



-- MySQL Script generated by MySQL Workbench

-- Mon Mar 18 19:38:52 2024

-- Model: New Model Version: 1.0

-- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;

SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0;

SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_Z
ERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';

-- Schema mydb

-- Table `Aluno`

DROP TABLE IF EXISTS `Aluno` ;

```
CREATE TABLE IF NOT EXISTS `Aluno` (  
  `CPF` VARCHAR(11) NOT NULL,  
  `nome` VARCHAR(45) NOT NULL,  
  `sobrenome` VARCHAR(45) NOT NULL,  
  `sexo` CHAR NOT NULL,  
  `dataNasc` DATE NOT NULL,  
  PRIMARY KEY (`CPF`))  
ENGINE = InnoDB;
```

```
CREATE UNIQUE INDEX `CPF_UNIQUE` ON `Aluno` (`CPF` ASC) VISIBLE;
```

```
-----  
-- Table `Area`  
-----
```

```
DROP TABLE IF EXISTS `Area` ;
```

```
CREATE TABLE IF NOT EXISTS `Area` (  
  `sigla` VARCHAR(10) GENERATED ALWAYS AS () VIRTUAL,  
  `nome` VARCHAR(45) NOT NULL,  
  `superArea` VARCHAR(10) NOT NULL,  
  PRIMARY KEY (`sigla`),  
  CONSTRAINT `fk_Area_Area`  
    FOREIGN KEY (`superArea`)  
    REFERENCES `Area` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
CREATE UNIQUE INDEX `sigla_UNIQUE` ON `Area` (`sigla` ASC) VISIBLE;
```

```
CREATE INDEX `fk_Area_Area_idx` ON `Area` (`superArea` ASC) VISIBLE;
```

```
-----  
-- Table `Curso`  
-----
```

```
DROP TABLE IF EXISTS `Curso` ;
```

```
CREATE TABLE IF NOT EXISTS `Curso` (  
  `sigla` VARCHAR(10) GENERATED ALWAYS AS () VIRTUAL,  
  `nome` VARCHAR(45) NOT NULL,  
  `horas` TIME NOT NULL,  
  `custo` FLOAT NOT NULL,  
  `area` VARCHAR(10) NOT NULL,  
  PRIMARY KEY (`sigla`),  
  CONSTRAINT `fk_Curso_Area1`  
    FOREIGN KEY (`area`)  
    REFERENCES `Area` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
CREATE UNIQUE INDEX `sigla_UNIQUE` ON `Curso` (`sigla` ASC) VISIBLE;
```

```
CREATE INDEX `fk_Curso_Area1_idx` ON `Curso` (`area` ASC) VISIBLE;
```

```
-----  
-- Table `Matricula`  
-----
```

```
DROP TABLE IF EXISTS `Matricula` ;
```

```
CREATE TABLE IF NOT EXISTS `Matricula` (  
  `data` DATE NOT NULL,  
  `pago` TINYINT NOT NULL,  
  `aluno` VARCHAR(11) NOT NULL,  
  `curso` VARCHAR(10) NOT NULL,  
  PRIMARY KEY (`aluno`, `curso`),  
  CONSTRAINT `fk_Matricula_Aluno1`  
    FOREIGN KEY (`aluno`)  
    REFERENCES `Aluno` (`CPF`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Matricula_Curso1`  
    FOREIGN KEY (`curso`)  
    REFERENCES `Curso` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
CREATE INDEX `fk_Matricula_Aluno1_idx` ON `Matricula` (`aluno` ASC) VISIBLE;
```

```
CREATE INDEX `fk_Matricula_Curso1_idx` ON `Matricula` (`curso` ASC) VISIBLE;
```

```
-----  
-- Table `Modulo`  
-----
```

```
DROP TABLE IF EXISTS `Modulo` ;
```

```
CREATE TABLE IF NOT EXISTS `Modulo` (  
  `data` DATE NOT NULL,  
  `pago` TINYINT NOT NULL,  
  `aluno` VARCHAR(11) NOT NULL,  
  `curso` VARCHAR(10) NOT NULL,  
  PRIMARY KEY (`aluno`, `curso`),  
  CONSTRAINT `fk_Modulo_Aluno1`  
    FOREIGN KEY (`aluno`)  
    REFERENCES `Aluno` (`CPF`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Modulo_Curso1`  
    FOREIGN KEY (`curso`)  
    REFERENCES `Curso` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```

`sigla` VARCHAR(10) GENERATED ALWAYS AS () VIRTUAL,
`nome` VARCHAR(45) NULL,
`curso` VARCHAR(10) NOT NULL,
PRIMARY KEY (`sigla`),
CONSTRAINT `fk_Modulo_Curso1`
FOREIGN KEY (`curso`)
REFERENCES `Curso` (`sigla`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

CREATE UNIQUE INDEX `sigla_UNIQUE` ON `Modulo` (`sigla` ASC) VISIBLE;

CREATE INDEX `fk_Modulo_Curso1_idx` ON `Modulo` (`curso` ASC) VISIBLE;

```

```

-----
-- Table `Professor`
-----

```

```

DROP TABLE IF EXISTS `Professor` ;

```

```

CREATE TABLE IF NOT EXISTS `Professor` (
  `CPF` VARCHAR(11) NOT NULL,
  `name` VARCHAR(45) NOT NULL,
  `curso` VARCHAR(10) NOT NULL,
  PRIMARY KEY (`CPF`),
  CONSTRAINT `fk_Professor_Curso1`
  FOREIGN KEY (`curso`)
  REFERENCES `Curso` (`sigla`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)

```

```
ENGINE = InnoDB;
```

```
CREATE UNIQUE INDEX `CPF_UNIQUE` ON `Professor` (`CPF` ASC) VISIBLE;
```

```
CREATE INDEX `fk_Professor_Curso1_idx` ON `Professor` (`curso` ASC) VISIBLE;
```

```
-----  
-- Table `Topico`  
-----
```

```
DROP TABLE IF EXISTS `Topico` ;
```

```
CREATE TABLE IF NOT EXISTS `Topico` (  
  `sigla` VARCHAR(10) GENERATED ALWAYS AS () VIRTUAL,  
  `nome` VARCHAR(45) NOT NULL,  
  `horas` TIME NOT NULL,  
  `modulo` VARCHAR(10) NOT NULL,  
  PRIMARY KEY (`sigla`),  
  CONSTRAINT `fk_Topico_Modulo1`  
    FOREIGN KEY (`modulo`)  
    REFERENCES `Modulo` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
CREATE UNIQUE INDEX `sigla_UNIQUE` ON `Topico` (`sigla` ASC) VISIBLE;
```

```
CREATE INDEX `fk_Topico_Modulo1_idx` ON `Topico` (`modulo` ASC) VISIBLE;
```

```
SET SQL_MODE=@OLD_SQL_MODE;
```

```
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
```

```
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```