR(12) CONSTRAINT Dom_TextIgn_const
546 CHECK (VALUE IN ('Afanítica',
547
548
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553
554 CREATE DOMAIN Dom_Ambient_Sed AS CHAR(12) CONSTRAINT
555 Dom_Ambient_Sed_const CHECK (VALUE IN ('Fluvial',
556
557
558
559
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561
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563
564
565 CREATE DOMAIN Dom_Eon_Geo AS CHAR(12) CONSTRAINT Dom_Eon_Geo_const
566 CHECK (VALUE IN ('Fanerozoico',
567
568
569
570
571 CREATE DOMAIN Dom_Era_Geo AS CHAR(17) CONSTRAINT Dom_Era_Geo_const
572 CHECK (VALUE IN ('Cenozoico',
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583
584 CREATE DOMAIN Dom_Period_Geo AS CHAR(11) CONSTRAINT
585 Dom_Period_Geo_const CHECK (VALUE IN ('Cuaternario',
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607
608 CREATE DOMAIN Dom_Epoc_Geo AS CHAR(23) CONSTRAINT Dom_Epoc_Geo_const
609 CHECK (VALUE IN ('Holoceno',
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648 CREATE DOMAIN Dom_Tipo_ContUG AS CHAR(31) CONSTRAINT
649 Dom_Tipo_ContUG_const CHECK (VALUE IN ('Aureola de contacto',
650
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665
666 CREATE DOMAIN Dom_Tipo_Falla AS CHAR(53) CONSTRAINT
667 Dom_Tipo_Falla_const CHECK (VALUE IN ('Falla',
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698 CREATE DOMAIN Dom_Cinema AS CHAR(17) CONSTRAINT Dom_Cinema_const
699 CHECK (VALUE IN ('Dextral',
700
701
702
703
704
705
706
707
708 CREATE DOMAIN Dom_Pliegue_Geom AS CHAR(9) CONSTRAINT
709 Dom_Pliegue_Geom_const CHECK (VALUE IN ('Antiforme',
710
711
712 CREATE DOMAIN Dom_Pliegue_Estrat AS CHAR(10) CONSTRAINT
713 Dom_Pliegue_Estrat_const CHECK (VALUE IN ('Anticlinal',
714
715
716 CREATE DOMAIN Dom_Pliegue_AnaGeom AS CHAR(10) CONSTRAINT
717 Dom_Pliegue_AnaGeom_const CHECK (VALUE IN ('Simétrico',
718
719
720
721
722 CREATE DOMAIN Dom_Pliegue_Config AS CHAR(10) CONSTRAINT
723 Dom_Pliegue_Config_const CHECK (VALUE IN ('Simétrico',
724
725
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729
730 CREATE DOMAIN Dom_Pliegue_Aper AS CHAR(9) CONSTRAINT
731 Dom_Pliegue_Aper_const CHECK (VALUE IN ('Isoclinal',
732
733
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736
737 CREATE DOMAIN Dom_Pliegue_Estilo AS CHAR(11) CONSTRAINT
738 Dom_Pliegue_Estilo_const CHECK (VALUE IN ('Chevron',
739
740
741
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743
744
745
746
747 CREATE DOMAIN Dom_Pliegue_ExtReg AS CHAR(12) CONSTRAINT
748 Dom_Pliegue_ExtReg_const CHECK (VALUE IN ('Anticlinorio',
749
750
751 CREATE DOMAIN Dom_ProcesoMorfodin AS CHAR(12) CONSTRAINT
752 Dom_ProcesoMorfodin_const CHECK (VALUE IN ('Deposicional',
753
754
755 CREATE DOMAIN Dom_NombProceso AS CHAR(48) CONSTRAINT
756 Dom_NombProceso_const CHECK (VALUE IN ('Principio de formación de
757 suelos',
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792
793 CREATE DOMAIN Dom_EstadoProceso AS CHAR(8) CONSTRAINT
794 Dom_EstadoProceso_const CHECK (VALUE IN ('Activo',
795
796
797 CREATE DOMAIN Dom_Geoestruct AS CHAR(19) CONSTRAINT
798 Dom_Geoestruct_const CHECK (VALUE IN ('Cordillera',
799
800
801
802 CREATE DOMAIN Dom_AmbMorfogen AS CHAR(12) CONSTRAINT
803 Dom_AmbMorfogen_const CHECK (VALUE IN ('Deposicional',
804
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810
811 CREATE DOMAIN Dom_Paisaje AS CHAR(12) CONSTRAINT Dom_Paisaje_const
812 CHECK (VALUE IN ('Altiplanicie',
813
814
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817
818
819
820 CREATE DOMAIN Dom_Tipo_Relieve AS CHAR(33) CONSTRAINT
821 Dom_Tipo_Relieve_const CHECK (VALUE IN ('Abanico',
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907
908 **CREATE DOMAIN** Dom_Facies_Material **AS** CHAR(18) **CONSTRAINT**
909 Dom_Facies_Material_const **CHECK** (VALUE **IN** ('Aluvial',
910
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912
913
914
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916
917
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921
922
923
924
925
926 **CREATE DOMAIN** Dom_Forma_Terreno **AS** CHAR(32) **CONSTRAINT**
927 Dom_Forma_Terreno_const **CHECK** (VALUE **IN** ('Abanico fluvial',
928
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969
970
971 **CREATE DOMAIN** Dom_Provincia **AS** CHAR(41) **CONSTRAINT**
972 Dom_Provincia_const **CHECK** (VALUE **IN** ('Baja Guajira',
973
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1015
1016 **CREATE DOMAIN** Dom_Componente **AS** CHAR(28) **CONSTRAINT**
1017 Dom_Componente_const **CHECK** (VALUE **IN** ('Acantilados',
1018
1019
1020
1021
1022
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1046
1047 CREATE DOMAIN Dom_TipoMov AS CHAR(18) CONSTRAINT Dom_TipoMov_const
1048 CHECK (VALUE IN ('Deslizamiento',
1049
1050
1051
1052
1053
1054
1055 CREATE DOMAIN Dom_SubtMM AS CHAR(22) CONSTRAINT Dom_SubtMM_const
1056 CHECK (VALUE IN ('Rotacional',
1057
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1065
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1067
1068 CREATE DOMAIN Dom_Parte AS CHAR(17) CONSTRAINT Dom_Parte_const CHECK
1069 (VALUE IN ('Escarpe principal',
1070
1071
1072
1073 CREATE DOMAIN Dom_EstiloMM AS CHAR(9) CONSTRAINT Dom_EstiloMM_const
1074 CHECK (VALUE IN ('Complejo',
1075
1076
1077
1078
1079
1080 CREATE DOMAIN Dom_EstadoMM AS CHAR(8) CONSTRAINT Dom_EstadoMM_const
1081 CHECK (VALUE IN ('Activo',
1082
1083
1084 CREATE DOMAIN Dom_MetGeof AS CHAR(16) CONSTRAINT Dom_MetGeof_const
1085 CHECK (VALUE IN ('Magnetometría',
1086
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1093
1094 CREATE DOMAIN Dom_UnidadGeof AS CHAR(8) CONSTRAINT
1095 Dom_UnidadGeof_const CHECK (VALUE IN ('mGal',
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1100
1101
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1111
1112 CREATE DOMAIN Dom_Mallado AS CHAR(21) CONSTRAINT Dom_Mallado_const
1113 CHECK (VALUE IN ('Cuadrada',
1114
1115
1116
1117
1118
1119
1120 CREATE DOMAIN Dom_TipoTecnica AS CHAR(30) CONSTRAINT
1121 Dom_TipoTecnica_const CHECK (VALUE IN ('Tomografía Eléctrica',
1122
1123
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1125
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1128
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1143
1144 --eliminar tablas--
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1145 DROP TABLE IF EXISTS "Proceso_Morfodina_PT";
1146 DROP TABLE IF EXISTS "Pliegues_PT";
1147 DROP TABLE IF EXISTS "GeofisicaPG";
1148 DROP TABLE IF EXISTS "GeofisicaLN";
1149 DROP TABLE IF EXISTS "GCP";
1150 DROP TABLE IF EXISTS "EventosMorfodinam";
1151 DROP TABLE IF EXISTS "EstratigrafiaSedimentologica";
1152 DROP TABLE IF EXISTS "Discontinuidades";
1153 DROP TABLE IF EXISTS "Dato_Estructural";
1154 DROP TABLE IF EXISTS "CaracteristicaLito";
1155 DROP TABLE IF EXISTS "Alteraciones";
1156 DROP TABLE IF EXISTS "UnidadLito";
1157 DROP TABLE IF EXISTS "UnidadGeomorfo";
1158 DROP TABLE IF EXISTS "UnidadGeo";
1159 DROP TABLE IF EXISTS "Proceso_Morfodina_PG";
1160 DROP TABLE IF EXISTS "Proceso_Morfodina_LN";
1161 DROP TABLE IF EXISTS "Pliegues_LN";
1162 DROP TABLE IF EXISTS "Fallas";
1163 DROP TABLE IF EXISTS "Estaciones";
1164 DROP TABLE IF EXISTS "ContactoGeo";
1165 DROP TABLE IF EXISTS "ProyectoCampo";
1166
1167
1168 --creación de las tablas--
1169 CREATE TABLE "ProyectoCampo" (
1170     "Guid" VARCHAR (22) NOT NULL,
1171     "Area (ha)" DOUBLE PRECISION GENERATED ALWAYS AS
1172 (ST_Area(geometria) / 10000.0) STORED,
1173     "Respon" VARCHAR (30) NOT NULL,
1174     "Semestre" VARCHAR (6) NOT NULL,
1175     geometria GEOMETRY (MULTIPOLYGONZM, 3116),
1176     CONSTRAINT proyecto_campo_pk PRIMARY KEY ("Guid"),
1177     CONSTRAINT proyecto_campo_guid_unique UNIQUE ("Guid")
1178 );
1179 CREATE INDEX proyecto_campo_guid_idx ON "ProyectoCampo" ("Guid");
1180
1181
1182 CREATE TABLE "ContactoGeo" (
1183     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1184     "UUID" VARCHAR (22) NOT NULL,
1185     "Tipo" Dom_Tipo_ContUG NOT NULL,
1186     "Observa" VARCHAR (300),
1187     geometria GEOMETRY (MULTILINESTRINGZM, 3116),
1188     CONSTRAINT contacto_geo_pk PRIMARY KEY ("Guid"),
1189     CONSTRAINT proyecto_c_contacto_g_fk FOREIGN KEY ("UUID")
1190 REFERENCES "ProyectoCampo" ("Guid")
1191 );
1192 CREATE INDEX contacto_geo_guid_idx ON "ContactoGeo" ("Guid");
1193
1194
1195 CREATE TABLE "Estaciones" (
1196     "Fecha" TIMESTAMP NOT NULL,

