```sql
1   /*
2       primer modelo de la base de datos para Piero
3   */
4   CREATE DATABASE Piero_DBTest;
5   USE    Piero_DBTest;
6
7   /* /////////////////////////////////////////////////////////////////////////////////////////////
8                                   DEFINICION DE TABLAS
9   ///////////////////////////////////////////////////////////////////////////////////////////// */
10
11  /* ****************************************************************************************************
12  *   Datos Cliente
13  ****************************************************************************************************/
14
15  /* Datos 'fijos' */
16
17  CREATE TABLE TClientes( /*tab Customers DB*/
18      ID   int UNSIGNED NOT NULL AUTO_INCREMENT,
19      CustomerNumber varchar(8) NOT NULL UNIQUE,
20      CompanyName varchar(50) NOT NULL,
21      StartDate Date,
22      SalesAgent varchar(50),
23      CreditLimit int UNSIGNED DEFAULT '0',
24      Email varchar(50),
25      MobileNo varchar(13),
26      Comments varchar(500),
27      PRIMARY KEY (ID),
28      FULLTEXT KEY buscador (CustomerNumber,CompanyName,SalesAgent,Email,MobileNo,Comments )
29  )ENGINE=InnoDB DEFAULT CHARSET=latin1;
30
31  /* Datos Semanales*/
32
33  CREATE TABLE TSemanaCliente(
34      ID_semana SMALLINT(4) UNSIGNED NOT NULL,
35      ID_cliente INT UNSIGNED NOT NULL,
36      ID_CustomerType TINYINT (2) UNSIGNED,
37      ID_Group TINYINT(3) UNSIGNED,
38      Stop BOOLEAN DEFAULT FALSE,
39      PRIMARY KEY (ID_semana,ID_cliente)
40  )ENGINE=InnoDB DEFAULT CHARSET=latin1;
41
42  /* Tipo de Cliente */
43
44  CREATE TABLE TCustomerType(
45      ID   TINYINT (2) UNSIGNED NOT NULL AUTO_INCREMENT,
46      CustomerType varchar(50) NOT NULL UNIQUE,
47      PRIMARY KEY (ID)
48  )ENGINE=InnoDB DEFAULT CHARSET=latin1;
49
50  /* Cliente referencia */
51
52  CREATE TABLE TGroup(
53      ID TINYINT (3)UNSIGNED NOT NULL AUTO_INCREMENT,
54      Grupo  TINYINT UNSIGNED NOT NULL UNIQUE,
55      Relatedto int UNSIGNED  UNIQUE, /*Cliente de referencia*/
56      PRIMARY KEY (ID)
57  )ENGINE=InnoDB DEFAULT CHARSET=latin1;
58
59  /* ****************************************************************************************************
60  *   Datos Pais
61  ****************************************************************************************************/
62
63  /* Datos 'fijos' */
64
65  CREATE TABLE TPais(
66      ID TINYINT (3)UNSIGNED NOT NULL AUTO_INCREMENT,
67      Codigo_pais CHAR (2) UNIQUE NOT NULL,
68      PRIMARY KEY (ID)
69  )ENGINE=InnoDB DEFAULT CHARSET=latin1;
70
71
72
73
```

```sql
 74    /* Datos Semanales*/
 75
 76    CREATE TABLE TSemanaPais(
 77        ID_semana SMALLINT(4) UNSIGNED NOT NULL,
 78        ID_pais TINYINT (3) UNSIGNED NOT NULL,
 79        ID_moneda TINYINT UNSIGNED,
 80        IVA TINYINT UNSIGNED,
 81        Litros SMALLINT UNSIGNED,
 82        PRIMARY KEY (ID_semana,ID_pais)
 83    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
 84
 85    /* Zona */
 86
 87    CREATE TABLE Tzona(
 88        Codigo_pais CHAR (2) NOT NULL,
