

Practica-1-Resuelta.pdf



PedroChota



GESTIÓN Y ADMINISTRACIÓN DE BASES DE DATOS



3º Grado en Ingeniería Informática



**Escuela Politécnica Superior (Jaén)
Universidad de Jaén**

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ESTUDIAR QUEMA, PERO FLAMIN' HOT QUEMA MÁS

Wuolah: PedroChota

Práctica 1 - Resuelta

ing_data.sql:

```
1  INSERT INTO Bank VALUES (1465, 'ING Direct');
2  INSERT INTO Bank VALUES (3067, 'Caja Rural de Jaén');
3  INSERT INTO Bank VALUES (0049, 'Banco Santander');
4
5  INSERT INTO Office values (1465,1,'Oficina Virtual de ING DIRECT
6  1', 'Oficina virtual');
7  INSERT INTO Office values (1465,13,'Oficina Naranja de ING DIRECT
8  13', 'C/ Neptuno 6, 18004 Granada');
9  INSERT INTO Office values (1465,3,'Oficina Naranja de ING DIRECT
10 3', 'Avda. Luis Morales 32 Edificio Forum, 41018 Sevilla');
11 INSERT INTO Office values (3067,47,'Oficina de Caja Rural de Jaen
12 47', 'Avda. de Andalucia, 83 Edificio Royal de Jaén, 23005
13 Jaén');
14 INSERT INTO Office values (3067,1,'Oficina Central de Caja Rural
15 de Jaén 1', 'Paseo de la Estación nº3');
16 INSERT INTO Office values (0049,1653,'Oficina de Banco Santander
17 en Jaén', 'Calle Arquitecto Berges, 6, 23007, Jaén (Jaén)');
18
19 INSERT INTO Owner values ('26105629X', 'Carlos', 'Almagro',
20 'Rubio');
21 INSERT INTO Owner values ('73505320Z', 'María', 'Jiménez',
22 'Rota');
23 INSERT INTO Owner values ('73505320B', 'Susana', 'Ledesma',
24 'Torres');
25 INSERT INTO Owner values ('73505828A', 'Alfredo', 'Ledesma',
26 'Torres');
27 INSERT INTO Owner values ('20518826D', 'Marcos', 'Quesada',
28 'Sánchez');
29 INSERT INTO Owner values ('50595329D', 'Daniel', 'Domínguez',
30 'Palomino');
31 INSERT INTO Owner values ('33005891X', 'Rosa', 'Sáez',
32 'Aguilera');
33 INSERT INTO Owner values ('43595301F', 'Ana', 'Martínez',
34 'Sánchez');
35 INSERT INTO Owner values ('73505071V', 'Teresa', 'Araque',
36 'Galiano');
37 INSERT INTO Owner values ('53510321B', 'Manuel', 'Quesada',
38 'Sánchez');
39 INSERT INTO Owner values ('73009841C', 'Maria Luisa', 'Martos',
40 'Ortega');
41 INSERT INTO Owner values ('60505326A', 'Maria José', 'Jiménez',
42 'Abad');
43 INSERT INTO Owner values ('77535822S', 'Pedro', 'Sánchez',
44 'Sánchez');
45 INSERT INTO Owner values ('75529325T', 'Raul', 'Moreno',
46 'Torquemada');
47 INSERT INTO Owner values ('73515322R', 'Sandra', 'Palop',
48 'Lanzas');
```

