Serigne Dame GADIAGA

P2311107

TP1 BDD

```
Question 1 - 6:
CREATE TABLE EMPLOYE (
 ID_EMP SMALLINT NOT NULL,
 NOM VARCHAR(20) NOT NULL,
 PRENOM VARCHAR(20) NOT NULL,
  FONCTION VARCHAR(11) NOT NULL CHECK (FONCTION IN ('Calcul', 'Gestion', 'Information')),
 ID CHEF SMALLINT,
  DATE EMB DATE,
 SALAIRE INT NOT NULL,
 PRIME INT NOT NULL,
 ID_PROJECT SMALLINT,
 PRIMARY KEY (ID_EMP),
 FOREIGN KEY (ID_CHEF) REFERENCES EMPLOYE(ID_EMP));
CREATE TABLE DIRECTION (
 ID_DIR SMALLINT NOT NULL,
 NOM VARCHAR(20) NOT NULL,
 ID_RESP SMALLINT,
 VILLE VARCHAR(9),
 PRIMARY KEY (ID DIR),
 FOREIGN KEY(ID_RESP) REFERENCES EMPLOYE(ID_EMP));
CREATE TABLE PROJET (
 ID_PROJ SMALLINT NOT NULL,
 NOM VARCHAR(20) NOT NULL,
 ID CHEF PROJET SMALLINT,
 PRIMARY KEY (ID PROJ),
 FOREIGN KEY (ID_CHEF_PROJET) REFERENCES EMPLOYE(ID_EMP));
ALTER TABLE EMPLOYE ADD CONSTRAINT check_salaire CHECK (SALAIRE<=40000);
ALTER TABLE EMPLOYE ADD FOREIGN KEY (ID_PROJECT) REFERENCES PROJET(ID_PROJ);
```

- 7.
 ALTER TABLE EMPLOYE ADD CONSTRAINT DEFAULT_DATE_EMB CHECK (DATE_EMB = CURRENT_DATE);
- **8.**ALTER TABLE DIRECTION ADD CONSTRAINT CK_VILLE_DIRECTIONS CHECK (VILLE IN ('Cambridge', 'Oxford','Londres'));
- 9.
 ALTER TABLE EMPLOYE ADD CONSTRAINT Q_NOM_PRENOM UNIQUE (NOM,PRENOM);
- 10.
 ALTER TABLE EMPLOYE
 ADD CONSTRAINT CK_SALAIRE CHECK (SALAIRE >=1000);

Serigne Dame GADIAGA

P2311107

TP1 BDD

11.

ALTER TABLE EMPLOYE ADD CONSTRAINT CK_SALAIRE_PRIME_MAX CHECK (SALAIRE + PRIME <=40000);

12.

ALTER TABLE EMPLOYE ADD CONSTRAINT CK_CHEF_EMPLOYE CHECK (ID_CHEF IN (SELECT ID_EMP FROM EMPLOYE));

ALTER TABLE PROJET ADD CONSTRAINT CK_CHEF_PROJET CHECK (ID_CHEF_PROJET IN (SELECT ID_EMP FROM EMPLOYE));

ALTER TABLE DIRECTION ADD CONSTRAINT CK_RESPONSABLE_DIRECTION CHECK (ID_RESP IN (SELECT ID_EMP FROM EMPLOYE));

13.

ALTER TABLE EMPLOYE ADD CONSTRAINT CK_EMPLOYE_PROJET FOREIGN KEY (ID_PROJET) REFERENCES PROJET(ID_PROJ);

14.

ALTER TABLE EMPLOYE ADD CONSTRAINT CK_CHEF_EMPLOYE CHECK (ID_CHEF IS NOT NULL);

15.

ALTER TABLE PROJET

ADD CONSTRAINT CK_CHEF_PROJET

FOREIGN KEY (ID_CHEF_PROJET)

REFERENCES EMPLOYE(ID_EMP)

16.

ALTER TABLE EMPLOYE ADD CONSTRAINT CK_BUDJET_GLOBAL CHECK (SALAIRE + PRIME <=10000000);