 89        numero TINYINT (2) NOT NULL DEFAULT '1',
 90        letra char(1) DEFAULT '',
 91        ID TINYINT (2) UNSIGNED NOT NULL UNIQUE AUTO_INCREMENT,
 92        PRIMARY KEY (Codigo_pais,numero,letra)
 93    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
 94
 95    /* ISO 3166-1 Alpha-2 code */
 96
 97    CREATE TABLE TcodigoPais(
 98        Codigo_pais CHAR (2) NOT NULL,
 99        Nombre varchar(50),
100        PRIMARY KEY (Codigo_pais)
101    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
102
103    /* Moneda */
104
105    CREATE TABLE Tmoneda(
106        ID TINYINT UNSIGNED NOT NULL,
107        Nombre varchar(50),
108        Simbolo varchar (6),
109        PRIMARY KEY (ID)
110    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
111
112    /* **********************************************************************************
113     *  Precios Zona
114     **********************************************************************************/
115
116    /* Precio Coste*/
117
118    CREATE TABLE TSemanaPrecio(
119        ID_semana SMALLINT(4) UNSIGNED NOT NULL,
120        ID_zona TINYINT (2) UNSIGNED NOT NULL,
121        Precio_EU DECIMAL(20,15) UNSIGNED, /*precio en eu*/
122        Precio_MoN DECIMAL(20,15) UNSIGNED, /*precio en Moneda nacional*/
123        PRIMARY KEY (ID_semana,ID_zona)
124    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
125
126    /* Margen de venta*/
127
128    CREATE TABLE TSemanaMargen(
129        ID_semana SMALLINT(4) UNSIGNED NOT NULL,
130        ID_zona TINYINT (2) UNSIGNED NOT NULL,
131        ID_CustomerType TINYINT (2) UNSIGNED,
132        Margen DECIMAL(20,15),
133        PRIMARY KEY (ID_semana,ID_zona,ID_CustomerType)
134    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
135
136    /* **********************************************************************************
137     *  Calendario
138     **********************************************************************************/
139
140    CREATE TABLE TAno (
141        ID TINYINT (4) UNSIGNED NOT NULL AUTO_INCREMENT,
142        Ano varchar(4) NOT NULL UNIQUE,
143        Estado  BOOLEAN DEFAULT TRUE, /* 'TRUE': año en curso, 'FALSE':año cerrado */
144        PRIMARY KEY (ID)
145    )ENGINE=InnoDB DEFAULT CHARSET=latin1;
146
```

```sql
147  CREATE TABLE TSemana (
148      No_semana TINYINT(2) UNSIGNED NOT NULL,/*1-52*/
149      ID_ano TINYINT (4) UNSIGNED NOT NULL,
150      ID SMALLINT(4) UNSIGNED NOT NULL UNIQUE AUTO_INCREMENT,
151      Semana varchar(8) NOT NULL,/*13/10/14*/
152      Estado  TINYINT(1) NOT NULL DEFAULT '1',/* -1: Obsoleta,0: cerrada, 1-N :Estado N del proceso */
153      PRIMARY KEY (No_semana,ID_ano)
154  )ENGINE=InnoDB DEFAULT CHARSET=latin1;
155
156  /* //////////////////////////////////////////////////////////////////////////////////////
157                              RELACION  DE TABLAS
158  ////////////////////////////////////////////////////////////////////////////////////// */
159
160  ALTER TABLE `TSemanaCliente`
161      ADD CONSTRAINT `TSemanaCliente_ibfk_1`
162          FOREIGN KEY (`ID_semana`)
