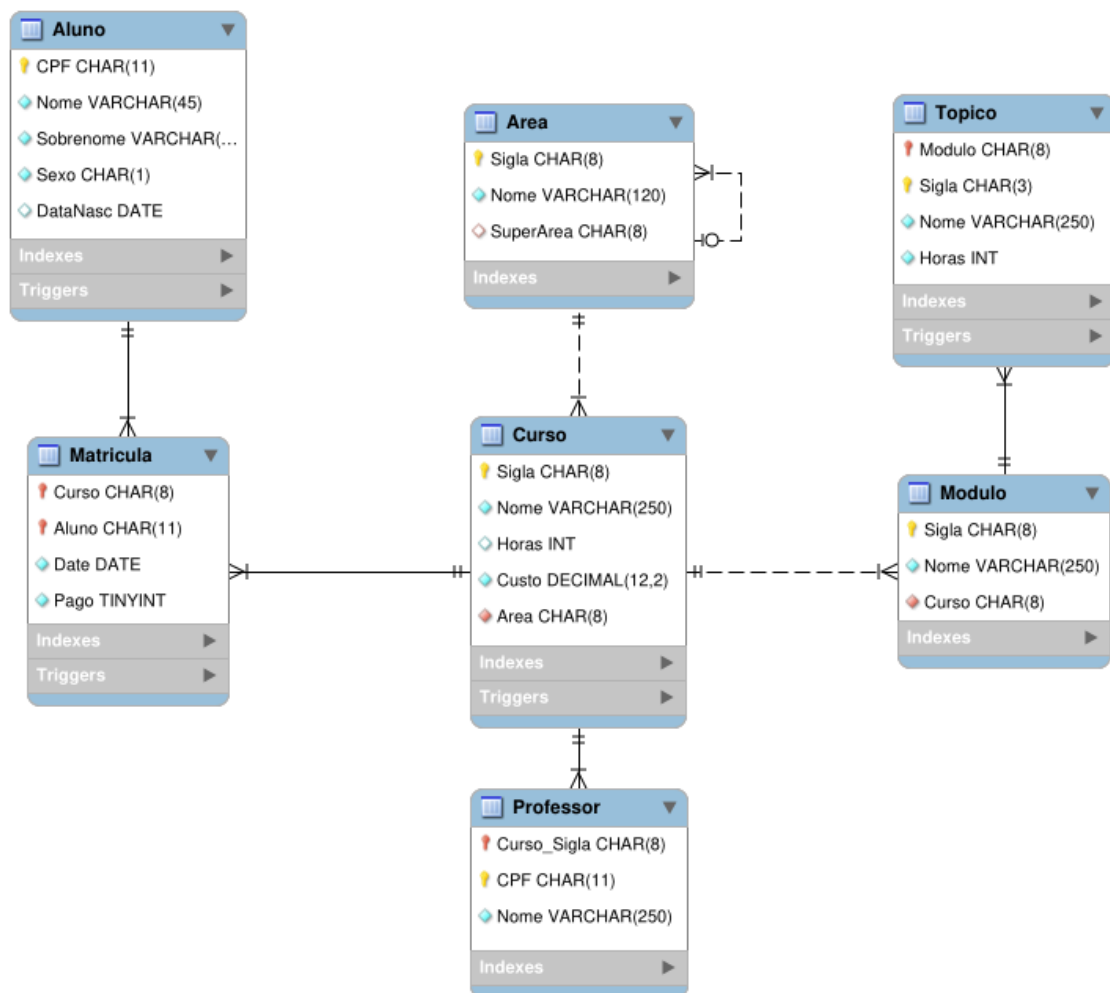# HO06

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Código SQL:

```
1  DROP SCHEMA IF EXISTS `SAM` ;
2
3  CREATE SCHEMA IF NOT EXISTS `SAM` ;
4  USE `SAM` ;
5
6  DROP TABLE IF EXISTS `SAM`.`Aluno` ;
7
8  CREATE TABLE IF NOT EXISTS `SAM`.`Aluno` (
9    `CPF` CHAR(11) NOT NULL ,
10   `Nome` VARCHAR(45) NOT NULL ,
11   `Sobrenome` VARCHAR(80) NOT NULL ,
12   `Sexo` CHAR(1) NOT NULL ,
13   `DataNasc` DATE NULL ,
14   PRIMARY KEY (`CPF`))
15 ENGINE = InnoDB;
16
17
18 DROP TABLE IF EXISTS `SAM`.`Area` ;
19
20 CREATE TABLE IF NOT EXISTS `SAM`.`Area` (
21   `Sigla` CHAR(8) NOT NULL ,
22   `Nome` VARCHAR(120) NOT NULL ,
23   `SuperArea` CHAR(8) NULL ,
24   PRIMARY KEY (`Sigla`),
25   INDEX `fk_Area_Area1_idx` (`SuperArea` ASC),
26   CONSTRAINT `fk_Area_Area1`
27     FOREIGN KEY (`SuperArea`)
28     REFERENCES `SAM`.`Area` (`Sigla`)
29     ON DELETE NO ACTION
30     ON UPDATE NO ACTION)
31 ENGINE = InnoDB;
32
33
34 DROP TABLE IF EXISTS `SAM`.`Curso` ;
35
36 CREATE TABLE IF NOT EXISTS `SAM`.`Curso` (
37   `Sigla` CHAR(8) NOT NULL ,
38   `Nome` VARCHAR(250) NOT NULL ,
39   `Horas` INT NULL ,
40   `Custo` DECIMAL(12,2) NOT NULL ,
41   `Area` CHAR(8) NOT NULL ,
42   PRIMARY KEY (`Sigla`),
43   INDEX `fk_Curso_Area1_idx` (`Area` ASC),
44   CONSTRAINT `fk_Curso_Area1`
45     FOREIGN KEY (`Area`)
46     REFERENCES `SAM`.`Area` (`Sigla`)
47     ON DELETE NO ACTION
48     ON UPDATE NO ACTION)
49 ENGINE = InnoDB;
50
51
52 DROP TABLE IF EXISTS `SAM`.`Modulo` ;
53
54 CREATE TABLE IF NOT EXISTS `SAM`.`Modulo` (
```

```sql
55    `Sigla` CHAR(8) NOT NULL,
56    `Nome` VARCHAR(250) NOT NULL,
57    `Curso` CHAR(8) NOT NULL,
58    PRIMARY KEY (`Sigla`),
59    INDEX `fk_Modulo_Curso1_idx` (`Curso` ASC),
60    CONSTRAINT `fk_Modulo_Curso1`
61      FOREIGN KEY (`Curso`)
