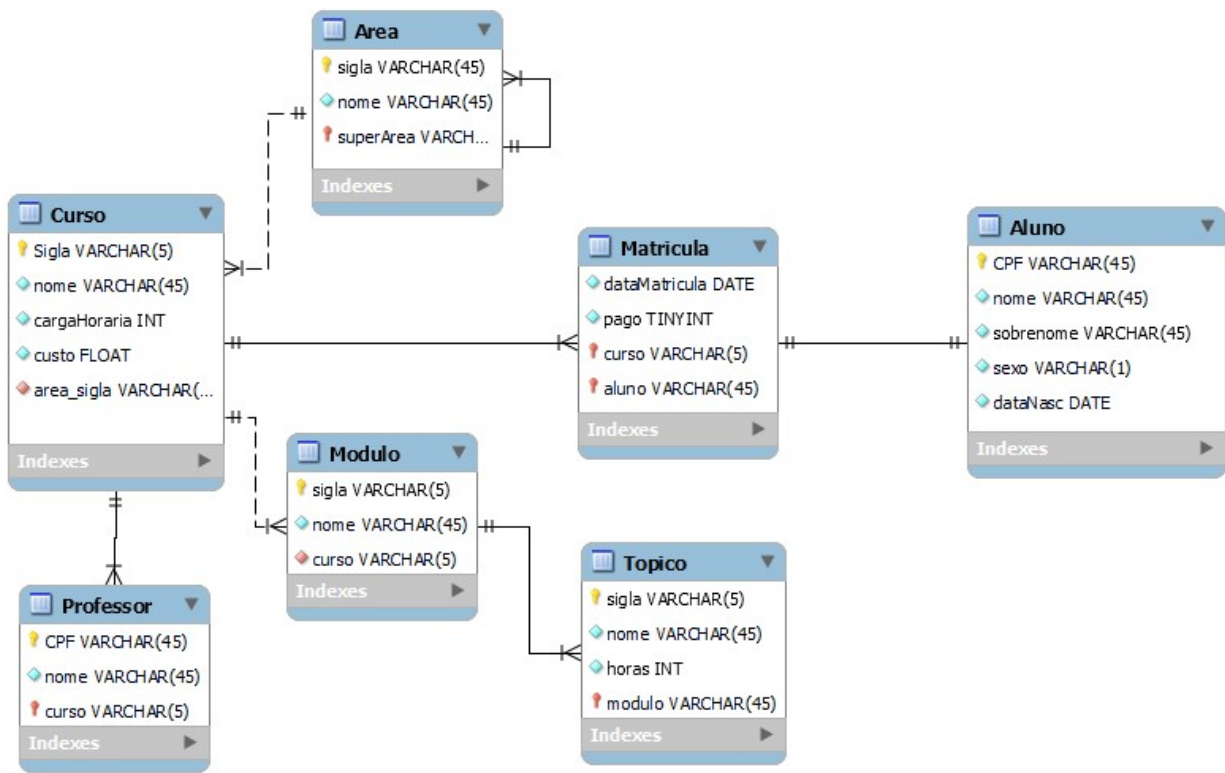# Hands On 6
Arthur Faria de Paula


```
1    -- MySQL Script generated by MySQL Workbench
2    -- Tue Sep 12 16:39:51 2023
3    -- Model: New Model    Version: 1.0
4    -- MySQL Workbench Forward Engineering
5
6    SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
7    SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
8    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';
9
10   -- -----------------------------------------------------
11   -- Schema mydb
12   -- -----------------------------------------------------
13   DROP SCHEMA IF EXISTS `mydb` ;
14
15   -- -----------------------------------------------------
16   -- Schema mydb
17   -- -----------------------------------------------------
18   CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;
19   SHOW WARNINGS;
20   USE `mydb` ;
21
22   -- -----------------------------------------------------
23   -- Table `mydb`.`Area`
24   -- -----------------------------------------------------
25   DROP TABLE IF EXISTS `mydb`.`Area` ;
26
27   SHOW WARNINGS;
28   CREATE TABLE IF NOT EXISTS `mydb`.`Area` (
29     `sigla` VARCHAR(45) NOT NULL,
30     `nome` VARCHAR(45) NOT NULL,
31     `superArea` VARCHAR(45) NOT NULL,
32     PRIMARY KEY (`sigla`, `superArea`),
33     CONSTRAINT `fk_area_area1`
34       FOREIGN KEY (`superArea`)
35       REFERENCES `mydb`.`Area` (`sigla`)
36       ON DELETE NO ACTION
37       ON UPDATE NO ACTION)
38   ENGINE = InnoDB;
39
40   SHOW WARNINGS;
41   CREATE INDEX `fk_area_area1_idx` ON `mydb`.`Area` (`superArea` ASC) VISIBLE;
42
43   SHOW WARNINGS;
44
```

```sql
44
45    -- -----------------------------------------------------
46    -- Table `mydb`.`Curso`
47    -- -----------------------------------------------------
48    DROP TABLE IF EXISTS `mydb`.`Curso` ;
49
50    SHOW WARNINGS;
51  ∨ CREATE TABLE IF NOT EXISTS `mydb`.`Curso` (
52      `Sigla` VARCHAR(5) NOT NULL,
53      `nome` VARCHAR(45) NOT NULL,
54      `cargaHoraria` INT NOT NULL,
55      `custo` FLOAT NOT NULL,
56      `area_sigla` VARCHAR(45) NOT NULL,
57      PRIMARY KEY (`Sigla`),
58  ∨   CONSTRAINT `fk_Curso_area`
59        FOREIGN KEY (`area_sigla`)
60        REFERENCES `mydb`.`Area` (`sigla`)
61        ON DELETE NO ACTION
62        ON UPDATE NO ACTION)
63    ENGINE = InnoDB;
64
65    SHOW WARNINGS;
66    CREATE INDEX `fk_Curso_area_idx` ON `mydb`.`Curso` (`area_sigla` ASC) VISIBLE;
67
68    SHOW WARNINGS;
69
70    -- -----------------------------------------------------
71    -- Table `mydb`.`Professor`
72    -- -----------------------------------------------------
73    DROP TABLE IF EXISTS `mydb`.`Professor` ;
74
75    SHOW WARNINGS;
76  ∨ CREATE TABLE IF NOT EXISTS `mydb`.`Professor` (
77      `CPF` VARCHAR(45) NOT NULL,
78      `nome` VARCHAR(45) NOT NULL,
79      `curso` VARCHAR(5) NOT NULL,
80      PRIMARY KEY (`CPF`, `curso`),
81  ∨   CONSTRAINT `fk_Professor_Curso1`
```

```sql
   CONSTRAINT `fk_Professor_Curso1`
     FOREIGN KEY (`curso`)
     REFERENCES `mydb`.`Curso` (`Sigla`)
     ON DELETE NO ACTION
     ON UPDATE NO ACTION)
ENGINE = InnoDB;

SHOW WARNINGS;
CREATE INDEX `fk_Professor_Curso1_idx` ON `mydb`.`Professor` (`curso` ASC) VISIBLE;

