# **CPSC 304 Project Cover Page**

Milestone #: 2

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Group Number: 34

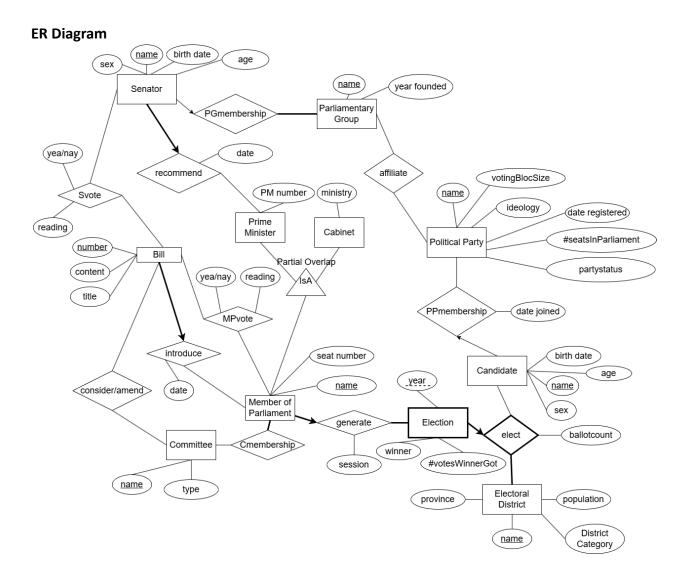
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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

#### **Summary:**

This project is a database about Canada's Parliament. This database will store information about our cabinet members, MPs, and senators and their voting records on specific bills, along with past election data. The system will be available for anyone so they can easily and quickly find information about what policies certain politicians have supported, and not supported in the past in order to make more informed decisions during elections so the people can ensure the politicians they vote for align with their personal values.



#### Changes:

We decided to follow the advice given in milestone 1. Firstly, we fixed the convention in our ER diagram, as we did not underline the key for weak entities with a dashed line. We also made sure that every entity had at least 1 non-PK attribute along with the primary key. On top of that,

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in order to make the diagram more clear, we amended some duplicate names like "Membership" and "Vote". In addition, to make sure we have non-PK/CK functional dependencies, we added extra attributes to Electoral district (district category), Election(#votesWinnerGot), Candidate(age), Senator(age) and PoliticalParty(ideology, votingBlocSize, #seatsInParliament, partystatus).

#### **Relational Schema**

# 1. ElectoralDistrict

```
ElectoralDistrict(
name: VARCHAR(255),
province: VARCHAR(255),
population: INT,
district_category: VARCHAR(100)
)

Primary Key (PK): name
Candidate Key (CK): name
Constraints:
- name is NOT NULL and UNIQUE
```

#### 2. PoliticalParty

```
PoliticalParty(
name: VARCHAR(255),
votingBlocSize: INT,
ideology: VARCHAR(100),
date_registered: DATE,
#seatsInParliament: INT,
partystatus: VARCHAR(100)
)

Primary Key (PK): name
Candidate Key (CK): name
Constraints:
- name is NOT NULL and UNIQUE
```

# 3. Candidate PPmembership

```
Candidate_PPmembership(
name: VARCHAR(255),
birth date: DATE,
```

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Constraints:

```
age: INT,
  sex: CHAR(1),
  date: DATE
Primary Key (PK): name
Constraints:
  - name is NOT NULL and UNIQUE
  - date is NOT NULL
4. Election elect
Election_elect(
  year: INT,
  electoral district name: VARCHAR(255),
  ballot count: INT,
  votes winner got: INT,
  winner: VARCHAR(255)
)
Primary Key (PK): (year, electoral district name)
Foreign Key (FK): electoral district name REFERENCES ElectoralDistrict(name)
Constraints:
  - year is NOT NULL
  - electoral district name is NOT NULL
  - winner is NOT NULL
5. MemberOfParliament Generate
MemberOfParliament Generate(
  name: VARCHAR(255),
  seat number: INT,
  electoral_district_name: VARCHAR(255),
  year: INT,
  session: VARCHAR(255)
)
Primary Key (PK): (name, electoral district name, year)
Foreign Keys (FK):
  - electoral district name REFERENCES ElectoralDistrict(name)
  - year REFERENCES Election_elect(year)
```