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50
51 INSERT INTO Client values ('26105629X', 'married', '02-MAY-1980');
52 INSERT INTO Client values ('73505320Z', 'married', '02-MAY-1983');
53 INSERT INTO Client values ('73505320B', 'widow', '02-MAY-1970');
54 INSERT INTO Client values ('73505828A', 'married', '02-MAY-1951');
55 INSERT INTO Client values ('20518826D', 'single', '02-MAY-1979');
56 INSERT INTO Client values ('50595329D', 'married', '02-MAY-1962');
57 INSERT INTO Client values ('33005891X', 'single', '02-MAY-1982');
58 INSERT INTO Client values ('43595301F', 'married', '02-MAY-1967');
59 INSERT INTO Client values ('73505071V', 'single', '02-MAY-1956');
60 INSERT INTO Client values ('53510321B', 'single', '02-MAY-1955');
61
62 INSERT INTO OwnerAsAc values ('26105629X');
63 INSERT INTO OwnerAsAc values ('73505320Z');
64 INSERT INTO OwnerAsAc values ('73009841C');
65 INSERT INTO OwnerAsAc values ('60505326A');
66 INSERT INTO OwnerAsAc values ('77535822S');
67 INSERT INTO OwnerAsAc values ('75529325T');
68 INSERT INTO OwnerAsAc values ('73515322R');
69
70
71 INSERT INTO Account VALUES (1,1465,1,1,1000);
72 INSERT INTO Account VALUES (2,1465,1,2,10023);
73 INSERT INTO Account VALUES (3,1465,1,3,-1503);
74 INSERT INTO Account VALUES (4,1465,1,4,7002);
75 INSERT INTO Account VALUES (5,1465,1,5,51004);
76 INSERT INTO Account VALUES (6,1465,1,6,141002);
77 INSERT INTO Account VALUES (7,1465,1,7,3209);
78 INSERT INTO Account VALUES (8,1465,1,8,-1001);
79 INSERT INTO Account VALUES (9,1465,1,9,105);
80 INSERT INTO Account VALUES (10,1465,1,10,10404);
81 INSERT INTO Account VALUES (11,1465,3,1,10603);
82 INSERT INTO Account VALUES (12,1465,3,2,17002);
83 INSERT INTO Account VALUES (13,1465,3,3,506);
84 INSERT INTO Account VALUES (14,1465,13,1,10);
85 INSERT INTO Account VALUES (15,1465,13,2,10009);
86
87 INSERT INTO Account VALUES (16,3067,47,341,10603);
88 INSERT INTO Account VALUES (17,3067,47,12,17602);
89 INSERT INTO Account VALUES (18,3067,47,2342,5069);
90 INSERT INTO Account VALUES (19,3067,47,1227,-10);
91 INSERT INTO Account VALUES (20,3067,1,92,1065);
92
93 INSERT INTO Account VALUES (21,0049,1653,21,429);
94 INSERT INTO Account VALUES (22,0049,1653,1025,2);
95 INSERT INTO Account VALUES (23,0049,1653,143,61503);
96 INSERT INTO Account VALUES (24,0049,1653,412,-7002);
97 INSERT INTO Account VALUES (25,0049,1653,5,5100);
98
99
100 INSERT INTO ING_Account values(1,'Orange account', 'C/ Manuel
101 Caballero 13, 23009, Jaen');
102 INSERT INTO ING_Account values(2,'Orange account', 'C/ Mesones 12,
103 23008, Jaen');
104 INSERT INTO ING_Account values(3,'fiscal savings account','Avda.
105 Andalucía 134, 41019, Sevilla');
106

```


1. EXISTEN TRES TIPOS DE ESCALA PARA MEDIR LA TEMPERATURA. ¿CUÁLES SON?

- A) CELSIUS, FAHRENHEIT Y KELVIN**
- B) DORITOS FLAMIN' HOT, RUFFLES FLAMIN' HOT Y CHEETOS FLAMIN' HOT**

2. SI PABLO TIENE 9 DORITOS FLAMIN' HOT Y MARÍA LE QUITA UNO, ¿QUIÉN SE PICA MÁS?

- A) PABLO**
- B) LA LENGUA DE MARÍA**

3. UN TREN SALE DE MADRID A 200 KM/H A LAS 9 AM, Y OTRO DE BARCELONA A 100 KM/H A LAS 10 AM... Y TÚ, ¿ESTÁS FLAMIN' HOT?

