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-- script : schema.sql

-- database: gestion\_Chantier\_metier.sql

-- contributors : Florian DEVENES

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-- history : when | ver | who | what

-- 2023-10-05 | 1.0 | mon | creation

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USE master;

-- Cherche une BD appellée LocationBarqueLaVaudoise et la supprime le cas échéant

IF EXISTS(SELECT \* FROM sys.databases WHERE NAME= 'gestion\_chantier\_metier')

DROP DATABASE gestion\_chantier\_metier;

GO

-- Crée la BD et l'utilise

CREATE DATABASE gestion\_chantier\_metier;

GO

USE gestion\_chantier\_metier;

GO

CREATE Database gestion\_chantier\_metier

--Création des Tables :

CREATE TABLE Ville (Nom VARCHAR(50) Not Null, Canton VARCHAR(50) not null);

CREATE TABLE Chantier (No INTEGER Not Null, VilleNom VARCHAR(50) Not Null,

VilleCanton VARCHAR(50) Not Null, ResponsableNo INTEGER Not Null,

ResidenceNom VARCHAR(50) not Null, Batiment VARCHAR(50) Not Null,

Objet VARCHAR(50) Not Null );

CREATE TABLE Contrat (No Integer Not Null, ChantierNo Integer Not Null,

Signataire VARCHAR(50) Not Null, OpérationNom VARCHAR(50) Not Null,

EntrepriseNom VARCHAR(50) Not Null, DateContrat DATE Not Null,

DateDebutTravaux DATE Not Null, DateFinTravaux DATE,

MontantEstime REAL Not Null);

CREATE TABLE Employe ( No Integer not null, Nom VARCHAR(50) not null,

Prenom VARCHAR(50) not null, DateDe DATE Not Null,

DateA DATE);

CREATE TABLE Facture (No Integer not null, ContratNo Integer Not Null,

EntrepriseNom VARCHAR(50) Not Null, DateFacturation DATE Not Null,

MontantFacture REAL Not Null, Statut VARCHAR(50) Not Null);

CREATE TABLE Operation ( Nom VARCHAR(50) Not Null, Description VARCHAR(200) Not Null); --- à verif

CREATE TABLE Specialite ( OperationNom VARCHAR(50) Not Null, EntrepriseNom VARCHAR(50) Not Null);

CREATE TABLE Entreprise ( Nom VARCHAR(50) Not Null, Adresse VARCHAR(200) Not Null,

NPA NUMERIC Not Null, Localite VARCHAR(50) Not Null,

Telephone VARCHAR(50) Not Null);

--Création des clé primaires :

Alter Table Ville

ADD CONSTRAINT Ville\_PK PRIMARY Key (Nom,Canton);

ALTER TABLE Chantier

ADD CONSTRAINT Chantier\_PK PRIMARY KEY (No);

ALTER TABLE Contrat

ADD CONSTRAINT Contrat\_PK PRIMARY KEY (No);

ALTER TABLE Employe

ADD CONSTRAINT Employe\_PK PRIMARY KEY (No);

ALTER TABLE Facture

ADD CONSTRAINT Facture\_PK PRIMARY KEY (No);

ALTER TABLE Operation

ADD CONSTRAINT Operation\_PK PRIMARY KEY (Nom);

ALTER TABLE Entreprise

ADD CONSTRAINT Entreprise\_PK PRIMARY KEY (Nom);

ALTER TABLE Specialite

ADD CONSTRAINT Specialite\_PK PRIMARY KEY (OperationNom, EntrepriseNom);

-- création des clé étrangères:

Alter Table Chantier

ADD CONSTRAINT Chantier\_FK1 FOREIGN KEY (VilleNom,VilleCanton) REFERENCES Ville,

CONSTRAINT Chantier\_FK2 FOREIGN KEY (ResponsableNo) REFERENCES Employe,

CONSTRAINT Chantier\_FK3 FOREIGN KEY (Signataire) REFERENCES Contrat;

Alter Table Contrat

ADD CONSTRAINT Contrat\_FK1 FOREIGN KEY (ChantierNo) REFERENCES Chantier,

CONSTRAINT Contrat\_FK2 FOREIGN KEY (Signataire) REFERENCES Employe,

CONSTRAINT Contrat\_FK3 FOREIGN KEY (OpérationNom) REFERENCES Specialite,

CONSTRAINT Contrat\_FK4 FOREIGN KEY (OpérationNom) REFERENCES Operation,

CONSTRAINT Contrat\_FK5 FOREIGN KEY (EntrepriseNon) REFERENCES Entreprise,

CONSTRAINT Contrat\_FK5 FOREIGN KEY (EntrepriseNon) REFERENCES OperationNom;

Alter Table Facture

ADD CONSTRAINT Facture\_FK1 FOREIGN KEY (ContratNo) REFERENCES Contrat,

CONSTRAINT Facture\_FK2 FOREIGN KEY (EntrepriseNom) REFERENCES Specialite,

CONSTRAINT Facture\_FK3 FOREIGN KEY (EntrepriseNom) REFERENCES Entreprise,

CONSTRAINT Facture\_FK4 FOREIGN KEY (EntrepriseNom) REFERENCES Contrat;

Alter Table Specialite

ADD CONSTRAINT Specialite\_FK1 FOREIGN KEY (OperationNom) REFERENCES Operation,

ADD CONSTRAINT Specialite\_FK2 FOREIGN KEY (OperationNom) REFERENCES Contrat,

ADD CONSTRAINT Specialite\_FK3 FOREIGN KEY (EntrepriseNom) REFERENCES Entreprise,

ADD CONSTRAINT Specialite\_FK4 FOREIGN KEY (EntrepriseNom) REFERENCES Contrat ,