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1197     "Guid" VARCHAR (22) NOT NULL,
1198     "UUID" VARCHAR (22) NOT NULL,
1199     "Dia" INTEGER NOT NULL,
1200     "Ubicacion" VARCHAR (100) NOT NULL,
1201     "X" DOUBLE PRECISION GENERATED ALWAYS AS
1202 (ST_X(ST_Transform(geometria, 3116))::DOUBLE PRECISION) STORED,
1203     "Y" DOUBLE PRECISION GENERATED ALWAYS AS
1204 (ST_Y(ST_Transform(geometria, 3116))::DOUBLE PRECISION) STORED,
1205     "Z" DOUBLE PRECISION,
1206     "Plancha" VARCHAR (20) NOT NULL,
1207     "Cal_roc" Dom_Roca NOT NULL,
1208     "Meteor" Dom_Meteor NOT NULL,
1209     "Estratific" Dom_Estratif NOT NULL,
1210     "Lamina" Dom_Lamina NOT NULL,
1211     "Altera" Dom_Altera NOT NULL,
1212     "Discon" Dom_Discon NOT NULL,
1213     "Ind_Cinem" Dom_Ind_Cinem,
1214     "Descripcion" VARCHAR (500),
1215     geometria GEOMETRY (POINTZM, 3116),
1216     CONSTRAINT estaciones_pk PRIMARY KEY ("Guid"),
1217     CONSTRAINT proyecto_c_estaciones_fk FOREIGN KEY ("UUID")
1218 REFERENCES "ProyectoCampo" ("Guid")
1219 );
1220 CREATE INDEX estaciones_guid_idx ON "Estaciones" ("Guid");
1221
1222
1223 CREATE TABLE "Fallas" (
1224     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1225     "UUID" VARCHAR (22) NOT NULL,
1226     "Tipo" Dom_Tipo_Falla NOT NULL,
1227     "Nombre" VARCHAR (50),
1228     "Buzamiento" DOUBLE PRECISION,
1229     "Dir_Buz" DOUBLE PRECISION,
1230     "Cinema" Dom_Cinema,
1231     "Observa" VARCHAR (300),
1232     geometria GEOMETRY (LINESTRING, 3116),
1233     CONSTRAINT fallas_pk PRIMARY KEY ("Guid"),
1234     CONSTRAINT proyecto_campo_fallas_fk FOREIGN KEY ("UUID")
1235 REFERENCES "ProyectoCampo" ("Guid")
1236 );
1237 CREATE INDEX fallas_guid_idx ON "Fallas" ("Guid");
1238
1239
1240 CREATE TABLE "Pliegues_LN" (
1241     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1242     "UUID" VARCHAR (22) NOT NULL,
1243     "Pliegue_Geom" Dom_Pliegue_Geom,
1244     "Pliegue_Estrat" Dom_Pliegue_Estrat,
1245     "Pliegue_Anageom" Dom_Pliegue_AnaGeom,
1246     "Pliegue_Config" Dom_Pliegue_Config,
1247     "Pliegue_Aper" Dom_Pliegue_Aper,
1248     "Pliegue_Exten" Dom_Pliegue_ExtReg,

