Query 1:

É suposto encontrar o paciente com o maior NUMERO DE readings acima de 200, nos ultimos 90

5 readings de pacientes diferentes1º abaixo de 200, antes dos 90, 2ºacima de 200, antes dos 90, 3ºabaixo dos 200, depois dos 90, 4ºe5ºacima de 200, depois dos 90. Tabelas wears, period, device, sensor, Reading.

Resultado esperado: Barbara e Sophia.

Query 2:

4 pacientes. 1ºteve o device Medtronic há+q1ano, 2ºTeve um device não medtronic este ano, 3º e 4º usaram um medtronic este ano. Tabelas Request, Study e Device.

Resultado esperado: Mark e Barbara, ou só Barbara?

Trigger 1:

O doutor que faz o request n pode fazer o estudo.

INSERT INTO Study VALUES('00', 'MRI scan', '2017-09-30', '23', '246d3', 'IPOZ');/\*same doc’s=error\*/

INSERT INTO Study VALUES(‘00’, MRI scan, ‘2017-09-30’, ‘13’, ‘246d3’, ‘IPOZ’);/\*diff doc’s=ok\*/

Trigger 2:

Prevenir alguem de associar um device a um paciente, em periodos que se tocam.

Criar 2 períodos que se tocam, e 1 que não se toca com nenhum deles. 1ºinserir num paciente, que está a usar um device num período não overlapped, um período.

INSERT INTO Wears VALUES('2017-10-16 18:48:39', '2017-10-18 18:58:39', '65254', '3in35', 'Medtronic'); /\*Overlapping periods=error\*/

INSERT INTO Wears VALUES('2016-10-12 18:28:39', '2016-10-12 19:58:39', '65254', '3in35', 'Medtronic'); /\*good periods=ok\*/

Function:

INSERT INTO Patient

VALUES ('35254', 'Bob', '1992-03-12', 'Rua das Flores'),

('33254', 'John', '1991-03-12', 'Pink Street'),

('65254', 'Mark', '1983-03-12', 'Rua das Flores'),

('73254', 'Barbara', '1972-03-12', 'Rua das Flores'),

('37254', 'Sophia', '1996-03-28', 'Smith street');

INSERT INTO Doctor

VALUES ('35254', '23'),

('65254', '13'),

('33254', '68'),

('73254', '32'),

('37254', '98');

INSERT INTO Device

VALUES ('3in35', 'Medtronic', 'XPS'),

('3in36', 'Medtronic', 'XPS'),

('246d3', 'IPOZ', 'KK21');

INSERT INTO Sensor

VALUES ('3in35', 'Medtronic', 'LDL cholesterol in mg/dL'),

('3in36', 'Medtronic', 'LDL cholesterol in mg/dL'),

('246d3', 'IPOZ', 'blood pressure');

INSERT INTO Reading

VALUES ('246d3', 'IPOZ', '2017-10-19 20:58:39', '210'),

('3in36', 'Medtronic', '2017-10-15 19:58:39', '300'),

('3in36', 'Medtronic', '2017-10-15 20:58:39', '290'),

('3in36', 'Medtronic', '2017-10-19 19:58:39', '310'),

('3in36', 'Medtronic', '2017-10-19 20:58:39', '280'),

('3in35', 'Medtronic', '2017-10-16 16:58:39', '230'),

('3in35', 'Medtronic', '2017-10-16 15:58:39', '180'),

('3in35', 'Medtronic', '2017-10-16 14:58:39', '190'),

('3in35', 'Medtronic', '2016-10-12 18:48:39', '300'),

('3in35', 'Medtronic', '2016-10-12 18:38:39', '400'),

('3in35', 'Medtronic', '2016-10-12 18:30:39', '330');

INSERT INTO Period

VALUES('2016-10-12 18:28:39', '2016-10-12 19:58:39'),

('2017-10-15 18:58:39', '2017-10-16 18:58:39'),

('2017-10-16 18:48:39', '2017-10-18 18:58:39');

('2017-10-19 18:58:39', '2017-10-20 18:58:39'),

('2017-11-01 18:58:39', '2017-11-02 18:58:39');

INSERT INTO Wears

VALUES('2016-10-12 18:28:39', '2016-10-12 19:58:39', '35254', '3in35', 'Medtronic'),

('2016-10-12 18:28:39', '2016-10-12 19:58:39', '33254', '3in36', 'Medtronic'),

('2017-10-15 18:58:39', '2017-10-16 18:58:39', '65254', '3in35', 'Medtronic'),

('2017-10-15 18:58:39', '2017-10-16 18:58:39', '73254', '3in36', 'Medtronic'),

('2017-10-19 18:58:39', '2017-10-20 18:58:39', '37254', '3in36', 'Medtronic'),

('2017-10-19 18:58:39', '2017-10-20 18:58:39', '33254', '246d3', 'IPOZ'),

('2017-11-01 18:58:39', '2017-11-02 18:58:39', '65254', '3in36', 'Medtronic');

INSERT INTO Request

VALUES('123', '35254', '23', '2016-01-10'),

('12', '33254', '68', '2017-10-05'),

('44', '65254', '13','2017-05-30'),

('33', '73254', '32', '2017-03-20'),

('55', '73254', '32', '2017-05-03'),

('01', '35254', '23', '2017-09-29');

INSERT INTO Study

VALUES('123', 'Cholesterol exam', '2016-02-02', '32', '3in35', 'Medtronic'),

('12', 'MRI scan ', '2017-10-25', '68', '246d3', 'IPOZ'),

('44', 'Cholesterol exam', '2017-06-25', '98', '3in35', 'Medtronic'),

('33', 'Cholesterol exam', '2017-04-25', '32', '3in36', 'Medtronic'),

('55', 'Cholesterol exam', '2017-06-04', '98', '3in35', 'Medtronic');

INSERT INTO Series

VALUES('O8', 'cholesterolexam123', '/cholesterolexam123', '123', 'Cholesterol exam');

INSERT INTO Element

VALUES('O8', '1');

INSERT INTO Region

VALUES('1', 'O8', '23', '32', '98', '149'),

('1', 'O8', '45', '23', '138', '89');