- A) EL DE BARCELONA**
- B) SÍ, ESTOY FLAMIN' HOT**

SI HAS RESPONDIDO B) A TODAS LAS PREGUNTAS, ENHORABUENA, ESTÁS FLAMIN' HOT

SI HAS RESPONDIDO A) EN CUALQUIERA DE ELLAS, VUELVE AL INICIO DEL TEST



GESTIÓN Y ADMINISTRACIÓN DE...



Comparte estos flyers en tu clase y consigue más dinero y recompensas



Banco de apuntes de la

WUOLAH

- 1** Imprime esta hoja
- 2** Recorta por la mitad
- 3** Coloca en un lugar visible para que tus compis puedan escanar y acceder a apuntes

- 4** Llévate dinero por cada descarga de los documentos descargados a través de tu QR



```

107 INSERT INTO ING_Account values(4,'Orange account', 'C/ Almendros
108 Aguilar 13, 23007, Jaen');
109 INSERT INTO ING_Account values(5,'Orange account', 'Avda. Madrid
110 16 5A, 23009, Jaen');
111 INSERT INTO ING_Account values(6,'Orange account', 'C/ Paseo de la
112 Estación 3 4A, 23007, Jaen');
113 INSERT INTO ING_Account values(7,'home savings account','C/ Rioja
114 23, 23009, Jaen');
115 INSERT INTO ING_Account values(8,'home savings account','C/ Fuente
116 de la Plata 18 2C, 23009, Jaen');
117 INSERT INTO ING_Account values(9,'Orange account', 'C/ Adarbes
118 Bajos 113 7B, 23007, Jaen');
119 INSERT INTO ING_Account values(10,'fiscal savings account','C/
120 Ruiz Jiménez 27 2A, 23009, Jaen');
121 INSERT INTO ING_Account values(11,'Orange account', 'C/ Angulo 3,
122 18002, Granada');
123 INSERT INTO ING_Account values(12,'Orange account', 'Avda.
124 Andalucía 34 6D, 23009, Jaen');
125 INSERT INTO ING_Account values(13,'deposit account', 'C/ Cataluña
126 83 4C, 23009, Jaen');
127 INSERT INTO ING_Account values(14,'Orange account', 'C/
128 Salsipuedes 2, 23009, Jaen');
129 INSERT INTO ING_Account values(15,'deposit account', 'C/ Alameda 55
130 3A, 23009, Jaen');
131
132 INSERT INTO Associated_Account values(16);
133 INSERT INTO Associated_Account values(17);
134 INSERT INTO Associated_Account values(18);
135 INSERT INTO Associated_Account values(19);
136 INSERT INTO Associated_Account values(20);
137 INSERT INTO Associated_Account values(21);
138 INSERT INTO Associated_Account values(22);
139 INSERT INTO Associated_Account values(23);
140 INSERT INTO Associated_Account values(24);
141 INSERT INTO Associated_Account values(25);
142
143 INSERT INTO "INGAc-AsAc" VALUES (1,16);
144 INSERT INTO "INGAc-AsAc" VALUES (1,17);
145 INSERT INTO "INGAc-AsAc" VALUES (3,18);
146 INSERT INTO "INGAc-AsAc" VALUES (5,19);
147 INSERT INTO "INGAc-AsAc" VALUES (5,20);
148 INSERT INTO "INGAc-AsAc" VALUES (5,21);
149 INSERT INTO "INGAc-AsAc" VALUES (6,22);
150 INSERT INTO "INGAc-AsAc" VALUES (7,23);
151 INSERT INTO "INGAc-AsAc" VALUES (9,24);
152 INSERT INTO "INGAc-AsAc" VALUES (11,25);
153
154
155 INSERT INTO "Cli-Acc" values (1,'26105629X',10);
156 INSERT INTO "Cli-Acc" values (2,'26105629X',12);
157 INSERT INTO "Cli-Acc" values (3,'73505320Z',11);
158 INSERT INTO "Cli-Acc" values (4,'73505320B',14);
159 INSERT INTO "Cli-Acc" values (5,'73505320B',2);
160 INSERT INTO "Cli-Acc" values (6,'73505828A',3);
161 INSERT INTO "Cli-Acc" values (7,'20518826D',5);
162 INSERT INTO "Cli-Acc" values (8,'50595329D',4);
163

```