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1249     "Plieque_Estilo" Dom_Plieque_Estilo,
1250     "Nombre" VARCHAR (50),
1251     "Observa" VARCHAR (300),
1252     geometria GEOMETRY (LINESTRING, 3116),
1253     CONSTRAINT pliegues_ln_pk PRIMARY KEY ("Guid"),
1254     CONSTRAINT proyecto_c_pliegues_l_fk FOREIGN KEY ("UUID")
1255 REFERENCES "ProyectoCampo" ("Guid")
1256 );
1257 CREATE INDEX pliegues_ln_guid_idx ON "Pliegues_LN" ("Guid");
1258
1259
1260 CREATE TABLE "Proceso_Morfidina_LN" (
1261     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1262     "UUID" VARCHAR (22) NOT NULL,
1263     "Tipo_Proceso" Dom_ProcesoMorfodin NOT NULL,
1264     "Nombre" Dom_NombProceso NOT NULL,
1265     "Estado" Dom_EstadoProceso NOT NULL,
1266     "Long" DOUBLE PRECISION GENERATED ALWAYS AS
1267 (ST_Length(geometria)::DOUBLE PRECISION) STORED,
1268     "Observa" VARCHAR (300),
1269     geometria GEOMETRY (LINESTRING, 3116),
1270     CONSTRAINT proceso_morfidina_ln_pk PRIMARY KEY ("Guid"),
1271     CONSTRAINT proyecto_c_proceso_mo_fk FOREIGN KEY ("UUID")
1272 REFERENCES "ProyectoCampo" ("Guid")
1273 );
1274 CREATE INDEX proceso_mo_guid_idx ON "Proceso_Morfidina_LN" ("Guid");
1275
1276
1277 CREATE TABLE "Proceso_Morfodina_PG" (
1278     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1279     "UUID" VARCHAR (22) NOT NULL,
1280     "Tipo_Proceso" Dom_ProcesoMorfodin NOT NULL,
1281     "Nombre" Dom_NombProceso NOT NULL,
1282     "Estado" Dom_EstadoProceso NOT NULL,
1283     "Area (ha)" DOUBLE PRECISION GENERATED ALWAYS AS
1284 (ST_Area(geometria) / 10000.0) STORED,
1285     "Observa" VARCHAR (300),
1286     geometria GEOMETRY (POLYGON, 3116),
1287     CONSTRAINT proceso_morfodina_pg_pk PRIMARY KEY ("Guid"),
1288     CONSTRAINT proyecto_c_proceso_mo_fk_1 FOREIGN KEY ("UUID")
1289 REFERENCES "ProyectoCampo" ("Guid")
1290 );
1291 CREATE INDEX proceso_mo_guid_idx_1 ON "Proceso_Morfodina_PG"
1292 ("Guid");
1293
1294
1295 CREATE TABLE "UnidadGeo" (
1296     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1297     "UUID" VARCHAR (22) NOT NULL,
1298     "Eon" Dom_Eon_Geo NOT NULL,
1299     "Era" Dom_Era_Geo NOT NULL,
1300     "Periodo" Dom_Period_Geo,

