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-- MySQL Script generated by MySQL Workbench
-- Tue Sep  6 16:43:21 2022
-- 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_ZERO_DATE,ERR
OR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';

-- -----
-- Schema SAM
-- -----

-- -----
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-- -----

CREATE SCHEMA IF NOT EXISTS `SAM` DEFAULT CHARACTER SET utf8 ;
USE `SAM` ;

-- -----
-- Table `SAM`.`AREA`
-- -----

CREATE TABLE IF NOT EXISTS `SAM`.`AREA` (
  `Sigla` VARCHAR(5) NOT NULL,
  `Nome` VARCHAR(45) NOT NULL,
  `SuperArea` VARCHAR(5) NULL,
  PRIMARY KEY (`Sigla`),
  INDEX `fk_AREA_SUPERAREA` (`SuperArea` ASC, `Sigla` ASC) VISIBLE,
  UNIQUE INDEX `Sigla_UNIQUE` (`Sigla` ASC) VISIBLE,
  CONSTRAINT `SuperArea`
    FOREIGN KEY (`SuperArea` , `Sigla`)
      REFERENCES `SAM`.`AREA` (`Sigla` , `SuperArea`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

-- -----
-- Table `SAM`.`CURSO`
-- -----

CREATE TABLE IF NOT EXISTS `SAM`.`CURSO` (
  `Sigla` VARCHAR(5) NOT NULL,
  `Nome` VARCHAR(45) NOT NULL,

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`Horas` INT NULL,
`Custo` FLOAT NULL,
`Area` VARCHAR(5) NULL,
PRIMARY KEY (`Sigla`),
INDEX `fk_CURSO_AREA` (`Area` ASC) VISIBLE,
UNIQUE INDEX `Sigla_UNIQUE` (`Sigla` ASC) VISIBLE,
CONSTRAINT `fk_CURSO_AREA1`
  FOREIGN KEY (`Area`)
  REFERENCES `SAM`.`AREA` (`Sigla`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;

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-- Table `SAM`.`MODULO`
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CREATE TABLE IF NOT EXISTS `SAM`.`MODULO` (
  `Sigla` VARCHAR(5) NOT NULL,
  `Nome` VARCHAR(45) NULL,
  `Curso` VARCHAR(5) NOT NULL,
  INDEX `fk_MODULO_CURSO` (`Curso` ASC) VISIBLE,
  UNIQUE INDEX `Sigla_UNIQUE` (`Sigla` ASC) VISIBLE,
  PRIMARY KEY (`Sigla`),
  CONSTRAINT `fk_MODULO_CURSO1`
    FOREIGN KEY (`Curso`)
    REFERENCES `SAM`.`CURSO` (`Sigla`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

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-- Table `SAM`.`TOPICO`
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CREATE TABLE IF NOT EXISTS `SAM`.`TOPICO` (
  `Modulo` VARCHAR(5) NOT NULL,
  `Sigla` VARCHAR(5) NOT NULL,
  `Nome` VARCHAR(45) NULL,
  `Horas` INT NOT NULL DEFAULT 0,
  PRIMARY KEY (`Modulo`, `Sigla`),
  CONSTRAINT `fk_TOPICO_MODULO1`
    FOREIGN KEY (`Modulo`)
    REFERENCES `SAM`.`MODULO` (`Sigla`)
    ON DELETE NO ACTION

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        ON UPDATE NO ACTION)
ENGINE = InnoDB;

-----
-- Table `SAM`.`ALUNO`
-----

CREATE TABLE IF NOT EXISTS `SAM`.`ALUNO` (
  `CPF` INT(11) NOT NULL,
  `Nome` VARCHAR(45) NOT NULL,
  `Sobrenome` VARCHAR(80) NULL,
  `Sexo` CHAR(1) NULL,
  `DataNasc` DATE NULL,
  PRIMARY KEY (`CPF`),
  UNIQUE INDEX `CPF_UNIQUE` (`CPF` ASC) VISIBLE)
ENGINE = InnoDB;

-----
-- Table `SAM`.`MATRICULA`
-----

CREATE TABLE IF NOT EXISTS `SAM`.`MATRICULA` (
  `Curso` VARCHAR(5) NOT NULL,
  `Aluno` INT(11) NOT NULL,
  `Data` DATE NULL,
  `Pago` TINYINT NOT NULL DEFAULT 0,
  PRIMARY KEY (`Curso`, `Aluno`),
  INDEX `fk_MATRICULA_ALUNO` (`Aluno` ASC) VISIBLE,
  CONSTRAINT `fk_MATRICULA_CURS01`
    FOREIGN KEY (`Curso`)
      REFERENCES `SAM`.`CURSO` (`Sigla`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION,
  CONSTRAINT `fk_MATRICULA_ALUNO1`
    FOREIGN KEY (`Aluno`)
      REFERENCES `SAM`.`ALUNO` (`CPF`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

-----
-- Table `SAM`.`PROFESSOR`
-----

CREATE TABLE IF NOT EXISTS `SAM`.`PROFESSOR` (

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`Curso` VARCHAR(5) NOT NULL,  
`CPF` INT(11) NOT NULL,  
`Nome` VARCHAR(125) NOT NULL,  
PRIMARY KEY (`Curso`, `CPF`),  
CONSTRAINT `fk_PROFESSOR_CURS01`  
    FOREIGN KEY (`Curso`)  
    REFERENCES `SAM`.`CURSO` (`Sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;  
  
SET SQL_MODE=@OLD_SQL_MODE;  
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;  
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```