```

164 INSERT INTO "Cli-Acc" values (9, '33005891X', 5);
165 INSERT INTO "Cli-Acc" values (10, '43595301F', 7);
166 INSERT INTO "Cli-Acc" values (11, '73505071V', 8);
167 INSERT INTO "Cli-Acc" values (12, '53510321B', 1);
168 INSERT INTO "Cli-Acc" values (13, '53510321B', 9);
169 INSERT INTO "Cli-Acc" values (14, '26105629X', 13);
170 INSERT INTO "Cli-Acc" values (15, '73505320Z', 6);
171 INSERT INTO "Cli-Acc" values (16, '73505320B', 6);
172 INSERT INTO "Cli-Acc" values (17, '73505828A', 2);
173 INSERT INTO "Cli-Acc" values (18, '20518826D', 13);
174
175 INSERT INTO "OwnerAsAc-AsAc" VALUES (1, '26105629X', 16);
176 INSERT INTO "OwnerAsAc-AsAc" VALUES (2, '26105629X', 20);
177 INSERT INTO "OwnerAsAc-AsAc" VALUES (3, '73505320Z', 17);
178 INSERT INTO "OwnerAsAc-AsAc" VALUES (4, '73505320Z', 18);
179 INSERT INTO "OwnerAsAc-AsAc" VALUES (5, '73009841C', 19);
180 INSERT INTO "OwnerAsAc-AsAc" VALUES (6, '60505326A', 20);
181 INSERT INTO "OwnerAsAc-AsAc" VALUES (7, '60505326A', 21);
182 INSERT INTO "OwnerAsAc-AsAc" VALUES (8, '77535822S', 22);
183 INSERT INTO "OwnerAsAc-AsAc" VALUES (9, '77535822S', 23);
184 INSERT INTO "OwnerAsAc-AsAc" VALUES (10, '75529325T', 24);
185 INSERT INTO "OwnerAsAc-AsAc" VALUES (11, '73515322R', 25);
186 INSERT INTO "OwnerAsAc-AsAc" VALUES (12, '73515322R', 16);
187 INSERT INTO "OwnerAsAc-AsAc" VALUES (13, '73515322R', 17);
188 INSERT INTO "OwnerAsAc-AsAc" VALUES (14, '73505320Z', 16);
189 INSERT INTO "OwnerAsAc-AsAc" VALUES (15, '73515322R', 23);
190
191 INSERT INTO Service VALUES (1, 'ING SEGUROS');
192 INSERT INTO Service VALUES (2, 'ING FONDOS');
193 INSERT INTO Service VALUES (3, 'ING BROKER');
194 INSERT INTO Service VALUES (4, 'ING HIPOTECA');
195
196 INSERT INTO "Client-Service" VALUES ('26105629X', 1);
197 INSERT INTO "Client-Service" VALUES ('26105629X', 2);
198 INSERT INTO "Client-Service" VALUES ('73505320Z', 3);
199 INSERT INTO "Client-Service" VALUES ('73505320B', 4);
200 INSERT INTO "Client-Service" VALUES ('73505320B', 1);
201 INSERT INTO "Client-Service" VALUES ('73505828A', 2);
202 INSERT INTO "Client-Service" VALUES ('20518826D', 3);
203
204
205 INSERT INTO Fund values (1, 'Renta Variable Global FIMF');
206 INSERT INTO Fund values (2, 'Mixto Europeo');
207 INSERT INTO Fund values (3, 'IBEX 35');
208
209 INSERT INTO Operation values (1, TO_DATE('2014-11-02 19:27:14',
210 'yyyy-mm-dd hh24:mi:ss'), 1);
211 INSERT INTO Operation values (2, TO_DATE('2015-02-22 15:08:00',
212 'yyyy-mm-dd hh24:mi:ss'), 2);
213 INSERT INTO Operation values (3, TO_DATE('2015-01-23 19:02:41',
214 'yyyy-mm-dd hh24:mi:ss'), 3);
215 INSERT INTO Operation values (4, TO_DATE('2015-01-30 14:07:01',
216 'yyyy-mm-dd hh24:mi:ss'), 4);
217 INSERT INTO Operation values (5, TO_DATE('2015-03-04 19:01:09',
218 'yyyy-mm-dd hh24:mi:ss'), 5);
219 INSERT INTO Operation values (6, TO_DATE('2015-03-08 13:32:46',
220 'yyyy-mm-dd hh24:mi:ss'), 6);

```

ESTUDIAR QUEMA, PERO **FLAMIN' HOT** QUEMA MÁS

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```
221 INSERT INTO Operation values (7,TO_DATE('2015-07-09 19:46:56',
222 'yyyy-mm-dd hh24:mi:ss'),7);
223 INSERT INTO Operation values (8,TO_DATE('2015-07-01 11:05:54',
224 'yyyy-mm-dd hh24:mi:ss'),8);
225 INSERT INTO Operation values (9,TO_DATE('2015-03-12 12:01:45',
226 'yyyy-mm-dd hh24:mi:ss'),9);
227 INSERT INTO Operation values (10,TO_DATE('2014-11-20 10:00:52',
228 'yyyy-mm-dd hh24:mi:ss'),10);
229 INSERT INTO Operation values (11,TO_DATE('2015-10-11 11:12:40',
230 'yyyy-mm-dd hh24:mi:ss'),11);
231 INSERT INTO Operation values (12,TO_DATE('2015-03-17 17:15:34',
232 'yyyy-mm-dd hh24:mi:ss'),12);
233 INSERT INTO Operation values (13,TO_DATE('2015-04-01 19:51:24',
234 'yyyy-mm-dd hh24:mi:ss'),13);
235 INSERT INTO Operation values (14,TO_DATE('2015-05-06 13:17:14',
236 'yyyy-mm-dd hh24:mi:ss'),14);
INSERT INTO Operation values (15,TO_DATE('2015-06-02 19:09:06',
'yyyy-mm-dd hh24:mi:ss'),15);
INSERT INTO Operation values (16,TO_DATE('2015-08-03 12:08:41',
'yyyy-mm-dd hh24:mi:ss'),1);
INSERT INTO Operation values (17,TO_DATE('2015-07-02 14:07:23',
'yyyy-mm-dd hh24:mi:ss'),2);
INSERT INTO Operation values (18,TO_DATE('2015-07-02 15:05:58',
'yyyy-mm-dd hh24:mi:ss'),3);
INSERT INTO Operation values (19,TO_DATE('2015-02-02 12:21:00',
'yyyy-mm-dd hh24:mi:ss'),4);
INSERT INTO Operation values (20,TO_DATE('2015-03-02 13:29:59',
'yyyy-mm-dd hh24:mi:ss'),5);

INSERT INTO OP_D VALUES (1,12000,'once',5);
INSERT INTO OP_D VALUES (2,1500,'monthly',7);
INSERT INTO OP_D VALUES (3,1000,'annual',11);

INSERT INTO OP_I VALUES (4,0049,1653,000675,450);
INSERT INTO OP_I VALUES (5,1465,1,001242,5000);
INSERT INTO OP_I VALUES (6,0049,1653,000431,8900);
INSERT INTO OP_I VALUES (7,1465,13,014675,50);

INSERT INTO OP_MCA VALUES (8,'F',1);
INSERT INTO OP_MCA VALUES (9,'T',2);
INSERT INTO OP_MCA VALUES (10,'F',3);
INSERT INTO OP_MCA VALUES (11,'F',5);

INSERT INTO OP_OI VALUES (12,12000,'once',5);
INSERT INTO OP_OI VALUES (13,1500,'monthly',7);
INSERT INTO OP_OI VALUES (14,1000,'annual',11);

INSERT INTO OP_OSRFI VALUES (15, 5123, 1500, 'subscription',1);
INSERT INTO OP_OSRFI VALUES (16,41455, 23000, 'subscription',2);
INSERT INTO OP_OSRFI VALUES (17, 52453, 15500, 'subscription',3);
INSERT INTO OP_OSRFI VALUES (18, 5669, 800, 'refund',1);
INSERT INTO OP_OSRFI VALUES (19, 5023, 22900, 'subscription',3);
```

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INSERT INTO OP_OSRFI VALUES (20, 12580, 10500, 'subscription',2);

