

COMP 421: Project 3

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Mar 15, 2022

Relational Model

- Parent(person_id, phone_num, name, blood_type, date_of_birth, profession, email, quebec_health_id, address)
- Midwife(practitioner_id, phone_num, name, email, institution_email)
institution_email references HC_Institution
- Lab_Tech(person_id, phone_num, name)
- Couple(couple_id, num_pregnancy, mother_id)
mother_id references Parent (via mother)
- Father(couple_id, num_pregnancy, person_id)
person_id references Parent, couple_id, num_pregnancy references Couple
- Info_Session(session_id, session_date, session_time, language, host_id)
host_id references Midwife
- Invitation(couple_id, num_pregnancy, session_id, did_register, did_attend)
couple_id, num_pregnancy references Couple, session_id references Info_Session
- Pregnancy(preg_id, birth_time_frame, due_date_period, due_date_ultrasound, due_date_final, is_home_birth, couple_id, num_pregnancy, primary_mw_id, secondary_mw_id, birthing_center_email)
couple_id, num_pregnancy references Couple, primary_mw_id references Midwife, secondary_mw_id references Midwife, birthing_center_email References Birthing_Center
- Baby(baby_id, blood_type, name, birth_date, birth_time, sex, preg_id)
preg_id references Pregnancy
- Appointment(appt_id, appt_date, appt_time, preg_id, mw_id)
preg_id references Pregnancy, mw_id references Midwife
- Appt_Note(note_id, timestamp, observations, appt_id)
appt_id references Appointment

- Medical_Test(test_id, appt_id, test_type, prescription_date, sample_date, lab_work_date, test_result, lt_id, mother_id, baby_id)
appt_id references Appointment, lt_id references Lab_Tech, mother_id references Person, baby_id references Baby
- HC_Institution(email, address, website, name, phone_num)
- Birthing_Center(email, address, website, name, phone_num)
- Community_Clinic(email, address, website, name, phone_num)

Execution Flow

ai:

```
db2 => SELECT * FROM Midwife WHERE practitioner_id = 6;

PRACTITIONER_ID  PHONE_NUM      NAME                                EMAIL                                INSTITUTION_EMAIL
-----
0 record(s) selected.
```

aii:

```
dshoha@winter2022-comp421[04:01:10]:~/comp421/proj-3$ java simpleJDBC
Please enter your practitioner id or press [E] to exit:
6
No midwife found.
Please enter your practitioner id or press [E] to exit:
```

bi:

```
db2 => SELECT DISTINCT p.preg_id, c.couple_id, pa.person_id FROM Pregnancy p JOIN Couple c ON p.couple_id = c.couple_id JOIN Parent pa ON c.mother_id = pa.person_id WHERE pa.person_id = 4;

PREG_ID  COUPLE_ID  PERSON_ID
-----
5         5         4
6         5         4
2 record(s) selected.
```

bii:

```
dshoha@winter2022-comp421[04:17:42]:~/comp421/proj-3$ java simpleJDBC
Please enter your practitioner id or press [E] to exit:
2
```

biii:

```
Please enter the date for the appointment list (YYYY-MM-DD) or press [E] to exit:
2022-03-23
1: 11:30:00 B Alison Dilaurentis      ABC123456789
2: 12:00:00 P Victoria Gutierrez     ZYX987654321
```

biv:

```

Enter the appointment number that you would like to work on or press [E] to exit, or press [D] to go back to another date.
2
For Victoria Gutierrez          ZYX987654321
1. Review notes
2. Review tests
3. Add a note
4. Prescribe a test
5. Go back to the appointments.
Enter your choice:

```

bv:

```

Enter your choice:
1
2022-06-03 13:05:00  test 123
2022-03-15 04:21:32  can

```

bvi:

```

Enter your choice:
2
2022-06-03 [blood iron          ] average
2022-06-03 [xray                ] everything good
2022-06-02 [blood iron          ] below average
2022-06-02 [ultrasound          ] everything normal

```

bvii:

```

3
Please type your observation:
this assignment is very long

```

bviii:

```

db2 => SELECT DISTINCT m.person_id, m.name, c.couple_id, p.preg_id, a.appt_id, n.note_id, VARCHAR(TRIM(n.observations), 50) FROM Appt_Note n JOIN Appointment
a ON n.appt_id = a.appt_id JOIN Pregnancy p ON a.preg_id = p.preg_id JOIN Couple c ON p.couple_id = c.couple_id JOIN Parent m ON c.mother_id = m.person_id WH
ERE m.person_id = 4;

PERSON_ID  NAME                COUPLE_ID  PREG_ID  APPT_ID  NOTE_ID  7
-----
4 Victoria Gutierrez      5         6        90      202 test 123
4 Victoria Gutierrez      5         6        89      749108800 can
4 Victoria Gutierrez      5         6        89     -585200970 this
4 Victoria Gutierrez      5         6        89     202230314 this assignment is very long

4 record(s) selected.

```

bvix:

```

db2 => SELECT DISTINCT m.person_id, m.name, c.couple_id, p.preg_id, a.appt_id, t.test_id, t.test_type, VARCHAR(TRIM(t.test_result), 50) FROM Medical_Test t JO
IN Appointment a ON t.appt_id = a.appt_id JOIN Pregnancy p ON a.preg_id = p.preg_id JOIN Couple c ON p.couple_id = c.couple_id JOIN Parent m ON c.mother_id =
m.person_id WHERE m.person_id = 4;

PERSON_ID  NAME                COUPLE_ID  PREG_ID  APPT_ID  TEST_ID  TEST_TYPE  8
-----
4 Victoria Gutierrez      5         6        89      154 blood iron      below average
4 Victoria Gutierrez      5         6        89      155 ultrasound     everything normal
4 Victoria Gutierrez      5         6        90      156 blood iron      average
4 Victoria Gutierrez      5         6        90      157 xray            everything good
4 Victoria Gutierrez      5         6        89     -2020296690 trisomy -
4 Victoria Gutierrez      5         6        89     -338422601 Trisomy 21 -

6 record(s) selected.

