## I. Création des tables et des clés primaires

```sql
use etudiantFormation;

CREATE TABLE etudiant (
        matricule_etudiant INT IDENTITY(1, 1) NOT NULL,
        nom_etudiant VARCHAR(25) NOT NULL,
        prenom_etudiant VARCHAR(25) NOT NULL,
        age_etudiant INT NOT NULL,
        formation_code VARCHAR(5) NOT NULL,
        CONSTRAINT PK_matricule_etudiant PRIMARY KEY (matricule_etudiant)
);

CREATE TABLE formation (
        code_formation VARCHAR(5) NOT NULL,
        nom_formation VARCHAR(25) NOT NULL,
        nombre_total_places_formation INT NOT NULL,
        nombre_restant_places_formation INT NOT NULL,
        date_debut_formation DATE NOT NULL,
        date_fin_formation DATE NOT NULL,
        CONSTRAINT PK_code_formation PRIMARY KEY (code_formation)
);
```

## II. Création des clés étrangères

```sql
use etudiantFormation;

ALTER TABLE etudiant
ADD CONSTRAINT FK_formation_etudiant
FOREIGN KEY (formation_code)
REFERENCES formation(code_formation);
```

## III. Insertion des données dans les tables

```sql
use etudiantFormation;

INSERT INTO formation (code_formation, nom_formation, nombre_total_places_formation, nombre_restant_places_formation,
date_debut_formation, date_fin_formation)
VALUES
('FORM1', 'Formation Un', 10, 5, '10-06-2023', '10-12-2023'),
('FORM2', 'Formation Deux', 10, 6, '05-04-2023', '06-10-2023'),
('FORM3', 'Formation Trois', 12, 9, '09-02-2023', '10-06-2023'),
('FORM4', 'Formation Quatre', 10, 8, '06-03-2023', '10-09-2023'),
('FORM5', 'Formation Cinq', 5, 4, '20-07-2023', '25-12-2023');

INSERT INTO etudiant (nom_etudiant, prenom_etudiant, age_etudiant, formation_code)
VALUES
('Badi', 'Lila', 20, 'FORM1'),
('Douis', 'Jonathan', 21, 'FORM2'),
('Rougé', 'Mickaël', 20, 'FORM1'),
('Campan', 'Laurent', 22, 'FORM3'),
('Mendes', 'Cindy', 25, 'FORM2'),
('Luciano', 'Romain', 25, 'FORM2'),
('Raoux', 'Nicolas', 20, 'FORM1'),
('Faggioli', 'Yann', 19, 'FORM1'),
('Bouisson', 'Mallaury', 20, 'FORM3'),
('Ben Kalaia', 'Mohamed', 24, 'FORM3'),
('Leempoels', 'Sébastien', 28, 'FORM1'),
('Hamadou', 'Qaïs', 27, 'FORM2'),
('Lapraz', 'Isabelle', 20, 'FORM4'),
('Luciano', 'Florian', 23, 'FORM5');
```