**etudiant (numetud, #numtel)**

CREATE TABLE etudiant (numetud INTEGER CONSTRAINT pk\_etudiant PRIMARY KEY, num\_tel INTEGER REFERENCES personne (num\_tel) [ON DELETE CASCADE])

**personne (numtel, nom, prenom)**

CREATE TABLE personne (numtel INTEGER CONSTRAINT pk\_personne PRIMARY KEY, nom VARCHAR(30), prenom VARCHAR(30))

**stage (numstage, #numetud, intitule, mots\_cle, duree, annee, #idPO)**

CREATE TABLE stage (numstage INTEGER CONSTRAINT pk\_stage PRIMARY KEY, numetud INTEGER REFERENCES etudiant (numetud), idPO INTEGER REFERENCES PO (idPO), intitule VARCHAR(30), mots\_cle VARCHAR(50), duree INTEGER, annee INTEGER)

**enseignant(idenseignant, #idjury)**

CREATE TABLE enseignant (idenseignant INTEGER CONSTRAINT pk\_enseignant PRIMARY KEY,

idjury INTEGER REFERENCES jury (idjury))

**tuteur(#idenseignant, #tel, #numstage, #idjury)**

CREATE TABLE tuteur (idenseignant INTEGER CONSTRAINT pk\_tuteur PRIMARY KEY, fk\_idenseignant INTEGER REFERENCES enseignant (idenseignant), tel INTEGER REFERENCES personnel (tel), numstage INTEGER REFERENCES stage (numstage), idjury INTEGER REFERENCES jury (idjury))

**personnel (tel, nom, prenom, fonction, mail)**

CREATE TABLE personnel(tel INTEGER CONSTRAINT pk\_personnel PRIMARY KEY, nom VARCHAR(20),prenom VARCHAR(20),fonction VARCHAR(20),mail VARCHAR(40))

**etablissement (numetab, #numstage, #numetud, #adresse)**

CREATE TABLE etablissement(numetab INTEGER PRIMARY KEY,

numstage INTEGER REFERENCES stage(numstage),

numetud INTEGER REFERENCES etudiant(numetud),

adresse VARCHAR(20) REFERENCES nometab(adresse))

**nom\_etab (adresse, nom)**

CREATE TABLE nometab(adresse VARCHAR(40) CONSTRAINT pk\_nometab PRIMARY KEY, nom VARCHAR(20))

**laboratoire (#numetab(numlab), unit\_recherche)**

CREATE TABLE laboratoire (numlab\_prim INTEGER CONSTRAINT pk\_lab PRIMARY KEY,numlab\_for INTEGER REFERENCES etablissement(numetab),unit\_recherche VARCHAR(30))

**entreprise (#numetab(numentr), SIRET)**

CREATE TABLE entreprise(numentr\_prim INTEGER CONSTRAINT pk\_etab PRIMARY KEY, numentr\_for INTEGER REFERENCES etablissement(numetab), SIRET INTEGER)

**encadrant (numencad, #tel)**

CREATE TABLE encadrant (numencad INTEGER PRIMARY KEY, tel INTEGER REFERENCES personne(tel))

**encadre (#numencad, #numstage)**

CREATE TABLE encadre (pk\_numencad INTEGER, pk\_numstage INTEGER, PRIMARY KEY (pk\_numencad, pk\_numstage), fk\_numencad INTEGER REFERENCES encadrant (numencadrant), fk\_numstage INTEGER REFERENCES stage (numstage))

**industriel (#numencad, #numentr)**

CREATE TABLE PO (idPO INTEGER PRIMARY KEY

departement VARCHAR(40)

intitule VARCHAR(20))

**participe (#numencad, #idjury)**

CREATE TABLE participe (pk\_numencad INTEGER, pk\_idjury INTEGER, PRIMARY KEY (pk\_numencad, pk\_idjury), numencad\_fk INTEGER REFERENCES encadrant (numencad), pk\_idjury INTEGER REFERENCES jury (idjury))

**chercheur (#numencad, #numlab)**

CREATE TABLE chercheur (numencad INTEGER PRIMARY KEY, num\_lab INTEGER, CONSTRAINT fk\_numlab FOREIGN KEY numlab REFERENCES laboratoire (numlab) ON DELETE SET NULL)

**rapport\_stage (idrapport, #numstage, intitule)**

CREATE TABLE rapport\_stage (

idrapport INTEGER PRIMARY KEY,

numstage INTEGER,

CONSTRAINT fk\_numstage FOREIGN KEY numstage REFERENCES stage (numstage) ON DELETE CASCADE, intitule VARCHAR(64))

**rapporteur (#idenseignant)**

CREATE TABLE rapporteur(

idenseignant INTEGER PRIMARY KEY,

CONTRAINT fk\_idenseignant FOREIGN KEY enseignant (idenseignant))

**note\_rapport (#idenseignant, #idrapport, note)**

CREATE TABLE note\_rapport(

idnote\_rapport INTEGER,

idenseignant INTEGER,

idrapport INTEGER,

note INTEGER,

CONSTRAINT pk\_note\_rapport PRIMARY KEY (idnote\_rapport, idenseignant),

CONSTRAINT fk\_idenseignant FOREIGN KEY idenseignant REFERENCES enseignant (idenseignant),

CONSTRAINT fk\_idrapport FOREIGN KEY idrapport REFERENCES rapport (idrapport))

**evaluation (#numetud, #numstage, #numencad, note, comp\_tech, integration, communication)**

CREATE TABLE evaluation(

numetud INTEGER,

numstage INTEGER ,

numencad INTEGER,

note INTEGER,

comp\_tech TEXT,

integration TEXT,

communication TEXT,

CONSTRAINT pk\_evaluation PRIMARY KEY (numetud, num\_stage),

CONSTRAINT fk\_num\_etud FOREIGN KEY numetud REFERENCES etudiant(num\_etud),

CONSTRAINT fk\_numstage FOREIGN KEY numstage REFERENCES stage(numstage))

**jury (idjury, #numstage)**

CREATE TABLE(

idjury INTEGER PRIMARY KEY,

numstage INTEGER,

CONSTRAINT fk\_numstage FOREIGN KEY numstage REFERENCES stage(numstage))

**soutenance (idsoutenance, #numstage, #idjury, date, note\_jury, lieu)**

CREATE TABLE soutenance(

idsoutenance INTEGER PRIMARY KEY,

numstage INTEGER, idjury INTEGER ,

date DATE,

note\_jury INTEGER

lieu VARCHAR(64),

CONSTRAINT fk\_numstage FOREIGN KEY numstage REFERENCES stage (numstage),

CONSTRAINT fk\_idjury FOREIGN\_KEY idjury REFERENCES jury (idjury))