CREATE TABLE TbCidade

(CdCidade INTEGER NOT NULL,

NmCidade VARCHAR (50) NOT NULL,

PRIMARY KEY (CdCidade)

);

CREATE TABLE TbProfessor(

CdProfessor INTEGER NOT NULL,

NmProfessor VARCHAR (100) NOT NULL,

Sexo CHAR,

CdCidade INTEGER NOT NULL,

PRIMARY KEY (CdProfessor),

FOREIGN KEY (CdCidade) REFERENCES TbCidade(CdCidade)

);

CREATE TABLE TbDisciplina (

CdDisciplina INTEGER NOT NULL,

NmDisciplina VARCHAR (100) NOT NULL,

CargaHoraria INTEGER,

CdProfessor INTEGER NOT NULL,

PRIMARY KEY (CdDisciplina),

FOREIGN KEY (CdProfessor) REFERENCES TbProfessor(CdProfessor)

);

CREATE TABLE TbAluno(

CdAluno INTEGER NOT NULL,

NmAluno VARCHAR (100) NOT NULL,

Sexo CHAR,

CdCidade INTEGER NOT NULL,

PRIMARY KEY (CdAluno),

FOREIGN KEY (CdCidade) REFERENCES TbCidade(CdCidade)

);

CREATE TABLE TbNota (

CdAluno INTEGER NOT NULL,

CdDisciplina INTEGER NOT NULL,

Nota NUMERIC (10,2),

PRIMARY KEY (CdAluno, CdDisciplina),

FOREIGN KEY (CdAluno) REFERENCES TbAluno(CdAluno),

FOREIGN KEY (CdDisciplina) REFERENCES TbDisciplina(CdDisciplina)

);

INSERT INTO TbCidade (CdCidade, NmCidade) VALUES (1, 'Ipatinga');

INSERT INTO TbCidade (CdCidade, NmCidade) VALUES (2, 'Cel. Fabriciano'), (3, 'Timóteo');

INSERT INTO TbCidade VALUES (4, 'Santana do Paraíso');

INSERT INTO TbProfessor VALUES (1, 'João Batista', 'M', 3), (2, 'Marcelo Balbino', 'M', 3), (3, 'Guilherme', 'M', 3), (4, 'Claudio Portes', 'M', 1);

INSERT INTO TbDisciplina VALUES (1, 'Projeto de Software', 40, 2), (2, 'Empreendedorismo', 40, 1), (3, 'Linguagem de Programação', 100, 4), (4, 'Banco de Dados', 60, 2), (5, 'Eletricidade e Eletrônica', 80, 3);

INSERT INTO TbAluno VALUES (1, 'José', 'M', 2), (2, 'Maria', 'F', 1), (3, 'Ricardo', 'M', 1);

INSERT INTO TbNota VALUES (1, 1, 50), (1, 2, 75), (1, 3, 80), (1, 4, 55), (2, 1, 90), (2, 2, 95), (2, 3, 82), (2, 4, 88), (3, 1, 40), (3, 2, 35), (3, 3, 70), (3, 4, 70);

SELECT **distinct** NmProfessor FROM TbProfessor P, TbDisciplina D WHERE P.CdProfessor = D.CdProfessor ORDER BY NmProfessor;

SELECT **Count(\*) as Qtd** FROM TbAluno WHERE CdCidade = 1;

SELECT **Count(\*) as Qtd** FROM TbProfessor, TbDisciplina WHERE TbDisciplina.CdProfessor = TbProfessor.CdProfessor and NmProfessor = "Guilherme";

SELECT **SUM(nota)** FROM TbNota WHERE CdAluno = 1;

SELECT **AVG(Nota) as Media** FROM TbAluno A, TbNota N WHERE A.CdAluno = N.CdAluno AND NmAluno = "Maria";

SELECT **AVG(Nota) as Media** FROM TbProfessor P, TbNota N, TbDisciplina D WHERE P.CdProfessor = D.CdProfessor and D.CdDisciplina = N.CdDisciplina and NmProfessor = "Marcelo Balbino";

SELECT **MAX(Nota) as Maior** FROM TbDisciplina D, TbNota N WHERE D.CdDisciplina = N.CdDisciplina and NmDisciplina = 'Banco de Dados';

SELECT **MIN(Nota) as Menor** FROM TbAluno, TbNota WHERE TbAluno.CdAluno = TbNota.CdAluno AND NmAluno = 'José';

SELECT NmCidade, **Count(\*) as Qtd** FROM TbCidade C, TbAluno A WHERE A.CdCidade = C.CdCidade **GROUP BY C.CdCidade**;

SELECT NmAluno, **AVG(Nota) as Media, SUM(Nota)** FROM TbAluno A, TbNota N WHERE A.CdAluno = N.CdAluno **GROUP BY** NmAluno;