



Université Libanaise

Faculté de Science – II

Département Informatique

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Countries of the World

Presenté par :

Rita DOUMET

Christian RECHDAN

Presenté pour :

Dr. Hamssa HASROUNY

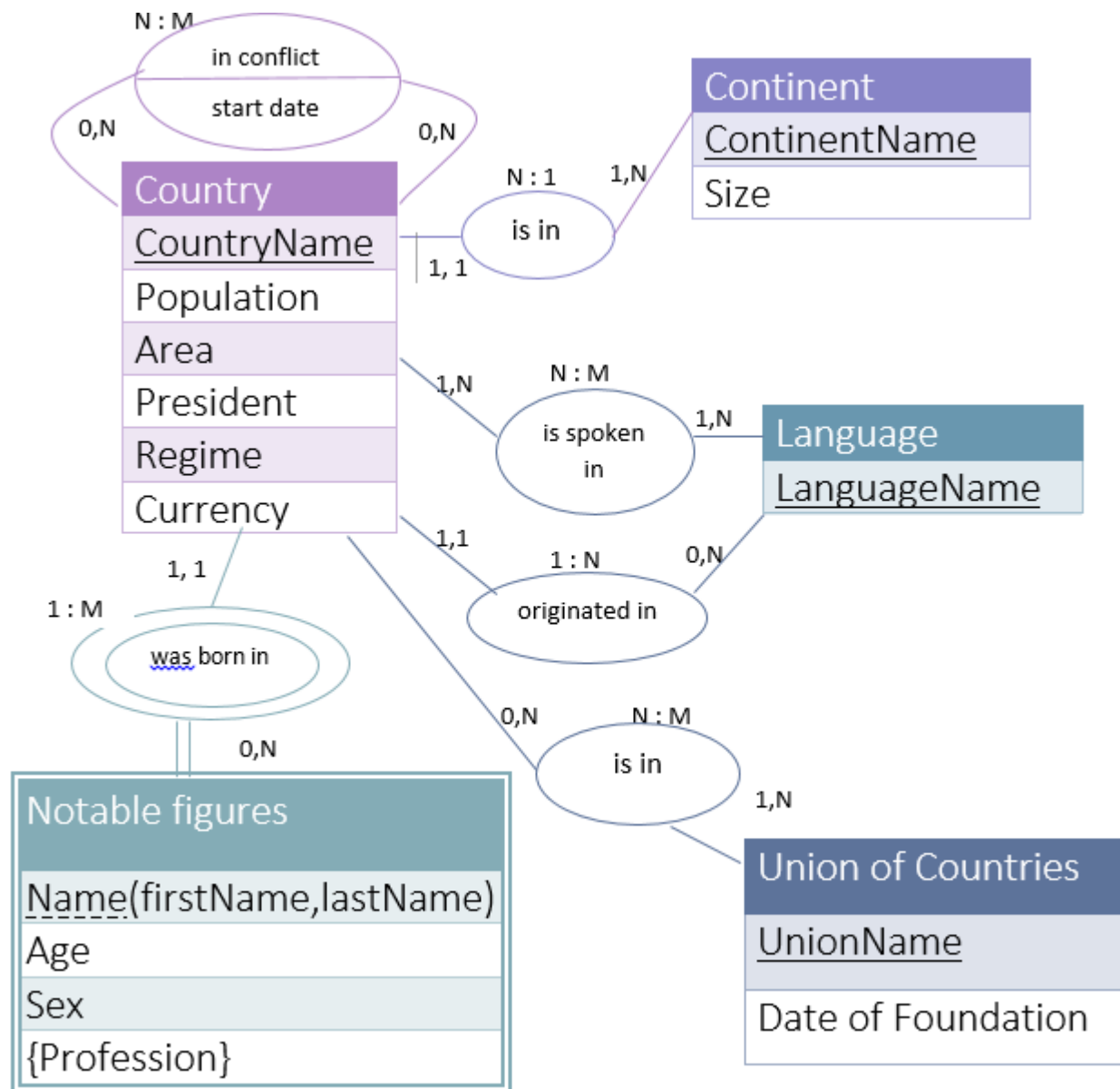
INTRODUCTION

Le but de ce projet est de représenter les pays du monde, leurs relations en tant que conflits entre eux et unions formées, sans oublier les langues parlées autour du monde, les différents continents et les personnalités notables dans chaque pays.

Pour achever ce but, plusieurs TA et TE ont été créées.