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- name, electoral\_district\_name, and year are NOT NULL
- electoral district name and year are part of the Primary Key

# 6. PrimeMinister (ISA relationship with MemberOfParliament)

```
PrimeMinister(
    mp_name: VARCHAR(255),
    PM_number: INT
)

Primary Key (PK): mp_name
Foreign Key (FK): mp_name REFERENCES MemberOfParliament(name)
Constraints:
    - mp_name is NOT NULL and UNIQUE
    - PM_number is NOT NULL and UNIQUE
```

# 7. Cabinet (ISA relationship with MemberOfParliament)

```
Cabinet(
    mp_name: VARCHAR(255),
    ministry: VARCHAR(255)
)

Primary Key (PK): mp_name
Foreign Key (FK): mp_name REFERENCES MemberOfParliament(name)
Constraints:
    - mp_name is NOT NULL and UNIQUE
    - ministry is NOT NULL
```

# 8. Senator\_Recommend\_PGmembership

```
Senator_Recommend_PGmembership(
    name: VARCHAR(255), -- Senator's name
    birth_date: DATE,
    sex: CHAR(1),
    age: INT,
    pm_name: VARCHAR(255), -- Prime Minister's name (who recommends the Senator)
    pg_name: VARCHAR(255), -- Parliamentary Group name (PGmembership)
    date: DATE -- Date of recommendation or appointment
)

Primary Key (PK): name
Foreign Keys (FK):
```

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```
- pm_name REFERENCES PrimeMinister(name)
```

- pg\_name REFERENCES ParliamentaryGroup(name)

#### Constraints:

- name is NOT NULL and UNIQUE
- pm name is NOT NULL
- pg name is NOT NULL
- date is NOT NULL

# 9. ParliamentaryGroup

```
ParliamentaryGroup(
name: VARCHAR(255),
year_founded: DATE
)

Primary Key (PK): name
Candidate Key (CK): name
Constraints:
- name is NOT NULL and UNIQUE
```

# 10. Cmembership (Committee Membership)

```
Cmembership(
    mp_name: VARCHAR(255),
    committee_name: VARCHAR(255),
    committee_type: VARCHAR(255)
)

Primary Key (PK): (mp_name, committee_name)

Foreign Key (FK): mp_name REFERENCES MemberOfParliament(name)

Constraints:
    - mp_name and committee_name are NOT NULL
    - mp_name and committee_name are part of the Primary Key
```

# 11. Svote (Senator Vote)

```
Svote(
yea_nay: CHAR(1),
reading: INT
```

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```
Constraints:
```

- yea\_nay is NOT NULL
- reading is NOT NULL
- senator name and bill number are part of the Primary Key

# 12. MPvote (MP Vote)

```
MPvote(
yea_nay: CHAR(1),
reading: INT
)

Constraints:
- yea_nay is NOT NULL
- reading is NOT NULL
```

# 13. Bill Introduce

```
Bill_Introduce(
    mp_name: VARCHAR(255),
    bill_number: INT,
    content: TEXT,
    title: VARCHAR(255),
    date: DATE
)

Primary Key (PK): (mp_name, bill_number)
Foreign Key (FK): mp_name REFERENCES MemberOfParliament(name)
Constraints:
    - mp_name and bill_number are NOT NULL
    - mp_name and bill_number are part of the Primary Key
    - date is NOT NULL
```

