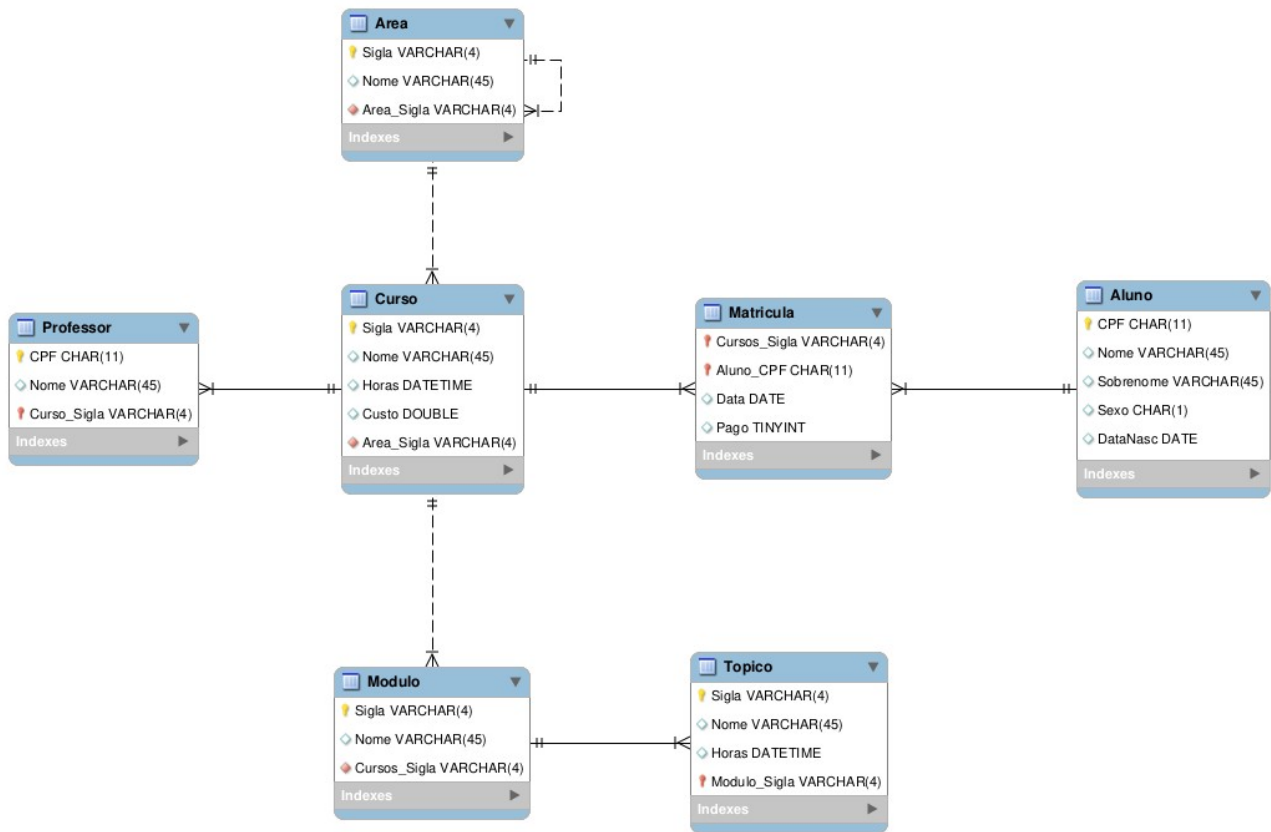


1.)



2.)

/*

GABRIEL MARTINS PEREIRA - 733875
CIÊNCIAS DA COMPUTAÇÃO

*/

CREATE SCHEMA SAM_DB;
USE SAM_DB;

CREATE TABLE CURSO (
 SIGLA VARCHAR(4) NOT NULL,
 NOME VARCHAR(45) NULL,
 HORAS DATETIME NULL,
 CUSTO DOUBLE NULL)
ENGINE = InnoDB;

ALTER TABLE CURSO ADD CONSTRAINT PK_CURSO PRIMARY KEY (SIGLA);
ALTER TABLE CURSO ADD CONSTRAINT FK_CURSO_AREA
FOREIGN KEY (AREA) REFERENCES AREA(SIGLA)
ON DELETE SET NULL ON UPDATE CASCADE;

