

GeneraciónBDCasoPractico0708.sql

DROP TABLE Empresa CASCADE CONSTRAINTS;

```
CREATE TABLE Empresa (
    CIF                VARCHAR2(30) NOT NULL,
    Nombre             VARCHAR2(30) NOT NULL,
    Calle              VARCHAR2(30) NOT NULL,
    Numero             VARCHAR2(30) NOT NULL,
    Poblacion          VARCHAR2(30) NOT NULL,
    CONSTRAINT XPKEmpresa
        PRIMARY KEY (CIF)
);
```

```
CREATE UNIQUE INDEX XAK1Empresa ON Empresa
(
    Nombre                ASC
);
```

```
CREATE UNIQUE INDEX XAK2Empresa ON Empresa
(
    Calle                ASC,
    Numero                ASC,
    Poblacion            ASC
);
```

DROP TABLE Asignatura CASCADE CONSTRAINTS;

```
CREATE TABLE Asignatura (
    Cod_Asignatura     VARCHAR2(30) NOT NULL,
    Titulación         VARCHAR2(30) NOT NULL,
    Nombre_Asig        VARCHAR2(30) NOT NULL,
    Curso              INTEGER NOT NULL
        CONSTRAINT RD_Curso7
        CHECK (Curso IN (1, 2, 3, 4, 5, 6)),
    CIF                 VARCHAR2(30) NOT NULL,
    Precio_fotocopia   NUMBER(3, 2) NOT NULL
        CONSTRAINT preci o_copi a_mayor_07
        CHECK (Precio_fotocopi a > 0),
    CONSTRAINT XPKAsignatura
        PRIMARY KEY (Cod_Asignatura),
    CONSTRAINT hace_copias
        FOREIGN KEY (CIF)
        REFERENCES Empresa
);
```

```
CREATE UNIQUE INDEX XAK1Asignatura ON Asignatura
(
    Titulación            ASC,
    Nombre_Asig          ASC
);
```

DROP TABLE Alumno CASCADE CONSTRAINTS;

```
CREATE TABLE Alumno (
    NIA                VARCHAR2(30) NOT NULL,
    NIF_Pas            VARCHAR2(30) NOT NULL,
    Nombre             VARCHAR2(30) NOT NULL,
    Apellidos          VARCHAR2(30) NOT NULL,
    Calle              VARCHAR2(30) NOT NULL,
    Numero             VARCHAR2(30) NOT NULL,
    Poblacion          VARCHAR2(30) NOT NULL,
    Provincia          VARCHAR2(30) NOT NULL,
    email_al           VARCHAR2(30) NOT NULL,
    CONSTRAINT XPKAlumno
        PRIMARY KEY (NIA)
);
```

GeneracionBDCasoPractico0708.sql

```
CREATE UNIQUE INDEX XAK1Alumno ON Alumno
(
    NIF_Pas          ASC
);
```

DROP TABLE Matriculado CASCADE CONSTRAINTS;

```
CREATE TABLE Matriculado (
    NIA              VARCHAR2(30) NOT NULL,
    Cod_Asignatura   VARCHAR2(30) NOT NULL,
    CONSTRAINT XPKMatriculado
        PRIMARY KEY (NIA, Cod_Asignatura),
    CONSTRAINT tiene_matriculos
        FOREIGN KEY (Cod_Asignatura)
            REFERENCES Asignatura
            ON DELETE CASCADE,
    CONSTRAINT tiene_matricula
        FOREIGN KEY (NIA)
            REFERENCES Alumno
            ON DELETE CASCADE
);
```

DROP TABLE Material_Asignatura CASCADE CONSTRAINTS;

```
CREATE TABLE Material_Asignatura (
    Tema             VARCHAR2(30) NOT NULL,
    Tipo_Material    VARCHAR2(20) NOT NULL
        CONSTRAINT RD_Tipo_Material_25
            CHECK (Tipo_Material IN ('apuntes',
' ejercicios' )),
    Loc_contenido    VARCHAR2(30) NULL,
    Num_Paginas      INTEGER NOT NULL
        CONSTRAINT Num_pags_mayor_07
            CHECK (Num_Paginas > 0),
    N_Ejercicios     INTEGER NOT NULL
        CONSTRAINT N_Ejercicios_mayor_07
            CHECK (N_Ejercicios > 0),
    Cod_Asignatura   VARCHAR2(30) NOT NULL,
    CONSTRAINT XPKMaterial_Asignatura
        PRIMARY KEY (Tema, Tipo_Material, Cod_Asignatura),
    CONSTRAINT tiene_material
        FOREIGN KEY (Cod_Asignatura)
            REFERENCES Asignatura
            ON DELETE CASCADE
);
```