INSERT INTO Internet VALUES(1,'147.214.189.231',TO_DATE('2014-11-02 19:20:14','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2014-11-02 19:28:14','yyyy-mm-dd hh24:mi:ss'), NULL,1,NULL,NULL);
INSERT INTO Internet VALUES(2,'147.054.209.232',TO_DATE('2015-02-22 15:00:00','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-02-22 15:08:20','yyyy-mm-dd hh24:mi:ss'), NULL,2,NULL,NULL);
INSERT INTO Internet VALUES(3,'143.212.101.135',TO_DATE('2015-01-23 19:01:04','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-01-23 19:02:51','yyyy-mm-dd hh24:mi:ss'), NULL,3,NULL,NULL);
INSERT INTO Internet VALUES(4,'137.115.109.201',TO_DATE('2015-07-01 11:04:54','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-07-01 11:06:54','yyyy-mm-dd hh24:mi:ss'), 8,NULL,NULL,NULL);
INSERT INTO Internet VALUES(5,'182.114.182.245',TO_DATE('2015-03-12 12:00:45','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-03-12 12:02:45','yyyy-mm-dd hh24:mi:ss'), 9,NULL,NULL,NULL);
INSERT INTO Internet VALUES(6,'147.014.109.131',TO_DATE('2014-11-20 10:00:02','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2014-11-20 10:01:52','yyyy-mm-dd hh24:mi:ss'), 10,NULL,NULL,NULL);
INSERT INTO Internet VALUES(7,'147.214.189.231',TO_DATE('2015-03-17 17:13:34','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-03-17 17:15:34','yyyy-mm-dd hh24:mi:ss'), NULL,NULL,12,NULL);
INSERT INTO Internet VALUES(15,'147.214.189.231',TO_DATE('2015-04-01 19:50:24','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-04-01 19:55:24','yyyy-mm-dd hh24:mi:ss'), NULL,NULL,13,NULL);
INSERT INTO Internet VALUES(16,'147.214.189.231',TO_DATE('2015-05-06 13:15:14','yyyy-mm-dd hh24:mi:ss'),TO_DATE('2015-05-06 13:17:54','yyyy-mm-dd hh24:mi:ss'), NULL,NULL,14,NULL);

INSERT INTO Telephone Values(9,'953222227',TO_DATE('2015-03-17 17:15:34','yyyy-mm-dd hh24:mi:ss'),17,NULL,NULL,15);
INSERT INTO Telephone Values(10,'953222227',TO_DATE('2015-04-01 19:51:24','yyyy-mm-dd hh24:mi:ss'),17,NULL,NULL,16);
INSERT INTO Telephone Values(11,'953222224',TO_DATE('2015-05-06 13:17:14','yyyy-mm-dd hh24:mi:ss'),14,NULL,NULL,17);
INSERT INTO Telephone Values(12,'953222222',TO_DATE('2015-07-02 15:05:58','yyyy-mm-dd hh24:mi:ss'),12,NULL,NULL,18);
INSERT INTO Telephone Values(13,'953222222',TO_DATE('2015-02-02 12:21:00','yyyy-mm-dd hh24:mi:ss'),12,NULL,NULL,19);
INSERT INTO Telephone Values(14,'953222224',TO_DATE('2015-03-02 13:29:59','yyyy-mm-dd hh24:mi:ss'),11,NULL,NULL,20);

```

ing_scheme.sql:

```

1 CREATE TABLE Bank
2 (
3     id NUMBER NOT NULL ,
4     name VARCHAR2 (30 CHAR) NOT NULL
5 );
6 ALTER TABLE Bank ADD CONSTRAINT Bank_PK PRIMARY KEY ( id ) ;
7 ALTER TABLE Bank ADD CONSTRAINT Bank__UN UNIQUE ( name ) ;

```

```

8
9 CREATE TABLE Office
10 (
11     Bank_id          NUMBER NOT NULL ,
12     office_number    NUMBER NOT NULL ,
13     name             VARCHAR2 (60) NOT NULL,
14     address          VARCHAR2 (100) NOT NULL
15 ) ;
16 ALTER TABLE Office ADD CONSTRAINT Office_PK PRIMARY KEY ( Bank_id,
17 office_number ) ;
18 ALTER TABLE Office ADD CONSTRAINT Office__UN UNIQUE ( name ) ;
19 ALTER TABLE Office ADD CONSTRAINT Office_Bank_FK FOREIGN KEY (
20 Bank_id ) REFERENCES Bank ( id ) ;
21
22 CREATE TABLE Account
23 (
24     id                INTEGER NOT NULL,
25     Office_Bank_id    NUMBER NOT NULL,
26     Office_number     NUMBER NOT NULL ,
27     account_number    NUMBER NOT NULL ,
28     balance           NUMBER (10,2) NOT NULL
29 ) ;
30 ALTER TABLE Account ADD CONSTRAINT Account_PK PRIMARY KEY ( id ) ;
31 ALTER TABLE Account ADD CONSTRAINT Account__UN UNIQUE (
32 Office_Bank_id, Office_number , account_number ) ;
33 ALTER TABLE Account ADD CONSTRAINT Account_Office_FK FOREIGN KEY (
34 Office_Bank_id, Office_number ) REFERENCES Office ( Bank_id,
35 office_number ) ;
36
37
38 CREATE TABLE ING_Account
39 (
40     id                INTEGER NOT NULL,
41     type varchar2(25)  DEFAULT 'Orange account' NOT NULL,
42     postal_address    VARCHAR2 (90) NOT NULL ,
43     constraint ck_ing_account_type check (type in ('Orange
44 account', 'home savings account', 'fiscal savings account',
45 'deposit account'))
46 ) ;
47 ALTER TABLE ING_Account ADD CONSTRAINT ING_Account_PK PRIMARY KEY
48 ( id);
49 ALTER TABLE ING_Account ADD CONSTRAINT FK_ASS_2 FOREIGN KEY ( id )
50 REFERENCES Account ( id ) ;
51
52
53 CREATE TABLE Associated_Account
54 ( id INTEGER NOT NULL
55 ) ;
56 ALTER TABLE Associated_Account ADD CONSTRAINT
57 Associated_Account_PK PRIMARY KEY ( id) ;
58 ALTER TABLE Associated_Account ADD CONSTRAINT FK_ASS_1 FOREIGN KEY
59 ( id ) REFERENCES Account ( id ) ;
60
61 CREATE TABLE "INGAc-AsAc"
62 (
63     ING_Account_id    INTEGER NOT NULL,
64     Associated_Account_id INTEGER NOT NULL

```