# 14. Consider Amend

```
Consider_Amend(
   committee_name: VARCHAR(255),
   bill_number: INT
)
```

```
Primary Key (PK): (committee name, bill number)
Foreign Keys (FK):
  - committee name REFERENCES Committee(name)
  - bill number REFERENCES Bill(number)
Constraints:
  - committee name and bill number are NOT NULL
  - committee name and bill number are part of the Primary Key
15. Affiliate
Affiliate(
  political party name: VARCHAR(255),
  parliamentary_group_name: VARCHAR(255)
)
Primary Key (PK): (political party name, parliamentary group name)
Foreign Keys (FK):
  - political party name REFERENCES PoliticalParty(name)
  - parliamentary group name REFERENCES ParliamentaryGroup(name)
Constraints:
  - political party name and parliamentary group name are NOT NULL
  - political_party_name and parliamentary_group_name are part of the Primary Key
Functional Dependency
1. ElectoralDistrict
PK-based FD: name \rightarrow population, district category, province
Non-PK FD: population → district category
2. PoliticalParty
PK-based FD: name → ideology, votingBlocSize, date registered, seatsInParliament, partystatus
Non-PK FDs:
- ideology → votingBlocSize
- seatsInParliament → partystatus
3. Candidate
PK-based FD: name → birth date, age, sex, date
Non-PK FD: birth date \rightarrow age
4. Election elect
PK-based FD: (year, electoral district name) → ballot count, votes winner got, winner
```

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Non-PK FD: votes\_winner\_got  $\rightarrow$  winner

# 5. MemberOfParliament

PK-based FD: (name, electoral district name, year) → seat number, session

Non-PK FD: electoral district name → seat number

#### 6. PrimeMinister

PK-based FD: name → PM number

# 7. Senator Recommend PGmembership

PK-based FD: name → birth date, sex, age, pm name, pg name, date

Non-PK FD: pg name  $\rightarrow$  date

#### 8. Cabinet

PK-based FD: name → ministry

# 9. ParliamentaryGroup

PK-based FD: name → year\_founded

#### 10. Cmembership

PK-based FD: (mp\_name, committee\_name) → committee\_type

Non-PK FD: committee name → committee type

#### 11. Svote

No meaningful non-PK/CK FDs (only trivial dependencies exist).

#### 12. MPvote

No meaningful non-PK/CK FDs (only trivial dependencies exist).

# 13. Bill Introduce

PK-based FD: (mp\_name, bill\_number) → title, content, date

Non-PK FDs:

- bill  $number \rightarrow title$ , date
- title → content

# 14. Consider Amend

PK-based FD: (committee name, bill number)  $\rightarrow$  (no non-PK FDs)

#### 15. Affiliate

PK-based FD: (political\_party\_name, parliamentary\_group\_name)

No meaningful non-PK/CK FDs in this relation.

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# Normalization

#### 1. ElectoralDistrict

PK-based FD: name → population, district category, province

Non-PK FD: population → district\_category

No decomposition needed

# 2. PoliticalParty

PK-based FD: name  $\rightarrow$  ideology, votingBlocSize, date\_registered, seatsInParliament, partystatus Non-PK FDs:

- ideology → votingBlocSize
- seatsInParliament → partystatus

# Decomposition:

- PoliticalParty1: name → ideology, date registered, seatsInParliament
- PoliticalParty2: ideology → votingBlocSize
- PoliticalParty3: seatsInParliament → partystatus

#### 3. Candidate

PK-based FD: name → birth date, age, sex, date

Non-PK FD: birth date → age

Decomposition:

- Candidate1: name → birth\_date, sex, date
- Candidate2: birth date → age

# 4. Election elect

PK-based FD: (year, electoral\_district\_name)  $\rightarrow$  ballot\_count, votes\_winner\_got, winner Non-PK FD: votes\_winner\_got  $\rightarrow$  winner

#### Decomposition:

- Election elect1: (year, electoral district name) → ballot count, votes winner got
- Election elect2: votes winner got → winner

#### 5. MemberOfParliament

 ${\sf PK-based\ FD: (name,\ electoral\_district\_name,\ year) \rightarrow seat\_number,\ session}$ 

Non-PK FD: electoral\_district\_name → seat\_number

# Decomposition:

- MemberOfParliament1: (name, electoral district name, year) → session
- MemberOfParliament2: electoral district name → seat number

