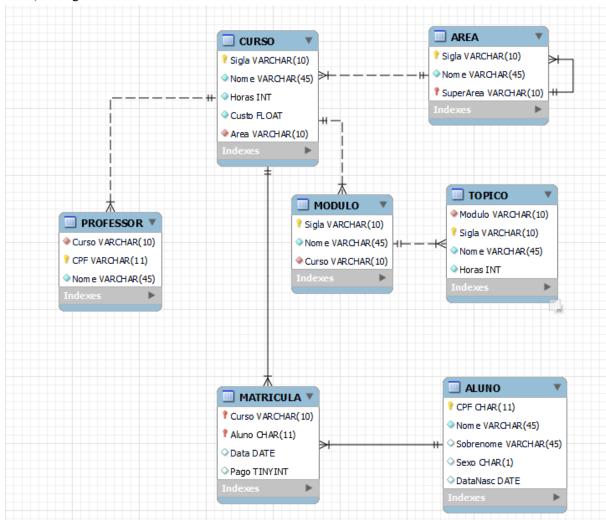
Hands on 6: SQL (DDL)

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1) Diagrama:



2) Consultas SQL:

- -- MySQL Script generated by MySQL Workbench
- -- Mon Mar 18 18:34:30 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 mydb
CREATE SCHEMA IF NOT EXISTS `mydb`; USE `mydb`;
Table `ALUNO`
DROP TABLE IF EXISTS 'ALUNO';
CREATE TABLE IF NOT EXISTS 'ALUNO' ('CPF' CHAR(11) NOT NULL, 'Nome' VARCHAR(45) NOT NULL, 'Sobrenome' VARCHAR(45) NULL, 'Sexo' CHAR(1) NULL, 'DataNasc' DATE NULL, PRIMARY KEY ('CPF')) ENGINE = InnoDB;
DROP TABLE IF EXISTS 'AREA';
CREATE TABLE IF NOT EXISTS 'AREA' (
Table `CURSO`

DROP TABLE IF EXISTS 'CURSO';

```
'Sigla' VARCHAR(10) NOT NULL,
 'Nome' VARCHAR(45) NOT NULL,
 'Horas' INT NOT NULL,
 'Custo' FLOAT NOT NULL,
 'Area' VARCHAR(10) NOT NULL,
 PRIMARY KEY ('Sigla'),
 CONSTRAINT 'fk CURSO AREA'
 FOREIGN KEY ('Area')
 REFERENCES 'AREA' ('Sigla')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE INDEX 'fk CURSO AREA idx' ON 'CURSO' ('Area' ASC) VISIBLE;
-- Table `MATRICULA`
DROP TABLE IF EXISTS 'MATRICULA';
CREATE TABLE IF NOT EXISTS 'MATRICULA' (
 'Curso' VARCHAR(10) NOT NULL,
 'Aluno' CHAR(11) NOT NULL,
 'Data' DATE NULL,
 'Pago' TINYINT NULL,
 PRIMARY KEY ('Curso', 'Aluno'),
 CONSTRAINT 'fk CURSO has ALUNO CURSO1'
 FOREIGN KEY ('Curso')
 REFERENCES 'CURSO' ('Sigla')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
 CONSTRAINT 'fk CURSO has ALUNO ALUNO1'
 FOREIGN KEY ('Aluno')
 REFERENCES 'ALUNO' ('CPF')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE INDEX 'fk CURSO has ALUNO ALUNO1 idx' ON 'MATRICULA' ('Aluno' ASC)
VISIBLE;
CREATE INDEX 'fk CURSO has ALUNO CURSO1 idx' ON 'MATRICULA' ('Curso' ASC)
```

CREATE TABLE IF NOT EXISTS 'CURSO' (

VISIBLE;

```
-- Table 'MODULO'
-- ------
DROP TABLE IF EXISTS 'MODULO';
CREATE TABLE IF NOT EXISTS 'MODULO' (
 'Sigla' VARCHAR(10) NOT NULL,
'Nome' VARCHAR(45) NOT NULL,
'Curso' VARCHAR(10) NOT NULL,
PRIMARY KEY ('Sigla'),
CONSTRAINT 'fk MODULO CURSO1'
 FOREIGN KEY ('Curso')
 REFERENCES 'CURSO' ('Sigla')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE INDEX 'fk MODULO CURSO1 idx' ON 'MODULO' ('Curso' ASC) VISIBLE;
-- Table 'PROFESSOR'
DROP TABLE IF EXISTS 'PROFESSOR';
CREATE TABLE IF NOT EXISTS 'PROFESSOR' (
'Curso' VARCHAR(10) NOT NULL,
'CPF' VARCHAR(11) NOT NULL,
'Nome' VARCHAR(45) NOT NULL,
PRIMARY KEY ('CPF'),
CONSTRAINT 'fk PROFESSOR CURSO1'
 FOREIGN KEY ('Curso')
 REFERENCES 'CURSO' ('Sigla')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE INDEX 'fk PROFESSOR CURSO1 idx' ON 'PROFESSOR' ('Curso' ASC) VISIBLE;
-- Table 'TOPICO'
-- -----
DROP TABLE IF EXISTS 'TOPICO';
CREATE TABLE IF NOT EXISTS 'TOPICO' (
'Modulo' VARCHAR(10) NOT NULL,
'Sigla' VARCHAR(10) NOT NULL,
```

'Nome' VARCHAR(45) NOT NULL,
'Horas' INT NOT NULL,
PRIMARY KEY ('Sigla'),
CONSTRAINT 'fk_TOPICO_MODULO1'
FOREIGN KEY ('Modulo')
REFERENCES 'MODULO' ('Sigla')
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

CREATE INDEX 'fk TOPICO MODULO1 idx' ON 'TOPICO' ('Modulo' ASC) VISIBLE;

SET SQL_MODE=@OLD_SQL_MODE; SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS; SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;