```

bx:

```

Enter your choice:
4
Please enter the type of test:
trisomy 21
For Victoria Gutierrez          ZYX987654321

1. Review notes
2. Review tests
3. Add a note
4. Prescribe a test
5. Go back to the appointments.
Enter your choice:

```

bx1:

```

db2 => SELECT DISTINCT m.person_id, m.name, c.couple_id, p.preg_id, a.appt_id, t.test_id, t.test_type, VARCHAR(TRIM(t.test_result), 50) FROM Medical_Test t JOIN Appointment a ON t.appt_id = a.appt_id JOIN Pregnancy p ON a.preg_id = p.preg_id JOIN Couple c ON p.couple_id = c.couple_id JOIN Parent m ON c.mother_id = m.person_id WHERE m.person_id = 4;

```

PERSON_ID	NAME	COUPLE_ID	PREG_ID	APPT_ID	TEST_ID	TEST_TYPE	8
4	Victoria Gutierrez	5	6	89	154	blood iron	below average
4	Victoria Gutierrez	5	6	89	155	ultrasound	everything normal
4	Victoria Gutierrez	5	6	90	156	blood iron	average
4	Victoria Gutierrez	5	6	90	157	xray	everything good
4	Victoria Gutierrez	5	6	89	-2020296690	trisomy	-

```

5 record(s) selected.

```

bxii:

```

Enter your choice:
5
Enter the appointment number that you would like to work on or press [E] to exit, or press [D] to go back to another date.

```

ci:

```

db2 => SELECT DISTINCT m.person_id, m.name, c.couple_id, p.preg_id, a.appt_id, n.note_id, VARCHAR(TRIM(n.observations), 50) FROM Appt Note n JOIN Appointment a ON n.appt_id = a.appt_id JOIN Pregnancy p ON a.preg_id = p.preg_id JOIN Couple c ON p.couple_id = c.couple_id JOIN Parent m ON c.mother_id = m.person_id WHERE m.person_id = 1;

```

PERSON_ID	NAME	COUPLE_ID	PREG_ID	APPT_ID	NOTE_ID	7
1	Alison Dilaurentis	1	1	87	200	everything good
1	Alison Dilaurentis	1	1	87	201	test observation
1	Alison Dilaurentis	1	1	87	4000	observation hehe
1	Alison Dilaurentis	1	1	87	4001	observation hehe
1	Alison Dilaurentis	1	1	88	1972769919	observation!

```

5 record(s) selected.

```

cii:

```

Enter the appointment number that you would like to work on or press [E] to exit, or press [D] to go back to another date.
1
For Alison Dilaurentis          ABC123456789

1. Review notes
2. Review tests
3. Add a note
4. Prescribe a test
5. Go back to the appointments.
Enter your choice:

```

ciii:

```

4. Go back to the appointments.
Enter your choice:
1
2022-05-01 10:10:10 test observation
2022-05-01 10:01:01 everything good
2022-03-15 03:31:15 observation!
2022-03-15 03:30:02 observation hehe
2022-03-15 03:24:48 observation hehe
For Alison Dilaurentis ABC123456789

1. Review notes
2. Review tests
3. Add a note
4. Prescribe a test
5. Go back to the appointments.
Enter your choice:

```

civ:

```

Enter your choice:
4
Please enter the type of test:
Group B streptococcus
For Alison Dilaurentis ABC123456789

1. Review notes
2. Review tests
3. Add a note
4. Prescribe a test
5. Go back to the appointments.
Enter your choice:

```

cv:

```

db2 => SELECT DISTINCT m.person_id, m.name, c.couple_id, p.preg_id, a.appt_id, t.test_id, t.test_type, VARCHAR(TRIM(t.test_result), 50) FROM Medical_Test t JO
IN Appointment a ON t.appt_id = a.appt_id JOIN Pregnancy p ON a.preg_id = p.preg_id JOIN Couple c ON p.couple_id = c.couple_id JOIN Parent m ON c.mother_id =
m.person_id WHERE m.person_id = 1;

```

PERSON_ID	NAME	COUPLE_ID	PREG_ID	APPT_ID	TEST_ID	TEST_TYPE	8
1	Alison Dilaurentis	1	1	87	158 blood iron		slightly high
1	Alison Dilaurentis	1	1	88	-1501623806 funny		-
1	Alison Dilaurentis	1	1	92	-1325768948 Group		-
1	Alison Dilaurentis	1	1	92	-1843443047 Group B streptococcus		-

4 record(s) selected.

di:

```

For Alison Dilaurentis ABC123456789

1. Review notes
2. Review tests
3. Add a note
4. Prescribe a test
5. Go back to the appointments.
Enter your choice:
5
Enter the appointment number that you would like to work on or press [E] to exit, or press [D] to go back to another date.

```

```

Enter the appointment number that you would like to work on or press [E] to exit, or press [D] to go back to another date.
D
Please enter the date for the appointment list (YYYY-MM-DD) or press [E] to exit:

```

dii:

```

Please enter the date for the appointment list (YYYY-MM-DD) or press [E] to exit:
2022-06-03
1: 11:30:00 P Victoria Gutierrez ZYX987654321
2: 13:00:00 P Victoria Gutierrez ZYX987654321
Enter the appointment number that you would like to work on or press [E] to exit, or press [D] to go back to another date.

```