#### 6. PrimeMinister

PK-based FD: name → PM number

No decomposition needed

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```
7. Senator_Recommend_PGmembership
```

PK-based FD: name → birth\_date, sex, age, pm\_name, pg\_name, date

Non-PK FD: pg name  $\rightarrow$  date

Decomposition:

- Senator Recommend PGmembership1: name → birth date, sex, age, pm name, pg name
- Senator Recommend PGmembership2: pg name → date

#### 8. Cabinet

PK-based FD: name → ministry No decomposition needed

# 9. ParliamentaryGroup

PK-based FD: name → year founded

No decomposition needed

# 10. Cmembership

PK-based FD: (mp\_name, committee\_name) → committee\_type

Non-PK FD: committee\_name → committee\_type

Decomposition:

- Cmembership1: (mp name, committee name) → committee type
- Cmembership2: committee name → committee type

#### 11. Svote

No meaningful non-PK/CK FDs

No decomposition needed

# 12. MPvote

No meaningful non-PK/CK FDs

No decomposition needed

# 13. Bill Introduce

PK-based FD: (mp name, bill number) → title, content, date

Non-PK FDs:

- bill\_number → title, date
- title  $\rightarrow$  content

#### Decomposition:

- Bill Introduce1: (mp name, bill number) → title, date
- Bill Introduce2: title → content

# 14. Consider Amend

PK-based FD: (committee\_name, bill\_number) → (no non-PK FDs)

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No decomposition needed

15. Affiliate

PK-based FD: (political\_party\_name, parliamentary\_group\_name)

No meaningful non-PK/CK FDs No decomposition needed

#### **SQL DDL**

```
CREATE TABLE ElectoralDistrict (
  name VARCHAR(255) PRIMARY KEY,
  population INT NOT NULL,
  district category VARCHAR(100) NOT NULL,
  province VARCHAR(255) NOT NULL
);
CREATE TABLE PoliticalParty1 (
  name VARCHAR(255) PRIMARY KEY,
  ideology VARCHAR(100) NOT NULL,
  date registered DATE NOT NULL,
  seatsInParliament INT NOT NULL
);
CREATE TABLE PoliticalParty2 (
  ideology VARCHAR(100) PRIMARY KEY,
  votingBlocSize INT NOT NULL
);
CREATE TABLE PoliticalParty3 (
  seatsInParliament INT PRIMARY KEY,
  partystatus VARCHAR(100) NOT NULL
);
CREATE TABLE Candidate1 (
  name VARCHAR(255) PRIMARY KEY,
  birth date DATE NOT NULL,
  sex CHAR(1) NOT NULL,
  date DATE NOT NULL
);
CREATE TABLE Candidate2 (
  birth date DATE PRIMARY KEY,
  age INT NOT NULL
);
CREATE TABLE Election_elect1 (
  year INT NOT NULL,
```

```
electoral district name VARCHAR(255) NOT NULL,
 ballot count INT NOT NULL,
 votes winner got INT NOT NULL,
 PRIMARY KEY (year, electoral district name),
 FOREIGN KEY (electoral district name) REFERENCES ElectoralDistrict(name)
);
CREATE TABLE Election elect2 (
 votes winner got INT PRIMARY KEY,
 winner VARCHAR(255) NOT NULL
);
CREATE TABLE MemberOfParliament1 (
 name VARCHAR(255) NOT NULL,
 electoral district name VARCHAR(255) NOT NULL,
 year INT NOT NULL,
 session VARCHAR(255) NOT NULL,
 PRIMARY KEY (name, electoral district name, year),
 FOREIGN KEY (electoral district name) REFERENCES ElectoralDistrict(name)
);
CREATE TABLE MemberOfParliament2 (
 electoral district name VARCHAR(255) PRIMARY KEY,
 seat number INT NOT NULL,
 FOREIGN KEY (electoral district name) REFERENCES ElectoralDistrict(name)
);
CREATE TABLE PrimeMinister (
 name VARCHAR(255) PRIMARY KEY,
 PM number INT NOT NULL
);
CREATE TABLE Senator Recommend PGmembership1 (
 name VARCHAR(255) PRIMARY KEY,
 birth date DATE NOT NULL,
 sex CHAR(1) NOT NULL,
 age INT NOT NULL,
 pm name VARCHAR(255) NOT NULL,
 pg name VARCHAR(255) NOT NULL,
 FOREIGN KEY (pm name) REFERENCES PrimeMinister(name),
 FOREIGN KEY (pg name) REFERENCES ParliamentaryGroup(name)
);
```

