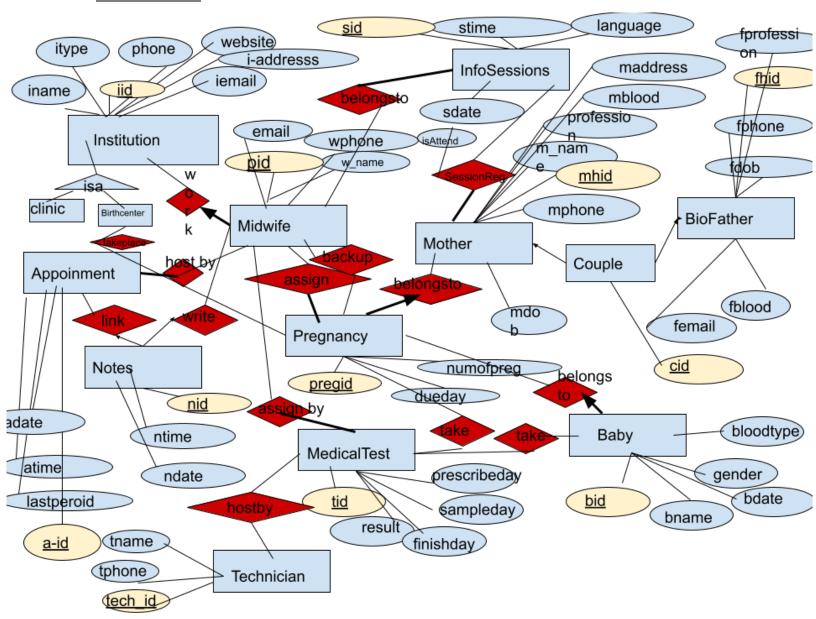
Relational Model



Pending constraints

- Cannot show if a pregnancy is homebirth
- Cannot force couple overlap
- Cannot show if a couple is interested the infosession
- Cannot prevent overlap of birthcenter and clinic
- Cannot force the medicaltest only for one mother or one baby at a time
- Cannot force midwife that host the infosession be the same as the one holding appoinment

SQL Queries

5

Α

SELECT adate, atime, m.mhid, mname, mphone FROM Midwife w, Appointment a, Pregnancy p, mother m

WHERE w.pid=p.ppid AND p.mhid=m.mhid AND a.pid=w.pid AND a.pregid=p.pregid AND w.wname='Marion Girard' AND adate>='2022-03-21' AND adate<='2022-03-25';

В

SELECT result, finishday FROM MedicalTest t, Pregnancy p, Mother m

WHERE p.mhid=m.mhid and t.pregid=p.pregid AND mname='victoria Gutierrez' AND numofpreg=2 AND mtype='blood iron';

C

WITH a as(SELECT *,

CASE

WHEN EXPECTDUE IS NOT NULL THEN EXPECTDUE

WHEN EXPECTDUE IS NULL THEN INITDUE

END AS DUEDAY

FROM PREGNANCY)

SELECT MAX(iname), COUNT(pregid) numofpreg FROM midwife w,institution i,a WHERE a.dueday>='2022-07-01' AND a.dueday<='2022-07-31' AND w.pid=a.ppid AND w.iid=i.iid GROUP BY iname;

```
th2 => wITH a as(SELECT *, CASE

CASE

th2 (cont.) => db2 (cont.) => WHEN EXPECTDUE IS NOT NULL THEN EXPECTDUE

tb2 (cont.) => wHEN EXPECTDUE IS NULL THEN INITDUE

tb2 (cont.) => wHEN EXPECTDUE IS NULL THEN INITDUE

tb2 (cont.) => db2 (cont.) => FROM PREGNANCY)

tb2 (cont.) => SELECT MAX(iname), COUNT(pregid) numofpreg FROM midwife w,institution i,a wHERE a.dueday>='2022-07-01' AND a.dueday<='2022-07-31' AND w.pid=a.ppid AND w.iid=i.iid GROUP BY iname;

tac-Saint-Louis

1 record(s) selected.
```

D

SELECT DISTINCT m.mhid,mname,mphone FROM mother m, midwife w,baby b,institution i,pregnancy p

WHERE m.mhid=p.mhid AND b.pregid=p.pregid AND w.pid=p.ppid AND i.iid =w.iid AND iname='Lac-Saint-Louis' and bdate is NULL;

Ε

WITH b as(

WITH a as(SELECT *,

CASE

WHEN bdate is NULL THEN 'NOT BORN'

WHEN bdate is NOT NULL THEN 'BORN'