```

65 ) ;
66 ALTER TABLE "INGAc-AsAc" ADD CONSTRAINT "INGAc-AsAc_PK" PRIMARY
67 KEY ( Associated_Account_id, ING_Account_id ) ;
68 ALTER TABLE "INGAc-AsAc" ADD CONSTRAINT "INGAc-AsAc_FK" FOREIGN
69 KEY ( Associated_Account_id ) REFERENCES Associated_Account ( id )
70 ;
71 ALTER TABLE "INGAc-AsAc" ADD CONSTRAINT "INGAc-AsAc_ING_Ac_FK"
72 FOREIGN KEY ( ING_Account_id ) REFERENCES ING_Account ( id ) ;
73
74 CREATE TABLE Owner
75 (
76     DNI          VARCHAR2 (9 CHAR) NOT NULL ,
77     name         VARCHAR2 (20 CHAR) NOT NULL ,
78     surname1     VARCHAR2 (20) NOT NULL ,
79     surname2     VARCHAR2 (20)
80 ) ;
81 ALTER TABLE Owner ADD CONSTRAINT Owner_PK PRIMARY KEY ( DNI ) ;
82
83 CREATE TABLE Client
84 (
85     DNI          VARCHAR2 (9 CHAR) NOT NULL ,
86     marital_status VARCHAR2 (10) NOT NULL,
87     birthday_date DATE,
88     constraint ck_client_marital_status CHECK ( marital_status in
89 ('married', 'single', 'widow'))
90 ) ;
91 ALTER TABLE Client ADD CONSTRAINT Client_PK PRIMARY KEY ( DNI ) ;
92 ALTER TABLE Client ADD CONSTRAINT FK_ASS_8 FOREIGN KEY ( DNI )
93 REFERENCES Owner ( DNI ) ;
94
95
96 CREATE TABLE OwnerAsAc
97 ( DNI VARCHAR2 (9 CHAR) NOT NULL
98 ) ;
99 ALTER TABLE OwnerAsAc ADD CONSTRAINT OwnerAsAc_PK PRIMARY KEY (
100 DNI ) ;
101 ALTER TABLE OwnerAsAc ADD CONSTRAINT FK_ASS_9 FOREIGN KEY ( DNI )
102 REFERENCES Owner ( DNI ) ;
103
104 CREATE TABLE "OwnerAsAc-AsAc"
105 (
106     id          INTEGER NOT NULL,
107     OwnerAsAc_DNI VARCHAR2 (9 CHAR) NOT NULL ,
108     Associated_Account_id INTEGER NOT NULL
109 ) ;
110 ALTER TABLE "OwnerAsAc-AsAc" ADD CONSTRAINT "OwnerAsAc-AsAc_PK"
111 PRIMARY KEY ( id ) ;
112 ALTER TABLE "OwnerAsAc-AsAc" ADD CONSTRAINT "OwnerAsAc-AsAc__UN"
113 UNIQUE ( Associated_Account_id, OwnerAsAc_DNI ) ;
114 ALTER TABLE "OwnerAsAc-AsAc" ADD CONSTRAINT "OwnerAsAc-
115 AsAc_AsAc_FK" FOREIGN KEY ( Associated_Account_id ) REFERENCES
116 Associated_Account ( id ) ;
117 ALTER TABLE "OwnerAsAc-AsAc" ADD CONSTRAINT "OwnerAsAc-
118 AsAc_OwnerAsAc_FK" FOREIGN KEY ( OwnerAsAc_DNI ) REFERENCES
119 OwnerAsAc ( DNI ) ;
120
121 CREATE TABLE "Cli-Acc"

```


ESTUDIAR QUEMA, PERO FLAMIN' HOT QUEMA MÁS

Wuolah: PedroChota