SHOW WARNINGS;

-- -----------------------------------------------------
-- Table `mydb`.`Aluno`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Aluno` ;

SHOW WARNINGS;
CREATE TABLE IF NOT EXISTS `mydb`.`Aluno` (
  `CPF` VARCHAR(45) 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;

SHOW WARNINGS;

-- -----------------------------------------------------
-- Table `mydb`.`Matricula`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Matricula` ;

SHOW WARNINGS;
CREATE TABLE IF NOT EXISTS `mydb`.`Matricula` (
  `dataMatricula` DATE NOT NULL,
  `pago` TINYINT NOT NULL,
  `curso` VARCHAR(5) NOT NULL,
  `aluno` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`curso`, `aluno`),
  CONSTRAINT `fk_Matricula_Curso1`
    FOREIGN KEY (`curso`)
```

```sql
123        FOREIGN KEY (`curso`)
124        REFERENCES `mydb`.`Curso` (`Sigla`)
125        ON DELETE NO ACTION
126        ON UPDATE NO ACTION,
127      CONSTRAINT `fk_Matricula_Aluno1`
128        FOREIGN KEY (`aluno`)
129        REFERENCES `mydb`.`Aluno` (`CPF`)
130        ON DELETE NO ACTION
131        ON UPDATE NO ACTION)
132    ENGINE = InnoDB;
133
134    SHOW WARNINGS;
135    CREATE INDEX `fk_Matricula_Curso1_idx` ON `mydb`.`Matricula` (`curso` ASC) VISIBLE;
136
137    SHOW WARNINGS;
138    CREATE INDEX `fk_Matricula_Aluno1_idx` ON `mydb`.`Matricula` (`aluno` ASC) VISIBLE;
139
140    SHOW WARNINGS;
141
142    -- -----------------------------------------------------
143    -- Table `mydb`.`Modulo`
144    -- -----------------------------------------------------
145    DROP TABLE IF EXISTS `mydb`.`Modulo` ;
146
147    SHOW WARNINGS;
148    CREATE TABLE IF NOT EXISTS `mydb`.`Modulo` (
149      `sigla` VARCHAR(5) NOT NULL,
150      `nome` VARCHAR(45) NOT NULL,
151      `curso` VARCHAR(5) NOT NULL,
152      PRIMARY KEY (`sigla`),
153      CONSTRAINT `fk_modulo_Curso1`
154        FOREIGN KEY (`curso`)
155        REFERENCES `mydb`.`Curso` (`Sigla`)
156        ON DELETE NO ACTION
157        ON UPDATE NO ACTION)
158    ENGINE = InnoDB;
159
160    SHOW WARNINGS;
161    CREATE INDEX `fk_modulo_Curso1_idx` ON `mydb`.`Modulo` (`curso` ASC) VISIBLE;
162
163    SHOW WARNINGS;
```

```sql
163    SHOW WARNINGS;
164
165    -- -----------------------------------------------------
166    -- Table `mydb`.`Topico`
167    -- -----------------------------------------------------
168    DROP TABLE IF EXISTS `mydb`.`Topico` ;
169
170    SHOW WARNINGS;
171    CREATE TABLE IF NOT EXISTS `mydb`.`Topico` (
172      `sigla` VARCHAR(5) NOT NULL,
173      `nome` VARCHAR(45) NOT NULL,
174      `horas` INT NOT NULL,
175      `modulo` VARCHAR(45) NOT NULL,
176      PRIMARY KEY (`sigla`, `modulo`),
177      CONSTRAINT `fk_topico_modulo1`
178        FOREIGN KEY (`modulo`)
179        REFERENCES `mydb`.`Modulo` (`sigla`)
180        ON DELETE NO ACTION
181        ON UPDATE NO ACTION)
182    ENGINE = InnoDB;
183
184    SHOW WARNINGS;
185    CREATE INDEX `fk_topico_modulo1_idx` ON `mydb`.`Topico` (`modulo` ASC) VISIBLE;
186
187    SHOW WARNINGS;
188
189    SET SQL_MODE=@OLD_SQL_MODE;
190    SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
191    SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
192
```