END AS isBorn

FROM Baby)

SELECT MAX(PREGID) pregid, MAX(a.isBorn) isBorn FROM a GROUP BY PREGID HAVING COUNT(PREGID)>1)

SELECT m.mhid,mname FROM mother m,pregnancy p,b WHERE m.mhid=p.mhid AND p.pregid =b.pregid;

Midwife Information

6a

CREATE VIEW midwifeinfo AS

SELECT pid,wname,wphone,wemail,iname,iaddress FROM midwife w, institution i where w.iid=i.iid;

b

```
db2 => CREATE VIEW midwifeinfo AS
SELECT pid,wname,wphone,wemail,iname,iaddress FROM midwife w, institution i where w.iid=i.iid;
db2 (cont.) => DB20000I The SQL command completed successfully.
```

```
SELECT * FROM midwifeinfo limit 5;
```

```
db2 => SELECT * FROM midwifeinfo limit 5;
PTD
          WNAME
                                                                                                                                                WPHONE
     WEMAIL
                                                                                      INAME
                                                                  IADDRESS
p100001 Hannah Johnson
151 wgosselin@gmail.com
                                                                                                                                                3045451
                                                                                     Clinic Anderson
                                                                  1383 rue Ellice Joliette, Quebec(QC), J6E 3E8
p100002 Abigail Miller
734 thomas.lalonde@hotmail.com
                                                                                                                                                6712190
                                                                  Clinic Brown
1884 rue Garneau,Quebec, Quebec(QC), G1V 3V5
p100004 Emilia Davis
797 isabelle25@bernier.net
                                                                                                                                                7193725
                                                                  Clinic Smith
610 rue de la Gauchetière,Montreal, Quebec(QC), H3B 2M3
p100003 Marion Girard
425 renee24@gmail.com
                                                                                                                                                9193489
                                                                  Peter Birth Center
4741 Boulevard Laflèche,Riviere Du Loup, Quebec(QC), G5R 3E9
p100005 Violet Pelletier
791 timothee50@gmail.com
                                                                                                                                                4765316
                                                                  Mary Birth Center
2828 rue Saint-Édouard,Trois Rivieres, Quebec(QC), G9A 5S8
  5 record(s) selected.
```

D

SELECT * FROM midwifeinfo WHERE iname='Lac-Saint-Louis' limit 5;

```
db2 => SELECT * FROM midwifeinfo WHERE iname='Lac-Saint-Louis' limit 5;

PID WNAME WEMAIL INAME

IADDRESS

IADDRESS

IADDRESS

IADDRESS

4703351

Eac-Saint-Louis

3345 rue des Églises Est, East Hereford, Quebec(QC), JOB 1S0

P100012 Audrey Jones
616 vparent@hotmail.com

2 record(s) selected.
```

Ε

Insert into midwifeinfo values('p1000013','first last','1234567890','firstlast@gmail.com',
'Lac-Saint-Louis', 'some address');

```
db2 => Insert into midwifeinfo values('p1000013','first last','1234567890','firstlast@gmail.com', 'Lac-Saint-Louis', 'some address');
DB21034E The command was processed as an SQL statement because it was not a
valid Command Line Processor command. During SQL processing it returned:
SQL0150N The target fullselect, view, typed table, materialized query table,
range-clustered table, or staging table in the INSERT, DELETE, UPDATE, MERGE,
or TRUNCATE statement is a target for which the requested operation is not
permitted. SQLSTATE=42807
```

We can only insert to the tables where view are built on.

Check Constraints

ALTER TABLE MedicalTest

ADD CONSTRAINT date_check

CHECK(sampleday>presday);

```
db2 => ALTER TABLE MedicalTest
ADD CONSTRAINT date_check
CHECK(sampleday>presday);
db2 (cont.) => db2 (cont.) => DB20000I The SQL command completed successfully.
```

INSERT INTO MEDICALTEST VALUES('t100006','first last','1234567890','2022-03-08', '2022-03-06', '2022-03-07', 'p100010','pg100001', NULL, NULL);

```
db2 => INSERT INTO MEDICALTEST VALUES(`t100006`, 'first last','123456'890','2022-03-08', '2022-03-06', '2022-03-07', 'p100010','pg100001',NULL,NULL);
DB21034E The command was processed as an SQL statement because it was not a
valid Command Line Processor command. During SQL processing it returned:
SQL054SN The requested operation is not allowed because a row does not
satisfy the check constraint "JXIA016.MEDICALTEST.DATE_CHECK". SQLSTATE=23513
```