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1301     "Epoca" Dom_Epoc_Geo,
1302     "Edad" VARCHAR (40),
1303     "Nombre" VARCHAR (50) NOT NULL,
1304     "Nomenclat" VARCHAR (10) NOT NULL,
1305     "Litologia" VARCHAR (150) NOT NULL,
1306     "Observ_Un" VARCHAR (200),
1307     "Observa" VARCHAR (300),
1308     geometria GEOMETRY (POLYGON, 3116),
1309     CONSTRAINT unidad_geo_pk PRIMARY KEY ("Guid"),
1310     CONSTRAINT proyecto_c_unidad_geo_fk FOREIGN KEY ("UUID")
1311 REFERENCES "ProyectoCampo" ("Guid")
1312 );
1313 CREATE INDEX unidad_geo_guid_idx ON "UnidadGeo" ("Guid");
1314
1315
1316 CREATE TABLE "UnidadGeomorfo" (
1317     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1318     "UUID" VARCHAR (22) NOT NULL,
1319     "Area (ha)" DOUBLE PRECISION GENERATED ALWAYS AS
1320 (ST_Area(geometria) / 10000.0) STORED,
1321     "Geoestructura" Dom_Geoestruct NOT NULL,
1322     "Amb_Morfog" Dom_AmbMorfogen NOT NULL,
1323     "Paisaje_Gm" Dom_Paisaje NOT NULL,
1324     "Tipo_Relieve" Dom_Tipo_Relieve,
1325     "Facies_Material" Dom_Facies_Material NOT NULL,
1326     "Forma_Terreno" Dom_Forma_Terreno,
1327     "Provincia" Dom_Provincia NOT NULL,
1328     "Componente" Dom_Componente,
1329     "Nombre" VARCHAR (80) NOT NULL,
1330     "Nomenclat" VARCHAR (10) NOT NULL,
1331     "Observa" VARCHAR (300),
1332     geometria GEOMETRY (POLYGON, 3116),
1333     CONSTRAINT unidad_geometriaorfo_pk PRIMARY KEY ("Guid"),
1334     CONSTRAINT proyecto_c_unidad_geo_fk_1 FOREIGN KEY ("UUID")
1335 REFERENCES "ProyectoCampo" ("Guid")
1336 );
1337 CREATE INDEX unidad_geometriaorfo_guid_idx ON "UnidadGeomorfo"
1338 ("Guid");
1339
1340
1341 CREATE TABLE "UnidadLito" (
1342     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1343     "UUID" VARCHAR (22) NOT NULL,
1344     "Area (ha)" DOUBLE PRECISION GENERATED ALWAYS AS
1345 (ST_Area(geometria) / 10000.0) STORED,
1346     "Nombre_Met" Dom_Class_Met,
1347     "Class_Pluto" Dom_Class_Pluto,
1348     "Class_Volca" Dom_Class_Volca,
1349     "Class_Subvol" VARCHAR (50),
1350     "Nombre_Sed" Dom_Roca_Sed,
1351     "Evento" VARCHAR (40),
1352     "Mineralogia" VARCHAR (150) NOT NULL,