```
CREATE TABLE Senator Recommend PGmembership2 (
 pg name VARCHAR(255) PRIMARY KEY,
 date DATE NOT NULL,
 FOREIGN KEY (pg name) REFERENCES ParliamentaryGroup(name)
);
CREATE TABLE Cabinet (
 name VARCHAR(255) PRIMARY KEY,
 ministry VARCHAR(255) NOT NULL,
 FOREIGN KEY (name) REFERENCES MemberOfParliament1(name)
);
CREATE TABLE ParliamentaryGroup (
 name VARCHAR(255) PRIMARY KEY,
 year founded DATE NOT NULL
);
CREATE TABLE Cmembership1 (
 mp name VARCHAR(255) NOT NULL,
 committee name VARCHAR(255) NOT NULL,
 committee type VARCHAR(255) NOT NULL,
 PRIMARY KEY (mp name, committee name),
 FOREIGN KEY (mp name) REFERENCES MemberOfParliament1(name)
);
CREATE TABLE Cmembership2 (
 committee name VARCHAR(255) PRIMARY KEY,
 committee type VARCHAR(255) NOT NULL
);
CREATE TABLE Svote (
 yea_nay CHAR(1) NOT NULL,
 reading INT NOT NULL
);
CREATE TABLE MPvote (
 yea nay CHAR(1) NOT NULL,
 reading INT NOT NULL
);
CREATE TABLE Bill Introduce1 (
 mp_name VARCHAR(255) NOT NULL,
 bill number INT NOT NULL,
```

```
title VARCHAR(255) NOT NULL,
  date DATE NOT NULL,
  PRIMARY KEY (mp name, bill number),
  FOREIGN KEY (mp name) REFERENCES MemberOfParliament1(name)
);
CREATE TABLE Bill Introduce2 (
  title VARCHAR(255) PRIMARY KEY,
  content TEXT NOT NULL
);
CREATE TABLE Consider Amend (
  committee name VARCHAR(255) NOT NULL,
  bill number INT NOT NULL,
  PRIMARY KEY (committee name, bill number),
  FOREIGN KEY (committee name) REFERENCES Cmembership2(committee name),
  FOREIGN KEY (bill number) REFERENCES Bill Introduce1(bill number)
);
CREATE TABLE Affiliate (
  political party name VARCHAR(255) NOT NULL,
  parliamentary group name VARCHAR(255) NOT NULL,
  PRIMARY KEY (political_party_name, parliamentary_group_name),
  FOREIGN KEY (political party name) REFERENCES PoliticalParty1(name),
  FOREIGN KEY (parliamentary_group_name) REFERENCES ParliamentaryGroup(name)
);
```

(2, 'Minority');

```
INSERT statements
INSERT INTO PrimeMinister (name, PM_number)
VALUES ('Justin Trudeau', 23),
   ('Stephen Harper', 22),
   ('Paul Martin', 21),
   ('Jean Chrétien', 20),
   ('Kim Campbell', 19);
INSERT INTO ElectoralDistrict (name, population, district_category, province)
VALUES ('Papineau', 110750, 'Urban', 'Quebec'),
   ('Toronto Centre', 103570, 'Urban', 'Ontario'),
   ('Vancouver Quadra', 120500, 'Urban', 'British Columbia'),
   ('Calgary Heritage', 135000, 'Urban', 'Alberta'),
   ('St. John\'s East', 87000, 'Rural', 'Newfoundland and Labrador');
-- PoliticalParty1 (Main party details)
INSERT INTO PoliticalParty1 (name, ideology, date registered, seatsInParliament)
VALUES ('Liberal Party', 'Liberalism', '1867-07-01', 160),
   ('Conservative Party', 'Conservatism', '2003-12-08', 119),
   ('New Democratic Party', 'Social democracy', '1961-08-03', 25),
   ('Bloc Québécois', 'Quebec nationalism', '1991-06-15', 32),
   ('Green Party', 'Green politics', '1983-07-01', 2);
-- PoliticalParty2 (Voting bloc sizes by ideology, total = 100)
INSERT INTO PoliticalParty2 (ideology, votingBlocSize)
VALUES ('Liberalism', 40),
   ('Conservatism', 35),
   ('Social democracy', 15),
   ('Quebec nationalism', 7),
   ('Green politics', 3);
-- PoliticalParty3 (Seats in Parliament to party status)
INSERT INTO PoliticalParty3 (seatsInParliament, partystatus)
VALUES (160, 'Majority'),
   (119, 'Opposition'),
   (25, 'Minority'),
   (32, 'Minority'),
```