DROP TABLE Pedido_Material CASCADE CONSTRAINTS;

```
CREATE TABLE Pedido_Material (
    N_Copias         INTEGER NOT NULL
        CONSTRAINT N_Copias_mayor_013
            CHECK (N_Copias > 0),
    Forma_Aviso     VARCHAR2(20) NOT NULL
        CONSTRAINT RD_Forma_Aviso13
            CHECK (Forma_Aviso IN ('email',
' telefono' )),
    email           VARCHAR2(20) NULL,
    Telefono        VARCHAR2(20) NULL,
    Tema            VARCHAR2(30) NOT NULL,
    Tipo_Material    VARCHAR2(20) NOT NULL
        CONSTRAINT RD_Tipo_Material_26
            CHECK (Tipo_Material IN ('apuntes',
' ejercicios' )),
    Cod_Asignatura   VARCHAR2(30) NOT NULL,
    Pagina 2
);
```

GeneraciónBDCasoPractico0708.sql

```

NIA                VARCHAR2(30) NOT NULL,
Fecha              DATE NOT NULL,
CONSTRAINT XPKPedi do_Material
    PRIMARY KEY (Tema, Tipo_Material, Cod_Asignatura, NIA,
Fecha),
CONSTRAINT al umno_pi de_material
    FOREIGN KEY (NIA)
        REFERENCES Al umno,
CONSTRAINT material_pedi do
    FOREIGN KEY (Tema, Tipo_Material, Cod_Asignatura)
        REFERENCES Material_Asignatura
);

```

DROP TABLE Examen_Asignatura CASCADE CONSTRAINTS;

```

CREATE TABLE Examen_Asignatura (
Convocatoria      VARCHAR2(30) NOT NULL,
Curso             VARCHAR2(30) NOT NULL,
Loc_Contenido    VARCHAR2(30) NOT NULL,
Num_Paginas      INTEGER NOT NULL,
Cod_Asignatura    VARCHAR2(30) NOT NULL,
CONSTRAINT XPKExamen_Asignatura
    PRIMARY KEY (Convocatoria, Curso, Cod_Asignatura),
CONSTRAINT tiene_examen
    FOREIGN KEY (Cod_Asignatura)
        REFERENCES Asignatura
        ON DELETE CASCADE
);

```

DROP TABLE Pedito_Examen CASCADE CONSTRAINTS;

```

CREATE TABLE Pedito_Examen (
N_Copias          INTEGER NOT NULL
                  CONSTRAINT N_Copias_mayor_014
                      CHECK (N_Copias > 0),
Forma_Aviso      VARCHAR2(20) NOT NULL
                  CONSTRAINT RD_Forma_Aviso14
                      CHECK (Forma_Aviso IN ('email',
'teléfono')),
email            VARCHAR2(30) NULL,
Telefono        VARCHAR2(30) NULL,
Convocatoria    VARCHAR2(30) NOT NULL,
Curso           VARCHAR2(30) NOT NULL,
Cod_Asignatura  VARCHAR2(30) NOT NULL,
NIA             VARCHAR2(30) NOT NULL,
Fecha           DATE NOT NULL,
CONSTRAINT XPKPedito_Examen
    PRIMARY KEY (Convocatoria, Curso, Cod_Asignatura, NIA,
Fecha),
CONSTRAINT al umno_pi de_examen
    FOREIGN KEY (NIA)
        REFERENCES Al umno,
CONSTRAINT examen_pedito
    FOREIGN KEY (Convocatoria, Curso, Cod_Asignatura)
        REFERENCES Examen_Asignatura
);