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1353     "Observa" VARCHAR (300),
1354     geometria GEOMETRY (POLYGON, 3116),
1355     CONSTRAINT unidad_lito_pk PRIMARY KEY ("Guid"),
1356     CONSTRAINT proyecto_c_unidad_lit_fk FOREIGN KEY ("UUID")
1357 REFERENCES "ProyectoCampo" ("Guid")
1358 );
1359 CREATE INDEX unidad_lito_guid_idx ON "UnidadLito" ("Guid");
1360
1361
1362 CREATE TABLE "Alteraciones" (
1363     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1364     "UUID" VARCHAR (22) NOT NULL,
1365     "Facies" Dom_Alteracion NOT NULL,
1366     "Estilo" Dom_EstiloAlt NOT NULL,
1367     "Observa" VARCHAR (300),
1368     geometria GEOMETRY (POINT, 3116),
1369     CONSTRAINT alteraciones_pk PRIMARY KEY ("Guid"),
1370     CONSTRAINT estaciones_alteraciones_fk FOREIGN KEY ("UUID")
1371 REFERENCES "Estaciones" ("Guid")
1372 );
1373 CREATE INDEX alteraciones_guid_idx ON "Alteraciones" ("Guid");
1374
1375
1376 CREATE TABLE "CaracteristicaLito" (
1377     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1378     "UUID" VARCHAR (22) NOT NULL,
1379     "Facies" Dom_Facies,
1380     "Grado_Met" Dom_Grado_Met,
1381     "Tipo_Met" Dom_Tipo_Met,
1382     "Estruct_Met" Dom_EstructMet,
1383     "Compo_Met" Dom_Compo_Met NOT NULL,
1384     "Zona_Met" Dom_Zona_Met NOT NULL,
1385     "Tipo_Magma" Dom_Magma NOT NULL,
1386     "Text_Ignea" Dom_TextIgn,
1387     "Ambiente_Sed" Dom_Ambient_Sed,
1388     "Observa" VARCHAR (300),
1389     geometria GEOMETRY (POINT, 3116),
1390     CONSTRAINT caracteristica_lito_pk PRIMARY KEY ("Guid"),
1391     CONSTRAINT estaciones_caracteris_fk FOREIGN KEY ("UUID")
1392 REFERENCES "Estaciones" ("Guid")
1393 );
1394 CREATE INDEX caracteris_guid_idx ON "CaracteristicaLito" ("Guid");
1395
1396
1397 CREATE TABLE "Dato_Estructural" (
1398     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1399     "UUID" VARCHAR (22) NOT NULL,
1400     "Tipo_Dato" Dom_DatoEstruct NOT NULL,
1401     "Buzamiento" DOUBLE PRECISION NOT NULL,
1402     "Azimut_Buz" DOUBLE PRECISION,
1403     "Trend" DOUBLE PRECISION,
1404     "Rake" DOUBLE PRECISION,