```
-- Candidate1 (Personal details of candidates)
INSERT INTO Candidate1 (name, birth date, sex, date)
VALUES ('Justin Trudeau', '1971-12-25', 'M', '2015-10-19'),
   ('Jagmeet Singh', '1979-01-02', 'M', '2019-10-21'),
   ('Erin O\'Toole', '1973-01-22', 'M', '2021-09-20'),
   ('Yves-François Blanchet', '1965-04-16', 'M', '2019-10-21'),
   ('Annamie Paul', '1972-11-03', 'F', '2021-09-20');
-- Candidate2 (Mapping birth date to age)
INSERT INTO Candidate2 (birth date, age)
VALUES ('1971-12-25', 51),
   ('1979-01-02', 44),
   ('1973-01-22', 50),
   ('1965-04-16', 59),
   ('1972-11-03', 52);
-- Election elect1 (Election details)
INSERT INTO Election_elect1 (year, electoral_district_name, ballot_count, votes_winner_got)
VALUES (2019, 'Papineau', 50000, 30000),
   (2021, 'Toronto Centre', 45000, 28000),
   (2021, 'Vancouver Quadra', 60000, 40000),
   (2021, 'Calgary Heritage', 55000, 35000),
   (2021, 'St. John\'s East', 30000, 15000);
-- Election elect2 (Election winners)
INSERT INTO Election elect2 (votes winner got, winner)
VALUES (30000, 'Justin Trudeau'),
   (28000, 'Chrystia Freeland'),
   (40000, 'Joyce Murray'),
   (35000, 'Bob Benzen'),
   (15000, 'Mary Shortall');
-- MemberOfParliament1 (Personal details of MPs)
INSERT INTO MemberOfParliament1 (name, electoral district name, year, session)
VALUES ('Justin Trudeau', 'Papineau', 2021, '43rd'),
   ('Chrystia Freeland', 'Toronto Centre', 2021, '43rd'),
   ('Joyce Murray', 'Vancouver Quadra', 2021, '43rd'),
   ('Bob Benzen', 'Calgary Heritage', 2021, '43rd'),
   ('Mary Shortall', 'St. John\'s East', 2021, '43rd');
-- MemberOfParliament2 (Mapping electoral district to seat number)
INSERT INTO MemberOfParliament2 (electoral_district_name, seat_number)
VALUES ('Papineau', 1),
```

