

Bases de données relationnelles 2011 (BDD'11)

Quiz 2

le 4 Avril 2012

Prénom & Nom : _____

Exercice 1 (10 pts). Concevoir un diagramme E/A correspondant au schéma relationnel suivant :

```
CREATE TABLE THE (
  ID INT PRIMARY KEY,
  NOM TEXT,
  CAFEINE REAL,
  ID_PLANTATION INT,

  FOREIGN KEY (ID_PLANTATION)
    REFERENCES PLANTATION(ID)
);
```

```
CREATE TABLE PLANTATION (
  ID INT PRIMARY KEY,
  NOM TEXT,
  OUVRIERS INT,

  ID_PAYS INT,

  FOREIGN KEY (ID_PAYS)
    REFERENCES PAYS(ID)
);
```

```
CREATE TABLE PAYS (
  ID INT PRIMARY KEY,
  NOM TEXT,
  TAUX_EMPOTS REAL
);
```

```
CREATE TABLE MELANGE (
  ID INT PRIMARY KEY,
  NOM TEXT,
  PRIX REAL
);
```

```
CREATE TABLE COMPOSITION(
  ID_MELANGE INT,
  ID_THE INT,
  QUANTITE REAL,

  PRIMARY KEY (ID_MELANGE, ID_THE),
  FOREIGN KEY (ID_MELANGE)
    REFERENCES MELANGE(ID),
  FOREIGN KEY (ID_THE)
    REFERENCES THE(ID)
);
```

Exercice 2 (10 pts). Concevoir un diagramme E/A correspondant au schéma relationnel suivant :

```
CREATE TABLE A (  
    ID    INT PRIMARY KEY,  
    ATR3  TEXT  
);
```

```
CREATE TABLE B (  
    ID_A  INT,  
    ID_C  INT,  
    ATR1  INT,  
    ATR2  TEXT,  
    PRIMARY KEY (ID_A, ID_C, ATR1),  
    FOREIGN KEY (ID_A) REFERENCES A(ID),  
    FOREIGN KEY (ID_C) REFERENCES C(ID)  
);
```

```
CREATE TABLE C (  
    ID    INT PRIMARY KEY,  
    ATR1  TEXT,  
    ATR2  TEXT  
);
```

```
CREATE TABLE D (  
    ID    INT PRIMARY KEY,  
    ATR1  TEXT  
    ID_C  INT,  
    FOREIGN KEY (ID_C) REFERENCES C(ID)  
);
```

```
CREATE TABLE E (  
    ID_D  INT,  
    ID_F  INT,  
    ATR1  TEXT,  
    PRIMARY KEY (ID_D, ID_F),  
    FOREIGN KEY (ID_D) REFERENCES D(ID),  
    FOREIGN KEY (ID_F) REFERENCES F(ID)  
);
```

```
CREATE TABLE F (  
    ID    INT PRIMARY KEY,  
    ATR1  TEXT,  
    ATR2  TEXT  
);
```

```
CREATE TABLE G (  
    ID_A  INT,  
    ID_F  INT,  
    ATR1  INT,  
    PRIMARY KEY (ID_A, ATR1),  
    FOREIGN KEY (ID_A) REFERENCES A(ID),  
    FOREIGN KEY (ID_F) REFERENCES F(ID)  
);
```