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1405     "Observa" VARCHAR (300),
1406     geometria GEOMETRY (POINT, 3116),
1407     CONSTRAINT dato_estructural_pk PRIMARY KEY ("Guid"),
1408     CONSTRAINT estaciones_dato_estru_fk FOREIGN KEY ("UUID")
1409 REFERENCES "Estaciones" ("Guid")
1410 );
1411 CREATE INDEX dato_estructural_guid_idx ON "Dato_Estructural"
1412 ("Guid");
1413
1414
1415 CREATE TABLE "Discontinuidades" (
1416     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1417     "UUID" VARCHAR (22) NOT NULL,
1418     "Tipo" Dom_Tipo_Disconti NOT NULL,
1419     "Buzamiento" DOUBLE PRECISION,
1420     "Dir_Buz" DOUBLE PRECISION,
1421     "Persistenc" Dom_Persistenc,
1422     "Observa" VARCHAR (300),
1423     geometria GEOMETRY (POINT, 3116),
1424     CONSTRAINT discontinuidades_pk PRIMARY KEY ("Guid"),
1425     CONSTRAINT estaciones_discontinuu_fk FOREIGN KEY ("UUID")
1426 REFERENCES "Estaciones" ("Guid")
1427 );
1428 CREATE INDEX discontinuidades_guid_idx ON "Discontinuidades"
1429 ("Guid");
1430
1431
1432 CREATE TABLE "EstratigrafiaSedimentologica" (
1433     "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
1434     "UUID" VARCHAR (22) NOT NULL,
1435     "Tipo_Estratific" Dom_Tipo_Estratif,
1436     "Tipo_Lamina" Dom_Tipo_Lamina,
1437     "Estruct_Sed" Dom_Estruct_Sed,
1438     "Tipo_Roca" Dom_TipoSedimen NOT NULL,
1439     "Geom_Estrat" Dom_GeomEstrat NOT NULL,
1440     "Espesor" Dom_Espesor NOT NULL,
1441     "Fosil" Dom_Fosiles NOT NULL,
1442     "Tipo_Fosil" Dom_TipoFos,
1443     "Columna" Dom_Columna NOT NULL,
1444     "Observa" VARCHAR (300),
1445     geometria GEOMETRY (POINT, 3116),
1446     CONSTRAINT estratigrafia_sedime_pk PRIMARY KEY ("Guid"),
1447     CONSTRAINT estaciones_estratigra_fk FOREIGN KEY ("UUID")
1448 REFERENCES "Estaciones" ("Guid")
1449 );
1450 CREATE INDEX estratigra_guid_idx ON "EstratigrafiaSedimentologica"
    ("Guid");