```
('Toronto Centre', 2),
   ('Vancouver Quadra', 3),
   ('Calgary Heritage', 4),
   ('St. John\'s East', 5);
-- Senator Recommend PGmembership1 (Personal details and party/group affiliation)
INSERT INTO Senator_Recommend_PGmembership1 (name, birth_date, sex, age, pm_name,
pg name)
VALUES ('Marc Gold', '1950-06-15', 'M', 73, 'Justin Trudeau', 'Independent Senators Group'),
   ('Peter Boehm', '1954-04-27', 'M', 70, 'Justin Trudeau', 'Progressive Senate Group'),
   ('Lucie Moncion', '1956-09-25', 'F', 67, 'Justin Trudeau', 'Independent Senators Group'),
   ('Raymonde Saint-Germain', '1955-04-05', 'F', 69, 'Justin Trudeau', 'Independent Senators
Group'),
   ('René Cormier', '1957-12-27', 'M', 65, 'Justin Trudeau', 'Independent Senators Group');
-- Senator_Recommend_PGmembership2 (Parliamentary group membership dates)
INSERT INTO Senator Recommend PGmembership2 (pg name, date)
VALUES ('Independent Senators Group', '2016-12-06'),
   ('Progressive Senate Group', '2020-03-15'),
   ('Canadian Senators Group', '2019-11-04'),
   ('Conservative Party Senate Caucus', '2003-12-08'),
   ('Liberal Party Senate Caucus', '1867-07-01');
-- Cabinet
INSERT INTO Cabinet (name, ministry)
VALUES ('Justin Trudeau', 'Prime Minister'),
   ('Chrystia Freeland', 'Deputy Prime Minister'),
   ('Joyce Murray', 'Minister of Fisheries, Oceans, and the Canadian Coast Guard'),
   ('Bill Blair', 'Minister of National Defence'),
   ('Anita Anand', 'President of the Treasury Board');
-- ParliamentaryGroup
INSERT INTO ParliamentaryGroup (name, year_founded)
VALUES ('Independent Senators Group', '2016-12-06'),
   ('Progressive Senate Group', '2020-03-15'),
   ('Canadian Senators Group', '2019-11-04'),
   ('Conservative Party Senate Caucus', '2003-12-08'),
   ('Liberal Party Senate Caucus', '1867-07-01');
-- Cmembership1 (MP committee membership)
INSERT INTO Cmembership1 (mp_name, committee_name, committee_type)
VALUES ('Justin Trudeau', 'Finance Committee', 'Standing'),
   ('Chrystia Freeland', 'Foreign Affairs Committee', 'Standing'),
```

```
('Joyce Murray', 'Environment Committee', 'Standing'),
   ('Bob Benzen', 'Public Safety Committee', 'Standing'),
   ('Mary Shortall', 'Health Committee', 'Standing');
-- Cmembership2 (Committee details)
INSERT INTO Cmembership2 (committee name, committee type)
VALUES ('Finance Committee', 'Standing'),
   ('Foreign Affairs Committee', 'Standing'),
   ('Environment Committee', 'Standing'),
   ('Public Safety Committee', 'Standing'),
   ('Health Committee', 'Standing');
-- Svote
INSERT INTO Svote (yea nay, reading)
VALUES ('Y', 1),
   ('N', 1),
   ('Y', 2),
   ('N', 2),
   ('Y', 3);
-- MPvote
INSERT INTO MPvote (yea_nay, reading)
VALUES ('Y', 1),
   ('N', 1),
   ('Y', 2),
   ('N', 2),
   ('Y', 3);
-- Bill Introduce1 (Bill introduction details)
INSERT INTO Bill_Introduce1 (mp_name, bill_number, title, date)
VALUES ('Justin Trudeau', 1, 'Climate Action Plan', '2021-12-10'),
   ('Chrystia Freeland', 2, 'National Healthcare Strategy', '2021-11-15'),
   ('Joyce Murray', 3, 'Ocean Protection Act', '2021-10-25'),
   ('Bob Benzen', 4, 'Economic Recovery Act', '2021-09-30'),
   ('Mary Shortall', 5, 'Workers Protection Act', '2021-08-15');
-- Bill Introduce2 (Bill content)
INSERT INTO Bill Introduce2 (title, content)
VALUES ('Climate Action Plan', 'An act to address climate change through carbon pricing.'),
   ('National Healthcare Strategy', 'An act to create a unified national healthcare strategy.'),
   ('Ocean Protection Act', 'An act to protect Canadian waters and marine life.'),
   ('Economic Recovery Act', 'An act to stimulate economic growth post-pandemic.'),
```

```
('Workers Protection Act', 'An act to enhance rights and protections for Canadian
workers.');
-- Consider_Amend
INSERT INTO Consider Amend (committee name, bill number)
VALUES ('Finance Committee', 1),
   ('Foreign Affairs Committee', 2),
   ('Environment Committee', 3),
   ('Public Safety Committee', 4),
   ('Health Committee', 5);
-- Affiliate
INSERT INTO Affiliate (political_party_name, parliamentary_group_name)
VALUES ('Liberal Party', 'Liberal Party Senate Caucus'),
   ('Conservative Party', 'Conservative Party Senate Caucus'),
   ('Bloc Québécois', 'Canadian Senators Group'),
   ('Green Party', 'Independent Senators Group'),
   ('New Democratic Party', 'Progressive Senate Group');
```