Script SQL

Heddy

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Leclère Adrien

1. Création des BDD + Tâble

CREATE DATA BASE mathindex ;

- Structure de la table `classroom`

```
CREATE TABLE `classroom` (
  `id` int(11) NOT NULL,
  `name` varchar(255) NOT NULL
) ;
```

- Structure de la table `exercise`

```
CREATE TABLE `exercise` (
  `id` int(11) NOT NULL,
  `name` varchar(255) NOT NULL,
  `classroom_id` int(11) NOT NULL,
  `thematic_id` int(11) NOT NULL,
  `chapter` varchar(255) NOT NULL,
  `keywords` text NOT NULL,
  `difficulty` int(2) NOT NULL,
  `duration` float NOT NULL,
  `origin_id` int(11) NOT NULL,
  `origin_name` varchar(255) NOT NULL,
  `origin_information` text NOT NULL,
  `exercice_file_id` int(11) NOT NULL,
  `correction_file_id` int(11) NOT NULL,
  `created_by_id` int(11) NOT NULL
) ;
```

- Structure de la table `file`

```
CREATE TABLE `file` (
  `id` int(11) NOT NULL,
  `name` varchar(255) NOT NULL,
  `original_name` varchar(255) NOT NULL,
  `extension` varchar(255) NOT NULL,
  `size` int(11) NOT NULL
) ;
```

- Structure de la table `origin`

```
CREATE TABLE `origin` (
  `id` int(11) NOT NULL,
  `name` varchar(255) NOT NULL
) ;
```

- Structure de la table `thematic`

```
CREATE TABLE `thematic` (
  `id` int(11) NOT NULL,
  `name` varchar(255) NOT NULL
) ;
```

- Structure de la table `user`

```
CREATE TABLE `user` (
  `id` int(11) NOT NULL,
  `email` varchar(255) NOT NULL,
  `last_name` varchar(255) NOT NULL,
  `first_name` varchar(255) NOT NULL,
  `role` varchar(255) NOT NULL,
  `password` varchar(255) NOT NULL
) ;
```

2) Création de clé pirmaire

Index pour la table `classroom`

```
ALTER TABLE `classroom`
  ADD PRIMARY KEY (`id`,`name`);
```

Index pour la table `exercise`

```
ALTER TABLE `exercise`
  ADD PRIMARY KEY (`id`),
  ADD KEY `classroom_id` (`classroom_id`),
  ADD KEY `thematic_id` (`thematic_id`),
  ADD KEY `origin_id` (`origin_id`),
  ADD KEY `exercice_file_id` (`exercice_file_id`),
  ADD KEY `correction_file_id` (`correction_file_id`),
  ADD KEY `created_by_id` (`created_by_id`);
```

Index pour la table `file`

```
ALTER TABLE `file`
  ADD PRIMARY KEY (`id`);
```

-Index pour la table `origin`

```
ALTER TABLE `origin`
  ADD PRIMARY KEY (`id`);
```

Index pour la table `thematic`

```
ALTER TABLE `thematic`
  ADD PRIMARY KEY (`id`);
```

Index pour la table `user`

```
ALTER TABLE `user`
  ADD PRIMARY KEY (`id`,`email`);
```

3) Création de clé étrangère

Contraintes pour la table `exercise`

```
ALTER TABLE `exercise`
  ADD CONSTRAINT `exercise_ibfk_1` FOREIGN KEY (`classroom_id`) REFERENCES `classroom` (`id`),
  ADD CONSTRAINT `exercise_ibfk_2` FOREIGN KEY (`thematic_id`) REFERENCES `thematic` (`id`),
  ADD CONSTRAINT `exercise_ibfk_3` FOREIGN KEY (`origin_id`) REFERENCES `origin` (`id`),
  ADD CONSTRAINT `exercise_ibfk_4` FOREIGN KEY (`exercice_file_id`) REFERENCES `file` (`id`),
  ADD CONSTRAINT `exercise_ibfk_5` FOREIGN KEY (`correction_file_id`) REFERENCES `file` (`id`),
  ADD CONSTRAINT `exercise_ibfk_6` FOREIGN KEY (`created_by_id`) REFERENCES `user` (`id`);
```