**Script SQL**

Heddy

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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`);

**4) Modification pour l’ajout d’une colonne date dans la table exercise :**

ALTER TABLE exercise

ADD COLUMN date\_ajout TIMESTAMP DEFAULT CURRENT\_TIMESTAMP;