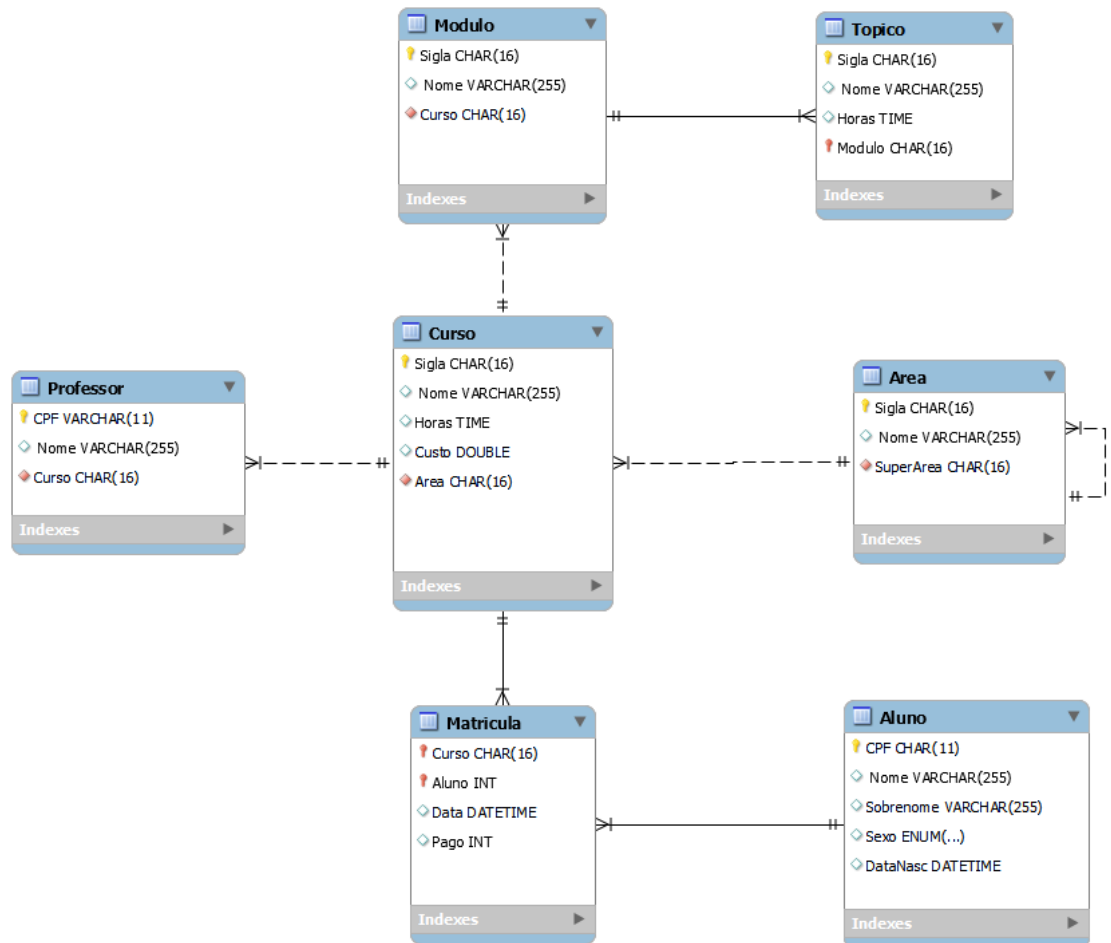


Banco de Dados

812839 – Vinícius Miranda de Araújo

Hands On 06

1. Diagrama



2. Script

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

```
CREATE TABLE IF NOT EXISTS `SAM`.`Area` (  
  `Sigla` CHAR(16) NOT NULL,  
  `Nome` VARCHAR(255) NULL,  
  `SuperArea` CHAR(16) NOT NULL,  
  PRIMARY KEY (`Sigla`),  
  INDEX `fk_Area_Area1_idx` (`SuperArea` ASC) VISIBLE,  
  CONSTRAINT `fk_Area_Area1`  
    FOREIGN KEY (`SuperArea`)  
    REFERENCES `SAM`.`Area` (`Sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
CREATE TABLE IF NOT EXISTS `SAM`.`Curso` (  
  `Sigla` CHAR(16) NOT NULL,  
  `Nome` VARCHAR(255) NULL,  
  `Horas` TIME NULL,  
  `Custo` DOUBLE NULL,  
  `Area` CHAR(16) NOT NULL,  
  PRIMARY KEY (`Sigla`),  
  INDEX `fk_Curso_Area_idx` (`Area` ASC) VISIBLE,
```

```

CONSTRAINT `fk_Curso_Area`
  FOREIGN KEY (`Area`)
  REFERENCES `SAM`.`Area` (`Sigla`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `SAM`.`Modulo` (
  `Sigla` CHAR(16) NOT NULL,
  `Nome` VARCHAR(255) NULL,
  `Curso` CHAR(16) 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;

CREATE TABLE IF NOT EXISTS `SAM`.`Topico` (
  `Sigla` CHAR(16) NOT NULL,
  `Nome` VARCHAR(255) NULL,
  `Horas` TIME NULL,
  `Modulo` CHAR(16) 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;

CREATE TABLE IF NOT EXISTS `SAM`.`Aluno` (
  `CPF` CHAR(11) NOT NULL,
  `Nome` VARCHAR(255) NULL,
  `Sobrenome` VARCHAR(255) NULL,
  `Sexo` ENUM('M', 'F', 'Outro') NULL,
  `DataNasc` DATETIME NULL,
  PRIMARY KEY (`CPF`))
ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `SAM`.`Professor` (
  `CPF` VARCHAR(11) NOT NULL,
  `Nome` VARCHAR(255) NULL,
  `Curso` CHAR(16) NOT NULL,
  PRIMARY KEY (`CPF`),
  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;
```

```
CREATE TABLE IF NOT EXISTS `SAM`.`Matricula` (  
  `Curso` CHAR(16) NOT NULL,  
  `Aluno` INT NOT NULL,  
  `Data` DATETIME NULL,  
  `Pago` INT NULL,  
  PRIMARY KEY (`Curso`, `Aluno`),  
  INDEX `fk_Curso_has_Aluno_Aluno1_idx` (`Aluno` ASC) VISIBLE,  
  INDEX `fk_Curso_has_Aluno_Curso1_idx` (`Curso` ASC) VISIBLE,  
  CONSTRAINT `fk_Curso_has_Aluno_Curso1`  
    FOREIGN KEY (`Curso`)  
    REFERENCES `SAM`.`Curso` (`Sigla`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Curso_has_Aluno_Aluno1`  
    FOREIGN KEY (`Aluno`)  
    REFERENCES `SAM`.`Aluno` (`CPF`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```