```
122 (
123     id                INTEGER NOT NULL,
124     Client_DNI        VARCHAR2 (9 CHAR) NOT NULL ,
125     ING_Account_id    INTEGER NOT NULL
126 ) ;
127 ALTER TABLE "Cli-Acc" ADD CONSTRAINT "Cli-Acc_PK" PRIMARY KEY ( id
128 ) ;
129 ALTER TABLE "Cli-Acc" ADD CONSTRAINT "Cli-Acc__UN" UNIQUE (
130 ING_Account_id , Client_DNI ) ;
131 ALTER TABLE "Cli-Acc" ADD CONSTRAINT "Cli-Acc_Client_FK" FOREIGN
132 KEY ( Client_DNI ) REFERENCES Client ( DNI ) ;
133 ALTER TABLE "Cli-Acc" ADD CONSTRAINT "Cli-Acc_ING_Account_FK"
134 FOREIGN KEY ( ING_Account_id) REFERENCES ING_Account ( id ) ;
135
136 CREATE TABLE Service
137 (
138     id    NUMBER NOT NULL ,
139     name VARCHAR2 (80 CHAR) NOT NULL,
140     CONSTRAINT ck_service_name CHECK (name in ('ING SEGUROS', 'ING
141 FONDOS', 'ING BROKER', 'ING HIPOTECA'))
142 ) ;
143
144 ALTER TABLE Service ADD CONSTRAINT Service_PK PRIMARY KEY ( id ) ;
145 ALTER TABLE Service ADD CONSTRAINT Service__UN UNIQUE ( name ) ;
146
147 CREATE TABLE "Client-Service"
148 (
149     Client_DNI VARCHAR2 (9 CHAR) NOT NULL ,
150     Service_id NUMBER NOT NULL
151 ) ;
152 ALTER TABLE "Client-Service" ADD CONSTRAINT "Client-Service__IDX"
153 PRIMARY KEY ( Client_DNI, Service_id ) ;
154 ALTER TABLE "Client-Service" ADD CONSTRAINT FK_ASS_10 FOREIGN KEY
155 ( Client_DNI ) REFERENCES Client ( DNI ) ;
156 ALTER TABLE "Client-Service" ADD CONSTRAINT FK_ASS_11 FOREIGN KEY
157 ( Service_id ) REFERENCES Service ( id ) ;
158
159 CREATE TABLE Fund
160 (
161     id    SMALLINT NOT NULL ,
162     name VARCHAR2 (120 CHAR) NOT NULL,
163     constraint ck_fund_name check (name in ('Renta Variable Global
164 FIMF', 'Mixto Europeo', 'IBEX 35'))
165 ) ;
166 ALTER TABLE Fund ADD CONSTRAINT Fund_PK PRIMARY KEY ( id ) ;
167
168 CREATE TABLE Operation
169 (
170     cod_op          NUMBER (9) NOT NULL ,
171     "date"          DATE NOT NULL ,
172     "Cli-Acc_id"    INTEGER NOT NULL
173 ) ;
174 ALTER TABLE Operation ADD CONSTRAINT Operation_PK PRIMARY KEY (
175 cod_op ) ;
176 ALTER TABLE Operation ADD CONSTRAINT "Operation_Cli-Acc_FK"
177 FOREIGN KEY ( "Cli-Acc_id" ) REFERENCES "Cli-Acc" ( id ) ;
178
```

WUOLAH

```

179 CREATE TABLE OP_D
180 (
181     cod_op                NUMBER (9) NOT NULL ,
182     amount                NUMBER (9,2) NOT NULL ,
183     periodicity           VARCHAR2 (40) NOT NULL ,
184     "OwnerAsAc-AsAc_id"  INTEGER NOT NULL,
185     CONSTRAINT ck_opd_periodicity CHECK (periodicity in
186 ('once','bimonthly','monthly','annual'))
187 ) ;
188 ALTER TABLE OP_D ADD CONSTRAINT OP_D_PK PRIMARY KEY ( cod_op ) ;
189 ALTER TABLE OP_D ADD CONSTRAINT FK_ASS_3 FOREIGN KEY ( cod_op )
190 REFERENCES Operation ( cod_op ) ;
191 ALTER TABLE OP_D ADD CONSTRAINT "OP_D_OwnerAsAc-AsAc_FK" FOREIGN
192 KEY ( "OwnerAsAc-AsAc_id" ) REFERENCES "OwnerAsAc-AsAc" ( id ) ;
193
194 CREATE TABLE OP_I
195 (
196     cod_op                NUMBER (9) NOT NULL,
197     Office_id_bank        NUMBER NOT NULL,
198     Office_number         NUMBER NOT NULL ,
199     check_number          NUMBER(9) NOT NULL,
200     amount                NUMBER (9,2)
201 ) ;
202 ALTER TABLE OP_I ADD CONSTRAINT OP_I_PK PRIMARY KEY ( cod_op ) ;
203 ALTER TABLE OP_I ADD CONSTRAINT OP_I_Office_FK FOREIGN KEY (
204 Office_id_bank, Office_number ) REFERENCES Office ( Bank_id,
205 office_number ) ;
206 ALTER TABLE OP_I ADD CONSTRAINT OP_I_UN UNIQUE(Office_id_bank,
207 Office_number, check_number);
208 ALTER TABLE OP_I ADD CONSTRAINT FK_ASS_5 FOREIGN KEY ( cod_op )
209 REFERENCES Operation ( cod_op ) ;
210
211 CREATE TABLE OP_MCA
212 (
213     cod_op                NUMBER (9) NOT NULL ,
214     join                  CHAR (1) ,
215     "OwnerAsAc-AsAc_id"  INTEGER NOT NULL,
216     CONSTRAINT ck_op_mca_join check (join in ('T','F'))
217 ) ;
218 ALTER TABLE OP_MCA ADD CONSTRAINT OP_MCA_PK PRIMARY KEY ( cod_op )
219 ;
220 ALTER TABLE OP_MCA ADD CONSTRAINT "OP_MCA_OwnerAsAcAsAc_FK"
221 FOREIGN KEY ( "OwnerAsAc-AsAc_id" ) REFERENCES "OwnerAsAc-AsAc" (
222 id ) ;
223 ALTER TABLE OP_MCA ADD CONSTRAINT FK_ASS_4 FOREIGN KEY ( cod_op )
224 REFERENCES Operation ( cod_op ) ;
225
226 CREATE TABLE OP_OI
227 (
228     cod_op                NUMBER (9) NOT NULL ,
229     amount                NUMBER (9,2) NOT NULL ,
230     periodicity           VARCHAR2 (40) ,
231     "OwnerAsAc-AsAc_id"  INTEGER NOT NULL
232 ) ;
233 ALTER TABLE OP_OI ADD CONSTRAINT OP_OI_PK PRIMARY KEY ( cod_op ) ;
234 ALTER TABLE OP_OI ADD CONSTRAINT "OP_OI_OwnerAsAcAsAc_FK" FOREIGN
235 KEY ( "OwnerAsAc-AsAc_id" ) REFERENCES "OwnerAsAc-AsAc" ( id ) ;

```

