SQL :

CREATE DATABASE voiture ; 1

CREATE TABLE personne(

id\_personne int NOT NULL PRIMARY KEY,

nom varchar(50)NOT NULL,

prenom varchar(50)NOT NULL,

n\_rue int NOT NULL,

rue varchar(255)NOT NULL,

cp int NOT NULL ,

CONSTRAINT ck\_cp CHECK (cp<96000),

ville varchar (50)NOT NULL

)

CREATE TABLE vehicule (

immatriculation varchar(10)NOT NULL PRIMARY KEY,

marque varchar(50)NOT NULL,

kilometrage int NOT NULL,

date\_mise\_service datetime NOT NULL,

id\_personne int NOT NULL,

CONSTRAINT fk\_id\_personne FOREIGN KEY (id\_personne) REFERENCES personne (id\_personne)

)

CREATE DATABASE ecole;2

CREATE TABLE etudiant (

id\_etudiant int NOT NULL PRIMARY KEY,

nom varchar(50) NOT NULL,

prenom varchar(50) NOT NULL,

date\_entree date NOT NULL

)

CREATE TABLE matiere (

id\_matiere INT NOT NULL PRIMARY KEY,

lib\_matiere VARCHAR(150) NOT NULL UNIQUE,

coefficient tinyint NOT NULL

)

CREATE TABLE controle (

id\_etudiant INT NOT NULL,

id\_matiere INT NOT NULL,

note TINYINT NULL,

CONSTRAINT PRIMARY KEY(id\_etudiant, id\_matiere),

CONSTRAINT fk\_id\_etudiant FOREIGN KEY(id\_etudiant) REFERENCES etudiants(id\_etudiant),

CONSTRAINT fk\_id\_matiere FOREIGN KEY(id\_matiere) REFERENCES matieres(id\_matiere)

)

CREATE DATABASE ecole ;3

CREATE TABLE etudiant (

Id\_etudiant int NOT NULL PRIMARY KEY ,

nom varchar(50) NOT NULL,

prenom varchar(50) NOT NULL,

date\_entree date NOT NULL

)

CREATE TABLE matiere (

Id\_matiere int NOT NULL PRIMARY KEY ,

Lib\_matiere varchar(255) NOT NULL,

coefficient tinyint NOT NULL

CONSTRAINT ck\_coef CHECK (coefficient<10),

)

CREATE TABLE controle (

Id\_etudiant int NOT NULL,

Id\_matiere int NOT NULL,

date\_controle date NOT NULL,

note tinyint NOT NULL,

CONSTRAINT ck\_note CHECK (note<=20),

CONSTRAINT pk\_controle PRIMARY KEY (id\_etudiant, id\_matiere, date\_controle ),

CONSTRAINT fk\_id\_etudiant FOREIGN KEY (id\_etudiant) REFERENCES etudiant (id\_etudiant),

CONSTRAINT fk\_id\_matiere FOREIGN KEY (id\_matiere) REFERENCES matiere (id\_matiere)

)

CREATE DATABASE bibliotheque ;4

CREATE TABLE livre(

isbn varchar (50) NOT NULL PRIMARY KEY,

titre varchar (50) NOT NULL

)

CREATE TABLE exemplaire(

num\_exempl int NOT NULL,

isbn varchar (50) NOT NULL,

etat char(1) NOT NULL DEFAULT « D »,

CONSTRAINT ck\_etat CHECK (etat in (‘D’, ‘E’,’P’)),

CONSTRAINT pk\_exempl PRIMARY KEY (num\_exempl, isbn),

CONSTRAINT fk\_isbn FOREIGN KEY (isbn) REFERENCES livre (isbn)

)

CREATE DATABASE boutique ;5

CREATE TABLE rayon (

nomR varchar(50) NOT NULL PRIMARY KEY

)

CREATE TABLE magasin (

codeM int NOT NULL PRIMARY KEY,

nomM varchar(100)

)

CREATE TABLE article (

codeA int NOT NULL PRIMARY KEY,

nomA varchar(100) NOT NULL,

type char(1) NOT NULL,

CONSTRAINT ck\_type CHECK (type IN(‘P’,’L’,’D’)),

)