62      REFERENCES `SAM`.`Curso` (`Sigla`)
63      ON DELETE NO ACTION
64      ON UPDATE NO ACTION)
65  ENGINE = InnoDB;
66
67
68  DROP TABLE IF EXISTS `SAM`.`Topico` ;
69
70  CREATE TABLE IF NOT EXISTS `SAM`.`Topico` (
71    `Modulo` CHAR(8) NOT NULL,
72    `Sigla` CHAR(3) NOT NULL,
73    `Nome` VARCHAR(250) NOT NULL,
74    `Horas` INT NOT NULL,
75    PRIMARY KEY (`Modulo`, `Sigla`),
76    INDEX `fk_Topico_Modulo1_idx` (`Modulo` ASC),
77    CONSTRAINT `fk_Topico_Modulo1`
78      FOREIGN KEY (`Modulo`)
79      REFERENCES `SAM`.`Modulo` (`Sigla`)
80      ON DELETE NO ACTION
81      ON UPDATE NO ACTION)
82  ENGINE = InnoDB;
83
84
85  DROP TABLE IF EXISTS `SAM`.`Matricula` ;
86
87  CREATE TABLE IF NOT EXISTS `SAM`.`Matricula` (
88    `Curso` CHAR(8) NOT NULL,
89    `Aluno` CHAR(11) NOT NULL,
90    `Date` DATE NOT NULL,
91    `Pago` TINYINT NOT NULL,
92    PRIMARY KEY (`Aluno`, `Curso`),
93    INDEX `fk_Matricula_Aluno1_idx` (`Aluno` ASC),
94    CONSTRAINT `fk_Matricula_Curso1`
95      FOREIGN KEY (`Curso`)
96      REFERENCES `SAM`.`Curso` (`Sigla`)
97      ON DELETE NO ACTION
98      ON UPDATE NO ACTION,
99    CONSTRAINT `fk_Matricula_Aluno1`
100     FOREIGN KEY (`Aluno`)
101     REFERENCES `SAM`.`Aluno` (`CPF`)
102     ON DELETE NO ACTION
103     ON UPDATE NO ACTION)
104 ENGINE = InnoDB;
105
106
107 DROP TABLE IF EXISTS `SAM`.`Professor` ;
108
109 CREATE TABLE IF NOT EXISTS `SAM`.`Professor` (
110   `Curso_Sigla` CHAR(8) NOT NULL,
```

```sql
111    `CPF` CHAR (11) NOT NULL ,
112    `Nome` VARCHAR (250) NOT NULL ,
113    PRIMARY KEY (`Curso_Sigla`, `CPF`),
114    INDEX `fk_Professor_Curso1_idx` (`Curso_Sigla` ASC),
115    CONSTRAINT `fk_Professor_Curso1`
116      FOREIGN KEY (`Curso_Sigla`)
117      REFERENCES `SAM`.`Curso` (`Sigla`)
118      ON DELETE NO ACTION
119      ON UPDATE NO ACTION)
120 ENGINE = InnoDB;
```