CREATE TABLE "EventosMorfodinam" (
    "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
    "UUID" VARCHAR (22) NOT NULL,

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        "Tipo" Dom_TipoMov NOT NULL,
        "Subtipo" Dom_SubtMM NOT NULL,
        "Parte" Dom_Parte NOT NULL,
        "Etiqueta" VARCHAR (3) NOT NULL,
        "Estilo" Dom_EstiloMM NOT NULL,
        "Longitud" DOUBLE PRECISION NOT NULL,
        "Ancho" DOUBLE PRECISION NOT NULL,
        "Estado" Dom_EstadoMM NOT NULL,
        "Observa" VARCHAR (300),
        geometria GEOMETRY (POINT, 3116),
        CONSTRAINT eventos_morfodinam_pk PRIMARY KEY ("Guid"),
        CONSTRAINT estaciones_eventos_mo_fk FOREIGN KEY ("UUID")
REFERENCES "Estaciones" ("Guid")
);
CREATE INDEX eventos_mo_guid_idx ON "EventosMorfodinam" ("Guid");

```

```

CREATE TABLE "GCP" (
    "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
    "UUID" VARCHAR (22) NOT NULL,
    "Nombre" VARCHAR (60),
    geometria GEOMETRY (POINT, 3116),
    CONSTRAINT gcp_pk PRIMARY KEY ("Guid"),
    CONSTRAINT estaciones_gcp_fk FOREIGN KEY ("UUID") REFERENCES
"Estaciones" ("Guid")
);
CREATE INDEX gcp_guid_idx ON "GCP" ("Guid");

```

