专业实习数据库设计

1. client

```
create table client

(
    clientID char(20) primary key
    clientName char(40) not null unique
    clientLocation char(20)
    clientIntro varchar(500)
)
```

2. user

```
create table user
(
    userID char(20) primary key
    userAccount char(20) not null
    userPassword char(20) not null
    userAuth int
    clientID char(20) foreign key references client(clientID) on delete cascade
)
```

3. userInfo

```
create table userInfo
(
    userID char(20) primary key,foreign key references user(userID) on delete
cascade
    userName char(20)
    userPhone char(20)
    userEmail char(30)
)
```

4. template

```
create table  template
(
    templateID char(20) primary key
    templateInfo char(100)
    templateName char(20) unique
     clientID char(20) foreign key references client(clientID) on delete cascade
 )
```

5.indicator

```
create table indicator
(
    //common property of indicator
    indicatorID char(20) primary key
    parent char(20)
    level int
    indicatorName char(40)
    description char(200)
    //specific property of leaf indicator
    ESGId char(20)
    indicatorType int//0-定量 1-定性 2-系数计算
    //property for coefficient calculation
    sourceESGId char(20)
    coeffientID char(20) foreign key
    unitID char(20) foreign key
    frequency int //0-年 1-月
    yearTotalType int //0-mean  1-sum
)
```

6.templateIndicator

```
create table templateIndicator
(
    indicatorID char(20) primary key,foreign key
    templateID char(20) primary key,foreign key
)
```

8.report

```
create table report
(
    reportID char(20) primary key
    templateID char(20) foreign key
    reporterID char(20) foreign key
    reportYear int
    reportMonth int
    commitState int //默认二级管理员看不到报表,只有提交才看得到
    checkState int//默认未审核状态
)
```

9. record

```
create table record
(
    recordID char(20) primary key
    reportID char(20) foreign key referencing report
    indicatorID char(20) foreign key referencing template
    recordType int //text or numeric
    sourceRecordData char(50)
    recordData char(50)
)
```

10. coefficient

```sql
create table coefficient
(
    coefficientID char(20) primary key
    coefficient numeric(20,8)
)
```

11. unit

```sql
create table unit
(
    unitID char(20) primary key
    unitZHName char(50)
    unitENName char(50)
)
```