

RÉPUBLIQUE DU CAMEROUN

PAIX-TRAVAIL-PATRIE

MINISTÈRE DE L'ENSEIGNEMENT
SUPÉRIEUR

INSTITUT UNIVERSITAIRE DES
TECHNOLOGIES



REPUBLIC OF CAMEROON

PEACE-WORK-FATHERLAND

MINISTRY OF HIGHER EDUCATION

UNIVERSITY INSTITUTE OF
TECHNOLOGIES

CONCEPTS DE BASE DE DONNEES

**Realiser par l etudiant: TENEKEU TSAFACK DONY
ARMEL**

➤ **M.MOUNGOLE ARISTIDE**

ANNEE ACADEMIQUE

2024/2025

1-CREER UNE BASE DE DONNEES CENTRE DE FORMATION

```
mysql> create database centre_formation;  
Query OK, 1 row affected (0.06 sec)  
  
mysql> use centre_formation;  
Database changed
```

2-CREONS LES TABLES DEPUIS LE MLD

```
mysql> create table etudiant(num_cni_etu smallint primary key not null auto_increment ,nom_etu varchar(50),prenom_etu varchar(50),date_naissance date,adresse_etu varchar(50),ville_etu varchar(50),niveau_etu varchar(50));  
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> create table session(code_sess smallint primary key auto_increment not null,date_debut date,date_fin date);  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> create table formation(code_formation smallint primary key auto_increment not null ,titre_form varchar(50),duree_form varchar(50),prof_form varchar(50));  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table specialite(code_spec smallint primary key not null auto_increment,nom_spec varchar(50),descrip_spec varchar(50));  
ERROR 2006 (HY000): MySQL server has gone away  
No connection. Trying to reconnect...  
Connection id: 2  
Current database: centre_formation  
  
Query OK, 0 rows affected (0.34 sec)
```

```
mysql> create table inscription(code_sess smallint,num_cni_etu smallint PRIMARY KEY NOT NULL AUTO_increment ,type_cours varchar(50));
ERROR 2006 (HY000): MySQL server has gone away
No connection. Trying to reconnect...
Connection id: 3
Current database: centre_formation

Query OK, 0 rows affected (2.63 sec)
```

```
mysql> alter table inscription add foreign key(num_cni_etu) references inscription(num_cni_etu);
Query OK, 0 rows affected (1.39 sec)
Enregistrements: 0 Doublons: 0 Avertissements: 0

mysql> alter table inscription add foreign key(code_sess) references inscription(code_sess);
ERROR 1072 (42000): La clé 'code_sess' n'existe pas dans la table
mysql> alter table inscription add foreign key(code_sess) references inscription(code_sess);
Query OK, 0 rows affected (0.06 sec)
Enregistrements: 0 Doublons: 0 Avertissements: 0
```

```
mysql> create table appartenir(code_form smallint,code_spec smallint primary key not null auto_increment);
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> alter table appartenir add foreign key (code-form) references formation(code_form);
ERROR 1064 (42000): Erreur de syntaxe près de '-form) references formation(code_form)' à la ligne 1
mysql> alter table appartenir add foreign key (code_form) references formation(code_form);
Query OK, 0 rows affected (0.10 sec)
Enregistrements: 0 Doublons: 0 Avertissements: 0

mysql> alter table appartenir add foreign key (code_spec) references specialite(code_spec);
Query OK, 0 rows affected (0.06 sec)
Enregistrements: 0 Doublons: 0 Avertissements: 0
```

```
mysql> show tables;
+-----+
| Tables_in_centre_formation |
+-----+
| appartenir                  |
| etudiant                   |
| formation                   |
| inscription                 |
| sessions                   |
| specialite                  |
+-----+
6 rows in set (0.30 sec)
```

3-AJOUTER UNE CONTRAINTE NOT NULL SUR LA COLONNE TYPE COURS DE LA TABLE INSCRIPTION

```
mysql> alter table inscription modify column type_cours char(5) not null;
Query OK, 0 rows affected (0.15 sec)
Enregistrements: 0 Doublons: 0 Avertissements: 0

mysql> describe inscription;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| code_sess  | smallint(6) | YES  | MUL | NULL    |            |
| num_cni_etu | smallint(6) | NO   | PRI | NULL    | auto_increment |
| type_cours | char(5)     | NO   |     | NULL    |            |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)
```

4-AJOUTER UNE CONTRAINTE CHECK DANS LA TABLE SESSION

```
mysql> alter table session ADD CONSTRAINT check_date_fin_positive CHECK (date_fin > date_debut);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

5-AJOUTER UNE COLONNE ACTIVE SUR LA TABLE SPECIALITE

```
mysql> ALTER TABLE specialite  
-> ADD active BOOLEAN DEFAULT TRUE;  
Query OK, 0 rows affected (0.83 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```