CREATE TABLE AREA (
 SIGLA VARCHAR(4) NOT NULL,
 NOME VARCHAR(45) NULL)
ENGINE = InnoDB;

ALTER TABLE AREA ADD CONSTRAINT PK_AREA PRIMARY KEY(SIGLA);
ALTER TABLE AREA ADD CONSTRAINT FK_AREA_SUPERAREA
FOREIGN KEY (SUPERAREA) REFERENCES AREA(SIGLA)
ON DELETE SET NULL ON UPDATE CASCADE;

CREATE TABLE PROFESSOR (
 CPF VARCHAR(4) UNIQUE NOT NULL,
 NOME VARCHAR(45) NULL)
ENGINE = InnoDB;

ALTER TABLE PROFESSOR ADD CONSTRAINT FK_PROFESSOR_CURSO
FOREIGN KEY (CURSO) REFERENCES CURSO(SIGLA)
ON DELETE SET NULL ON UPDATE CASCADE;
ALTER TABLE PROFESSOR ADD CONSTRAINT PK_PROFESSOR PRIMARY
KEY(CPF);
ALTER TABLE PROFESSOR ADD CONSTRAINT PK_PROFESSOR_CURSO PRIMARY
KEY(CURSO);

CREATE TABLE MODULO (
 SIGLA VARCHAR(4) NOT NULL,
 NOME VARCHAR(45) NULL)
ENGINE = InnoDB;

ALTER TABLE MODULO ADD CONSTRAINT PK_MODULO PRIMARY KEY(SIGLA);
ALTER TABLE MODULO ADD CONSTRAINT FK_MODULO_CURSO
FOREIGN KEY (CURSO) REFERENCES CURSO(SIGLA)

ON DELETE SET NULL ON UPDATE CASCADE;

```
CREATE TABLE TOPICO (  
    SIGLA VARCHAR(4) NOT NULL,  
    NOME VARCHAR(45) NULL,  
    HORAS DATETIME NULL)  
ENGINE = InnoDB;
```

```
ALTER TABLE TOPICO ADD CONSTRAINT FK_TOPICO_MODULO  
FOREIGN KEY (MODULO) REFERENCES MODULO(SIGLA)  
ON DELETE SET NULL ON UPDATE CASCADE;  
ALTER TABLE TOPICO ADD CONSTRAINT PK_TOPICO PRIMARY KEY(SIGLA);  
ALTER TABLE TOPICO ADD CONSTRAINT PK_TOPICO_MODULO PRIMARY  
KEY(MODULO);
```

```
CREATE TABLE ALUNO (  
    CPF CHAR(11) UNIQUE NOT NULL,  
    NOME VARCHAR(45) NULL,  
    SOBRENOME VARCHAR(45) NULL,  
    SEXO CHAR(1) NULL,  
    DATANASC DATE NULL)  
ENGINE = InnoDB;
```

```
ALTER TABLE ALUNO ADD CONSTRAINT PK_ALUNO PRIMARY KEY(CPF);
```

```
CREATE TABLE MATRICULA (  
    DATAMAT DATE NULL,  
    PAGO TINYINT NULL)  
ENGINE = InnoDB;
```

```
ALTER TABLE MATRICULA ADD CONSTRAINT FK_MATRICULA_ALUNO  
FOREIGN KEY (ALUNO) REFERENCES ALUNO(CPF)  
ON DELETE SET NULL ON UPDATE CASCADE;  
ALTER TABLE MATRICULA ADD CONSTRAINT FK_MATRICULA_CURSO  
FOREIGN KEY (CURSO) REFERENCES CURSO(SIGLA)  
ON DELETE SET NULL ON UPDATE CASCADE;  
ALTER TABLE MATRICULA ADD CONSTRAINT PK_MATRICULA_ALUNO PRIMARY  
KEY(ALUNO);  
ALTER TABLE MATRICULA ADD CONSTRAINT PK_MATRICULA_CURSO PRIMARY  
KEY(CURSO);
```