Solution de l'exercice 1.

1. a)

```sql
CREATE TABLE Formateur (
    NirFormateur TEXT,
    NomFormateur TEXT,
    PrenomFormateur TEXT,
    AdresseFormateur TEXT,
    CPFormateur TEXT,
    VilleFormateur TEXT,
    SpecialiteFormateur TEXT,
    SirenEntreprise TEXT,
    PRIMARY KEY (NirFormateur),
    FOREIGN KEY (SirenEntreprise)
        REFERENCES Entreprise(Siren))
```

b)

```sql
CREATE TABLE Anime (
    NumeroAnimation INTEGER,
    NirFormateur TEXT,
    CodeFormation TEXT,
    PRIMARY KEY (NumeroAnimation),
    FOREIGN KEY (NirFormateur)
        REFERENCES Formateur(NirFormateur),
    FOREIGN KEY (CodeFormation)
        REFERENCES Formation(CodeFormation))
```

2. a)

```sql
CREATE TABLE Clients (
    Cl_num INTEGER,
    Cl_nom TEXT,
    Cl_rue TEXT,
    Cl_ville TEXT,
    PRIMARY KEY (Cl_num))
```

b)

```sql
CREATE TABLE Tarif_Forfait (
    Do_num INTEGER,
    TF_num INTEGER,
    TP_num INTEGER,
    Sa_num INTEGER,
    Mt_forfait FLOAT,
    FOREIGN KEY (Do_num)
        REFERENCES Domaine_Skiable(Do_num),
    FOREIGN KEY (TF_num)
        REFERENCES Type_Forfait(TF_num),
    FOREIGN KEY (TP_num)
        REFERENCES Type_Public(TP_num),
    FOREIGN KEY (Sa_num)
        REFERENCES Saison(Sa_num))
```

□

Solution de l'exercice 2.

1. a)

```sql
INSERT INTO Formation
(CodeFormation, DesignationFormation, LieuFormation,
  DateDebutFormation, DureeFormation,
  ResponsableFormation, CoutFormation)
VALUES
(20258, "Sécurité",
  "Toulouse", "23-05-06", 10,
  "Mme␣Frele", 700)
```

b)

```sql
INSERT INTO Inscrit
(NumeroInscription, NirStagiaire, CodeFormation)
VALUES
(117, "2751131586984", 20258)
```

2. a)

```
INSERT INTO Badge
(Ba_num, Do_num, TP_num,
  TF_num, Cl_num, Ba_date)
VALUES
(5246, 4, 5, 21, 251,
  "2013-12-26")
```

b)

```
INSERT INTO Domaine_Skiable
(Do_num, Do_nom)
VALUES
(4, "Les␣7␣Vallées")
```

☐

Solution de l'exercice 3.

1. a)

```
DELETE FROM Stagiaire
WHERE DatenaissanceStagiaire = 1980-02-30
```

b)

```
DELETE FROM Entreprise
WHERE Siren = "571261524"
```

2. a)

```
DELETE FROM Clients
WHERE Cl_nom = "Dupont" AND Cl_ville = "Nemours"
```

b)

```
DELETE FROM Badge
WHERE Ba_num = 31415 OR Ba_num = 2718
```

☐

Solution de l'exercice 4.

1. a)

```
UPDATE Formation
SET DateDebutFormation = 2023-01-03
WHERE DateDebutFormation = 2023-01-02
```

b)

```
UPDATE Formateur
SET SpecialiteFormateur = "Mathématiques"
WHERE SpecialiteFormateur = "Maths"
```

2.

```
UPDATE Tarif_Forfait
SET Mt_forfait = 40
WHERE Mt_forfait = 30
```

☐

Solution de l'exercice 5.

1. a)

```
SELECT NomFormateur, NumeroAnimation
FROM Formateur
INNER JOIN Anime
```

b)

```
SELECT NomFormateur, NomEntreprise
FROM Formateur
INNER JOIN Entreprise
```

2. a)

```
SELECT Do_nom, Mt_forfait
FROM Domaine_Skiable
INNER JOIN Tarif_Forfait
```

b)

```
SELECT Ba_num, Cl_nom
FROM Clients
INNER JOIN Badge
```

c)

```
SELECT Cl_nom, Ba_date
FROM Clients
INNER JOIN Badge
```

d)

```
SELECT Ba_num, Do_nom
FROM Badge
INNER JOIN Domaine_Skiable
```

☐

d)

```
SELECT COUNT(*)
FROM Clients
```

e)

```
SELECT COUNT(*)
FROM Domaine_Skiable
```

☐

Solution de l'exercice 6.

1. a)

```
SELECT COUNT(*)
FROM Formation
```

b)

```
SELECT MIN(DatenaissanceStagiaire)
FROM Stagiaire
```

c)

```
SELECT COUNT(*)
FROM Formation
WHERE DesignationFormation = "Sécurité"
```

2. a)

```
SELECT MIN(Mt_forfait)
FROM Tarif_Forfait
```

b)

```
SELECT MAX(Mt_forfait)
FROM Tarif_Forfait
```

c)

```
SELECT AVG(Mt_forfait)
FROM Tarif_Forfait
```