



SCRIPT:

-- MySQL Script generated by MySQL Workbench

-- Tue Mar 19 21:10:09 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_ZERO_DATE,ERROR_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(7) NOT NULL,

 `nome` VARCHAR(45) NOT NULL,

 `superArea` VARCHAR(7) NOT NULL,

 PRIMARY KEY (`sigla`),

 INDEX `fk_AREA_AREA_idx` (`superArea` ASC) VISIBLE,

 CONSTRAINT `fk_AREA_AREA`

 FOREIGN KEY (`superArea`)

 REFERENCES `SAM`.`AREA` (`sigla`)

 ON DELETE NO ACTION

 ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- Table `SAM`.`ALUNO`

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

 `CPF` VARCHAR(11) NOT NULL,

```
`nome` VARCHAR(45) NOT NULL,  
`sobrenome` VARCHAR(45) NOT NULL,  
`sexo` VARCHAR(1) NOT NULL,  
`dataNasc` DATE NOT NULL,  
PRIMARY KEY (`CPF`))  
ENGINE = InnoDB;
```

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

```
CREATE TABLE IF NOT EXISTS `SAM`.`CURSO` (  
  `sigla` VARCHAR(7) NOT NULL,  
  `nome` VARCHAR(45) NOT NULL,  
  `horas` INT NOT NULL,  
  `custo` FLOAT NOT NULL,  
  `area` VARCHAR(7) NOT NULL,  
  `ALUNO_CPF` VARCHAR(11) NOT NULL,  
  PRIMARY KEY (`sigla`, `ALUNO_CPF`),  
  INDEX `fk_CURSO_AREA1_idx` (`area` ASC) VISIBLE,  
  INDEX `fk_CURSO_ALUNO1_idx` (`ALUNO_CPF` ASC) VISIBLE,  
  CONSTRAINT `fk_CURSO_AREA1`  
    FOREIGN KEY (`area`)  
    REFERENCES `SAM`.`AREA` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_CURSO_ALUNO1`  
    FOREIGN KEY (`ALUNO_CPF`)  
    REFERENCES `SAM`.`ALUNO` (`CPF`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)
```

ENGINE = InnoDB;

-- Table `SAM`.`PROFESSOR`

```
CREATE TABLE IF NOT EXISTS `SAM`.`PROFESSOR` (  
  `cpf` VARCHAR(11) NOT NULL,  
  `curso` VARCHAR(7) NOT NULL,  
  `nome` VARCHAR(45) NOT NULL,  
  PRIMARY KEY (`cpf`, `curso`),  
  INDEX `fk_PROFESSOR_CURSO1_idx` (`curso` ASC) VISIBLE,  
  CONSTRAINT `fk_PROFESSOR_CURSO1`  
    FOREIGN KEY (`curso`)  
    REFERENCES `SAM`.`CURSO` (`sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

-- Table `SAM`.`MATRICULA`

```
CREATE TABLE IF NOT EXISTS `SAM`.`MATRICULA` (  
  `data` INT NOT NULL,  
  `pago` INT NOT NULL,  
  `curso` VARCHAR(7) NOT NULL,  
  `ALUNO_CPF` VARCHAR(11) NOT NULL,  
  PRIMARY KEY (`curso`, `ALUNO_CPF`),  
  INDEX `fk_MATRICULA_ALUNO1_idx` (`ALUNO_CPF` ASC) VISIBLE,  
  CONSTRAINT `fk_MATRICULA_CURSO1`
```

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FOREIGN KEY (`curso`)
REFERENCES `SAM`.`CURSO` (`sigla`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_MATRICULA_ALUNO1`
FOREIGN KEY (`ALUNO_CPF`)
REFERENCES `SAM`.`ALUNO` (`CPF`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

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-- Table `SAM`.`MODULO`
-----

CREATE TABLE IF NOT EXISTS `SAM`.`MODULO` (
  `sigla` VARCHAR(7) NOT NULL,
  `curso` VARCHAR(7) NOT NULL,
  `nome` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`sigla`),
  INDEX `fk_MODULO_CURSO1_idx` (`curso` ASC) VISIBLE,
  CONSTRAINT `fk_MODULO_CURSO1`
    FOREIGN KEY (`curso`)
      REFERENCES `SAM`.`CURSO` (`sigla`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

-----

-- Table `SAM`.`TOPICO`

```

```
-----  
  
CREATE TABLE IF NOT EXISTS `SAM`.`TOPICO` (  
  `sigla` VARCHAR(7) NOT NULL,  
  `nome` VARCHAR(45) NOT NULL,  
  `horas` INT NOT NULL,  
  `modulo` VARCHAR(7) NOT NULL,  
  PRIMARY KEY (`sigla`, `modulo`),  
  INDEX `fk_TOPICO_MODULO1_idx` (`modulo` ASC) VISIBLE,  
  CONSTRAINT `fk_TOPICO_MODULO1`  
    FOREIGN KEY (`modulo`)  
      REFERENCES `SAM`.`MODULO` (`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;
```