CREATE TABLE Sala (

idSala int PRIMARY KEY,

IdentificacaoSala varchar(50)

)go

CREATE TABLE Sensor (

idSensor int PRIMARY KEY,

identificacaoSensor varchar(50),

fkSala int,

FOREIGN KEY(fkSala) REFERENCES Sala (idSala)

)go

CREATE TABLE Usuario (

idUsuario int PRIMARY KEY identity(100,100),

Email varchar(50),

Nome varchar(50),

Senha varchar(50),

Telefone varchar(50),

fkSala int,

FOREIGN KEY(fkSala) REFERENCES Sala (idSala)

)go

CREATE TABLE Dados (

idDados int PRIMARY KEY identity,

datahora Smalldatetime default 'YYYY-MM-DD hh:mm:ss',

temperatura varchar(50),

umidade varchar(50),

fkSensor int,

FOREIGN KEY(fkSensor) REFERENCES Sensor (idSensor),

)go

insert into Sala values

(1,'salaA'),

(2,'salaB')go

-- select \* from Sala;

insert into Sensor values

(1,'sensorA',1),

(2,'sensorB',1),

(3,'sensorA',2),

(4,'sensorB',2)go

-- select \* from Sensor;

insert into Usuario values

('pedro.silva@gmail.com', 'Pedro Silva', 'pedro123','9999-0000',1),

('rayssa.morais@gmail.com', 'Rayssa Morais','8888-1111', 'rayssa123',1),

('roberto.siqueira@gmail.com', 'Roberto Siqueira','7777-2222', 'roberto123',2)go

-- select \* from Usuario;

insert into Dados values

(1,'2019-07-04 17:50',20,44,1),

(2,'2019-07-04 17:50',21,43,2),

(3,'2019-07-03 17:40',21,45,3),

(4,'2019-07-03 17:40',19,43,4)go

-- select \* from Dados;

-- Exibir os dados de um determinada sala(informar o nome do sala na consulta) e os dados de seus respectivos usuarios.

select a.\* , identificacaoSala

from Usuario as a ,Sala

where idSala = fkSala and identificacaoSala = 'salaA';

select a.\* , identificacaoSala

from Usuario as a ,Sala

where idSala = fkSala and identificacaoSala = 'salaB';

-- exibir os dados da tabela dados(mostrando o sensor e a sala da temperatura e umidade)

select d.idDados, d.datahora, d.temperatura, d.umidade , s.identificacaoSensor as [SENSOR],sa.identificacaoSala as [SALA]

from Dados as d ,Sensor as s, Sala as sa

where idSensor = fkSensor and idSala = fkSala;

select \* from Dados

join Sensor on fkSensor = idSensor

join Sala on fkSala = idSala;

select d.idDados, d.datahora, d.temperatura, d.umidade , s.identificacaoSensor as [SENSOR],sa.identificacaoSala as [SALA]

from Dados as d

inner join Sensor as s on fkSensor = idSensor

inner join Sala as sa on fkSala = idSala

/\*

drop table Usuario;

drop table Dados;

drop table Sensor;

drop table Sala;

\*/