```

CREATE TABLE "GeofisicaLN" (
    "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
    "UUID" VARCHAR (22) NOT NULL,
    "Long" DOUBLE PRECISION GENERATED ALWAYS AS
(ST_Length(geometria)::DOUBLE PRECISION) STORED,
    "Metodo" Dom_MetGeof NOT NULL,
    "Unidad" Dom_UnidadGeof NOT NULL,
    "Perfil" VARCHAR (10),
    "Tipo_Mallado" Dom_Mallado NOT NULL,
    "Tecnica" Dom_TipoTecnica NOT NULL,
    "Observa" VARCHAR (300),
    geometria GEOMETRY (LINESTRING, 3116),
    CONSTRAINT geofisica_ln_pk PRIMARY KEY ("Guid"),
    CONSTRAINT estaciones_geofisica_ln_fk FOREIGN KEY ("UUID")
REFERENCES "Estaciones" ("Guid")
);
CREATE INDEX geofisica_ln_guid_idx ON "GeofisicaLN" ("Guid");

```

```

CREATE TABLE "GeofisicaPG" (
    "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
    "UUID" VARCHAR (22) NOT NULL,
    "Area (ha)" DOUBLE PRECISION GENERATED ALWAYS AS

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(ST_Area(geometria) / 10000.0) STORED,
    "Metodo" Dom_MetGeof NOT NULL,
    "Unidad" Dom_UnidadGeof NOT NULL,
    "Perfil" VARCHAR (10),
    "Tipo_Mallado" Dom_Mallado NOT NULL,
    "Tecnica" Dom_TipoTecnica NOT NULL,
    "Observa" VARCHAR (300),
    geometria GEOMETRY (POLYGON, 3116),
    CONSTRAINT geofisica_pg_pk PRIMARY KEY ("Guid"),
    CONSTRAINT estaciones_geofisica_pg_fk FOREIGN KEY ("UUID")
REFERENCES "Estaciones" ("Guid")
);
CREATE INDEX geofisica_pg_guid_idx ON "GeofisicaPG" ("Guid");

CREATE TABLE "Pliegues_PT" (
    "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
    "UUID" VARCHAR (22) NOT NULL,
    "Pliegue_Geom" Dom_Pliegue_Geom,
    "Pliegue_Estrat" Dom_Pliegue_Estrat,
    "Pliegue_Anageom" Dom_Pliegue_AnaGeom,
    "Pliegue_Config" Dom_Pliegue_Config,
    "Pliegue_Aper" Dom_Pliegue_Aper,
    "Pliegue_Estilo" Dom_Pliegue_Estilo,
    "Observa" VARCHAR (300),
    geometria GEOMETRY (POINT, 3116),
    CONSTRAINT pliegues_pt_pk PRIMARY KEY ("Guid"),
    CONSTRAINT estaciones_pliegues_pt_fk FOREIGN KEY ("UUID")
REFERENCES "Estaciones" ("Guid")
);
CREATE INDEX pliegues_pt_guid_idx ON "Pliegues_PT" ("Guid");

CREATE TABLE "Proceso_Morfodina_PT" (
    "Guid" UUID DEFAULT uuid_generate_v4() NOT NULL,
    "UUID" VARCHAR (22) NOT NULL,
    "Tipo_Proceso" Dom_ProcesoMorfodin NOT NULL,
    "Nombre" Dom_NombProceso NOT NULL,
    "Estado" Dom_EstadoProceso NOT NULL,
    "Observa" VARCHAR (300),
    geometria GEOMETRY (POINT, 3116),
    CONSTRAINT proceso_morfodina_pt_pk PRIMARY KEY ("Guid"),
    CONSTRAINT estaciones_proceso_mo_fk FOREIGN KEY ("UUID")
REFERENCES "Estaciones" ("Guid")
);
CREATE INDEX proceso_mo_guid_idx_2 ON "Proceso_Morfodina_PT"
("Guid");

```