CREATE TABLE vente(

codeA int NOT NULL,

codeM int NOT NULL,

nomR varchar(50) NOT NULL,

datecommande date NOT NULL,

quantité int NOT NULL,

CONSTRAINT fk\_codeA FOREIGN KEY (codeA) REFERENCES article (codeA),

CONSTRAINT fk\_codeM FOREIGN KEY (codeM) REFERENCES magasin (codeM),

CONSTRAINT fk\_nomR FOREIGN KEY (nomR) REFERENCES rayon (nomR) ,

CONSTRAINT pk\_vente PRIMARY KEY (nomR,codeA,CodeM)

)

CREATE DATABASE magasin ; 6

CREATE TABLE fournisseur (

codeF int PRIMARY KEY,

adresse varchar(255) ,

nomF varchar(50)

) ;

CREATE TABLE article(

codeA int PRIMARY KEY,

nomA varchar(50),

type varchar(50) ,

INDEX (type)

) ;

CREATE TABLE rayon(

nomR varchar (50) PRIMARY KEY,

etage tinyint

) ;

CREATE TABLE employe(

codeE int PRIMARY KEY,

nom varchar (50),

salaire int ,

nomR varchar (50),

codeE\_chef int,

CONSTRAINT fk\_nomR FOREIGN KEY (nomR) REFERENCES rayon (nomR),

CONSTRAINT fk\_codeE\_chef FOREIGN KEY (codeE\_chef) REFERENCES employe (codeE),

INDEX (nom)

) ;

CREATE TABLE livraison(

codeF int,

codeA int,

quantité int,

CONSTRAINT pk\_livraison PRIMARY KEY (codeF, codeA) ,

CONSTRAINT fk\_codeA FOREIGN KEY (codeA) REFERENCES article (codeA),

CONSTRAINT fk\_codeF FOREIGN KEY (codeF) REFERENCES fournisseur (codeF)

) ;

CREATE DATABASE alcool ;7

USE alcool ;

CREATE TABLE buveur(

num\_buv int NOT NULL PRIMARY KEY,

nom\_buv varchar(50) NOT NULL,

prenom\_buv varchar(50) NOT NULL,

ville\_buv varchar(50) NOT NULL,

INDEX (nom\_buv,prenom\_buv)

) ;

CREATE TABLE commande (

num\_com int NOT NULL PRIMARY KEY,

date\_com date NOT NULL,

num\_buv int NOT NULL ,

CONSTRAINT fk\_num\_buv FOREIGN KEY (num\_buv) REFERENCES buveur (num\_buv)

);

CREATE TABLE vigneron (

num\_vig int NOT NULL PRIMARY KEY,

nom\_vig varchar(50) NOT NULL,

prenom\_vig varchar(50) NOT NULL,

ville\_vig varchar (50) NOT NULL ,

CONSTRAINT UNIQUE (nom\_vig,prenom\_vig)

);

CREATE TABLE vin(

num\_vin int NOT NULL PRIMARY KEY,

cru varchar(50) NOT NULL ,

millesime int NOT NULL,

num\_vig int NOT NULL,

CONSTRAINT fk\_num\_vig FOREIGN KEY (num\_vig) REFERENCES vigneron (num\_vig)

) ;

CREATE TABLE acheter(

num\_vin int NOT NULL,

num\_com int NOT NULL,

quantite int NOT NULL,

CONSTRAINT pk\_acheter PRIMARY KEY (num\_vin,num\_com) ,

CONSTRAINT fk\_num\_vin FOREIGN KEY (num\_vin) REFERENCES vin(num\_vin),

CONSTRAINT fk\_num\_com FOREIGN KEY (num\_com) REFERENCES commande (num\_com)

) ;

CREATE TABLE appreciation(

num\_vig\_appreciant INT NOT NULL,

num\_vig\_apprecie INT NOT NULL,

note INT NOT NULL,

CONSTRAINT fk\_num\_vig\_appreciant FOREIGN KEY(num\_vig\_appreciant) REFERENCES vigneron(num\_vig),

CONSTRAINT fk\_num\_vug\_apprecie FOREIGN KEY(num\_vig\_apprecie) REFERENCES vigneron(num\_vig),

CONSTRAINT pk\_num\_vig\_app PRIMARY KEY(num\_vig\_appreciant,num\_vig\_apprecie)

);