```

DROP TABLE Telefono CASCADE CONSTRAINTS;

```

CREATE TABLE Telefono (
Num_Ti f         VARCHAR2(30) NOT NULL,
Dscri pci on    VARCHAR2(20) NOT NULL
                  CONSTRAINT RD_Desc_Ti f7
                      CHECK (Dscri pci on IN ('fijo',
'movil')),

```

GeneracionBDCasoPractico0708.sql

```
CONSTRAINT XPKTelefono
    PRIMARY KEY (Num_Ti f)
```

);

DROP TABLE Telefonos CASCADE CONSTRAINTS;

```
CREATE TABLE Telefonos (
    NIA                VARCHAR2(30) NOT NULL,
    Num_Ti f          VARCHAR2(30) NOT NULL,
    CONSTRAINT XPKTelefonos
        PRIMARY KEY (NIA, Num_Ti f),
    CONSTRAINT proporcionado_por
        FOREIGN KEY (Num_Ti f)
            REFERENCES Telefono
            ON DELETE CASCADE,
    CONSTRAINT proporciona
        FOREIGN KEY (NIA)
            REFERENCES Alumno
            ON DELETE CASCADE
);
```

DROP TABLE Factura CASCADE CONSTRAINTS;

```
CREATE TABLE Factura (
    N_Factura          VARCHAR2(30) NOT NULL,
    Fecha              VARCHAR2(30) NOT NULL,
    Total              VARCHAR2(30) NOT NULL
                        CONSTRAINT Total_mayor_07
                        CHECK (Total > 0),
    CIF                VARCHAR2(30) NOT NULL,
    CONSTRAINT XPKFactura
        PRIMARY KEY (N_Factura, CIF),
    CONSTRAINT abona
        FOREIGN KEY (CIF)
            REFERENCES Empresa
);
```

DROP TABLE Ejercicio_Asignatura CASCADE CONSTRAINTS;

```
CREATE TABLE Ejercicio_Asignatura (
    Num_Ejer           INTEGER NOT NULL,
    N_Soluciones       INTEGER NOT NULL
                        CONSTRAINT N_Soluciones_mayor_igual_07
                        CHECK (N_Soluciones >= 0),
    Tema              VARCHAR2(30) NOT NULL,
    Tipo_Material     VARCHAR2(20) NOT NULL
                        CONSTRAINT RD_Tipo_Material_27
                        CHECK (Tipo_Material IN ('apuntes',
'ejercicios')),
    Cod_Asignatura    VARCHAR2(30) NOT NULL,
    Loc_Ejercicio     VARCHAR2(20) NOT NULL,
    CONSTRAINT XPKEjercicio_Asignatura
        PRIMARY KEY (Num_Ejer, Tema, Tipo_Material,
                    Cod_Asignatura),
    CONSTRAINT es_un
        FOREIGN KEY (Tema, Tipo_Material, Cod_Asignatura)
            REFERENCES Material_Asignatura
            ON DELETE CASCADE
);
```

DROP TABLE Solucion_Ejercicio CASCADE CONSTRAINTS;

```
CREATE TABLE Solucion_Ejercicio (
    N_Sol              INTEGER NOT NULL,
```

```

Generaci onBDCasoPracti co0708. sql
Loc_Sol uci on      VARCHAR2(30) NOT NULL,
N_Pagi nas         INTEGER NOT NULL
                   CONSTRAINT N_Pag_Sol uci on_mayor_07
                   CHECK (N_Pagi nas > 0),
Num_Ej er          INTEGER NOT NULL,
Tema               VARCHAR2(30) NOT NULL,
Ti po_Materi al    VARCHAR2(20) NOT NULL
                   CONSTRAINT RD_Ti po_Materi al_28
                   CHECK (Ti po_Materi al IN ('apuntes',
'ejerci ci os')),
Cod_Asi gnatura    VARCHAR2(30) NOT NULL,
CONSTRAINT XPKSol uci on_Ejerci ci o
PRIMARY KEY (N_Sol , Num_Ej er, Tema, Ti po_Materi al ,
Cod_Asi gnatura),
CONSTRAINT tiene_sol uci on
FOREIGN KEY (Num_Ej er, Tema, Ti po_Materi al ,
Cod_Asi gnatura)
REFERENCES Ejerci ci o_Asi gnatura
ON DELETE CASCADE
);

```