```

236 ALTER TABLE OP_OI ADD CONSTRAINT FK_ASS_6 FOREIGN KEY ( cod_op )
237 REFERENCES Operation ( cod_op ) ;
238
239 CREATE TABLE OP_OSRFI
240 (
241     cod_op          NUMBER (9) NOT NULL ,
242     contract_number NUMBER (10) NOT NULL ,
243     amount          NUMBER (10,2) NOT NULL ,
244     operation       VARCHAR2 (20 CHAR) ,
245     Fund_id         SMALLINT NOT NULL,
246     CONSTRAINT ck_oposrfi_oper CHECK (operation in
247 ('subscription','refund'))
248 ) ;
249 ALTER TABLE OP_OSRFI ADD CONSTRAINT OP_OSRFI_PK PRIMARY KEY (
250 cod_op ) ;
251 ALTER TABLE OP_OSRFI ADD CONSTRAINT OP_OSRFI__UN UNIQUE (
252 contract_number ) ;
253 ALTER TABLE OP_OSRFI ADD CONSTRAINT OP_OSRFI_Fund_FK FOREIGN KEY (
254 Fund_id ) REFERENCES Fund ( id ) ;
255 ALTER TABLE OP_OSRFI ADD CONSTRAINT FK_ASS_7 FOREIGN KEY ( cod_op
256 ) REFERENCES Operation ( cod_op ) ;
257
258
259 CREATE TABLE Internet
260 (
261     id          NUMBER NOT NULL ,
262     IP          CHAR (15) NOT NULL ,
263     connexion_begin DATE ,
264     connexion_end   DATE ,
265     OP_MCA_cod_op  NUMBER (9) ,
266     OP_D_cod_op    NUMBER (9) ,
267     OP_OI_cod_op   NUMBER (9) ,
268     OP_OSRFI_cod_op NUMBER (9)
269 ) ;
270 ALTER TABLE Internet ADD CONSTRAINT Internet_PK PRIMARY KEY ( id )
    ;
    ALTER TABLE Internet ADD CONSTRAINT Internet_OP_D_FK FOREIGN KEY (
    OP_D_cod_op ) REFERENCES OP_D ( cod_op ) ;
    ALTER TABLE Internet ADD CONSTRAINT Internet_OP_MCA_FK FOREIGN KEY
    ( OP_MCA_cod_op ) REFERENCES OP_MCA ( cod_op ) ;
    ALTER TABLE Internet ADD CONSTRAINT Internet_OP_OI_FK FOREIGN KEY
    ( OP_OI_cod_op ) REFERENCES OP_OI ( cod_op ) ;
    ALTER TABLE Internet ADD CONSTRAINT Internet_OP_OSRFI_FK FOREIGN
    KEY ( OP_OSRFI_cod_op ) REFERENCES OP_OSRFI ( cod_op ) ;
    CREATE UNIQUE INDEX Internet__IDX ON Internet
    (
        OP_OI_cod_op ASC
    )
    ;
    CREATE UNIQUE INDEX Internet__IDXv1 ON Internet
    (
        OP_D_cod_op ASC
    )
    ;
    CREATE UNIQUE INDEX Internet__IDXv2 ON Internet
    (
        OP_MCA_cod_op ASC

```



```

)
;
CREATE UNIQUE INDEX Internet__IDXv3 ON Internet
(
    OP_OSRFI_cod_op ASC
)
;

CREATE TABLE Telephone
(
    id                NUMBER NOT NULL ,
    telephone_number  NUMBER NOT NULL ,
    "date"            DATE NOT NULL ,
    operator          NUMBER NOT NULL ,
    OP_MCA_cod_op     NUMBER (9) ,
    OP_D_cod_op       NUMBER (9) ,
    OP_OSRFI_cod_op   NUMBER (9)
) ;
CREATE UNIQUE INDEX Telephone__IDX ON Telephone
(
    OP_D_cod_op ASC
)
;
CREATE UNIQUE INDEX Telephone__IDXv1 ON Telephone
(
    OP_MCA_cod_op ASC
)
;
CREATE UNIQUE INDEX Telephone__IDXv2 ON Telephone
(
    OP_OSRFI_cod_op ASC
)
;
ALTER TABLE Telephone ADD CONSTRAINT Telephone_PK PRIMARY KEY ( id
) ;
ALTER TABLE Telephone ADD CONSTRAINT Telephone_OP_D_FK FOREIGN KEY
( OP_D_cod_op ) REFERENCES OP_D ( cod_op ) ;
ALTER TABLE Telephone ADD CONSTRAINT Telephone_OP_MCA_FK FOREIGN
KEY ( OP_MCA_cod_op ) REFERENCES OP_MCA ( cod_op ) ;
ALTER TABLE Telephone ADD CONSTRAINT Telephone_OP_OSRFI_FK FOREIGN
KEY ( OP_OSRFI_cod_op ) REFERENCES OP_OSRFI ( cod_op ) ;

```

Se ejecuta , se hace captura y se manda