163          REFERENCES `tsemana` (`ID`)
164          ON DELETE CASCADE ON UPDATE CASCADE,
165      ADD CONSTRAINT `TSemanaCliente_ibfk_2`
166          FOREIGN KEY (`ID_cliente`)
167          REFERENCES `tclientes` (`ID`)
168          ON DELETE CASCADE ON UPDATE CASCADE,
169      ADD CONSTRAINT `TSemanaCliente_ibfk_3`
170          FOREIGN KEY (`ID_CustomerType`)
171          REFERENCES `TCustomerType` (`ID`)
172          ON DELETE SET NULL ON UPDATE CASCADE,
173      ADD CONSTRAINT `TSemanaCliente_ibfk_4`
174          FOREIGN KEY (`ID_Group`)
175          REFERENCES `tgroup` (`ID`)
176          ON DELETE SET NULL ON UPDATE CASCADE;
177
178  ALTER TABLE `TSemanaPais`
179      ADD CONSTRAINT `TSemanaPais_ibfk_1`
180          FOREIGN KEY (`ID_semana`)
181          REFERENCES `tsemana` (`ID`)
182          ON DELETE CASCADE ON UPDATE CASCADE,
183      ADD CONSTRAINT `TSemanaPais_ibfk_2`
184          FOREIGN KEY (`ID_pais`)
185          REFERENCES `tpais` (`ID`)
186          ON DELETE CASCADE ON UPDATE CASCADE,
187      ADD CONSTRAINT `TSemanaPais_ibfk_3`
188          FOREIGN KEY (`ID_moneda`)
189          REFERENCES `Tmoneda` (`ID`)
190          ON DELETE SET NULL ON UPDATE CASCADE;
191
192  ALTER TABLE `TSemanaPrecio`
193      ADD CONSTRAINT `TSemanaPrecio_ibfk_1`
194          FOREIGN KEY (`ID_semana`)
195          REFERENCES `tsemana` (`ID`)
196          ON DELETE CASCADE ON UPDATE CASCADE,
197      ADD CONSTRAINT `TSemanaPrecio_ibfk_2`
198          FOREIGN KEY (`ID_zona`)
199          REFERENCES `Tzona` (`ID`)
200          ON DELETE CASCADE ON UPDATE CASCADE;
201
202  ALTER TABLE `TSemanaMargen`
203      ADD CONSTRAINT `TSemanaMargen_ibfk_1`
204          FOREIGN KEY (`ID_semana`)
205          REFERENCES `tsemana` (`ID`)
206          ON DELETE CASCADE ON UPDATE CASCADE,
207      ADD CONSTRAINT `TSemanaMargen_ibfk_2`
208          FOREIGN KEY (`ID_zona`)
209          REFERENCES `Tzona` (`ID`)
210          ON DELETE CASCADE ON UPDATE CASCADE,
211      ADD CONSTRAINT `TSemanaMargen_ibfk_3`
212          FOREIGN KEY (`ID_CustomerType`)
213          REFERENCES `TCustomerType` (`ID`)
214          ON DELETE CASCADE ON UPDATE CASCADE;
215
216
217
218
219
```

```
220    ALTER TABLE `TPais`
221        ADD CONSTRAINT `TPais_ibfk_1`
222            FOREIGN KEY (`Codigo_pais`)
223            REFERENCES `TcodigoPais` (`Codigo_pais`)
224            ON DELETE CASCADE ON UPDATE CASCADE;
225
226    ALTER TABLE `Tzona`
227        ADD CONSTRAINT `Tzona_ibfk_1`
228            FOREIGN KEY (`Codigo_pais`)
229            REFERENCES `TcodigoPais` (`Codigo_pais`)
230            ON DELETE CASCADE ON UPDATE CASCADE;
231
232    ALTER TABLE `tsemana`
233        ADD CONSTRAINT `TSemana_ibfk_1`
234            FOREIGN KEY (`ID_ano`)
235            REFERENCES `tano` (`ID`)
236            ON DELETE CASCADE ON UPDATE CASCADE;
237
238    ALTER TABLE `tgroup`
239        ADD CONSTRAINT `TGroup_ibfk_1`
240            FOREIGN KEY (`Relatedto`)
241            REFERENCES `tclientes` (`ID`)
242            ON DELETE SET NULL ON UPDATE CASCADE;
243
```