- Chaque pays a un nom qui est sa clé primaire, sa population, sa surface, son président, son régime et sa monnaie. Chaque pays peut être dans un et un seul continent.
- Les conflits se forment entre deux pays (peuvent être différents ou le même, dans ce cas on parle d'une guerre civile). Un conflit a une date de début.
- Chaque continent a un nom (clé primaire) et sa surface.
- Pour les langages, chaque langage a et un seul pays d'origine, et il peut être parlé dans plusieurs pays. Comme chaque pays peut aussi avoir plusieurs langages qui sont parlés sur son territoire.
- Chaque union a une date de fondation. Un pays peut faire partie de plusieurs unions.
- Les figures notables sont identifiées à partir de leur nom, prénom et de leurs pays de naissance. Ils ont aussi comme attributs leur âge, leur sexe et leur profession (multi value).

1) Diagramme E/R avec le schéma correspondant :



Passage du modelé ER au modelé relationnel:

Country (CountryName, ContinentName, Population, Area, President, Regime, Currency)

Continent (ContinentName, Area)

Language (LanguageName, CountryName)

NotableFigures (CountryName, FirstName, LastName, Age, Sex)

UnionOfCountries (UnionName, DateOfFoundation)

inConflict (CountryName1, CountryName2, StartDate)

isSpokenIn (CountryName, LanguageName)

isIn (UnionName, CountryName)

Profession_notable_figure(FirstName, LastName, Profession)

2) Code

Creation de tables

```
CREATE TABLE CONTINENT
(
  ContinentName VARCHAR2(20) PRIMARY KEY,
  AREA NUMBER (12, 0)
);
```

```
CREATE TABLE COUNTRY
(
  CountryName VARCHAR2(50) PRIMARY KEY,
  ContinentName VARCHAR2(20) REFERENCES CONTINENT(ContinentName) NOT NULL,
  Population NUMBER(10,0),
  Area NUMBER(10,0),
  President VARCHAR2(50) UNIQUE,
  Regime VARCHAR2(50),
  Currency VARCHAR(3)
);
```

```
CREATE TABLE LANGUAGE
(
  LanguageName VARCHAR2 (30) PRIMARY KEY,
  CountryOfOrigin VARCHAR2(50) REFERENCES COUNTRY(CountryName) ON DELETE SET
  NULL
);
```

```
CREATE TABLE NOTABLEFIGURES
(
  FirstName VARCHAR2(20),
  LastName VARCHAR2(30),
  BornIn VARCHAR2(50) REFERENCES COUNTRY(CountryName),
  Age NUMBER(3,0),
  Sex VARCHAR2(10),
  PRIMARY KEY (FirstName, LastName, BornIn)
);
```

```
CREATE TABLE UnionOfCountries
(
  UnionName VARCHAR2(35) PRIMARY KEY,
  DateOfFoundation Date
);
```

```
CREATE TABLE inConflict
(
  CountryName1 VARCHAR2(50) REFERENCES COUNTRY(CountryName),
  CountryName2 VARCHAR2(50) REFERENCES COUNTRY(CountryName),
  StartDate DATE,
  PRIMARY KEY (CountryName1, CountryName2)
);
```

```
CREATE TABLE ISSPOKENIN
(
  CountryName VARCHAR2(50) REFERENCES COUNTRY(CountryName),
  LanguageName VARCHAR2(30) REFERENCES LANGUAGE(LanguageName),
  PRIMARY KEY (CountryName, LanguageName)
);
```

```
CREATE TABLE ISIN
(
  UnionName VARCHAR2(35) REFERENCES UNIONOFCOUNTRIES(UnionName),
  CountryName VARCHAR2(50) REFERENCES COUNTRY(CountryName),
  PRIMARY KEY (UnionName, CountryName)
);
```

```
CREATE TABLE PROFESSION_NOTABLE_FIGURE(
  FirstName VARCHAR2(20),
  LastName VARCHAR2(30),
  Profession VARCHAR2(30),
  BornIn VARCHAR(50) references country(countryname),
  Foreign Key (FirstName, LastName, BornIn) references notablefigures(firstname,
  lastname, bornin),
  PRIMARY KEY (FirstName, LastName, Profession, BornIn)
);
```

Modification de tables:

ALTER TABLE PROFESSION_NOTABLE_FIGURE MODIFY (Profession NOT NULL);

3) Insertion de tuples

Table 1: Continents

```
INSERT INTO CONTINENT VALUES ('Asia', 44579000);
INSERT INTO CONTINENT VALUES ('Africa', 30065000);
INSERT INTO CONTINENT VALUES ('North America', 24256000);
INSERT INTO CONTINENT VALUES ('South America', 17819000);
INSERT INTO CONTINENT VALUES ('Antarctica', 13209000);
INSERT INTO CONTINENT VALUES ('Europe', 9938000);
INSERT INTO CONTINENT VALUES ('Oceania', 7687000);
```

TABLE 2: Countries (almost all the countries in the world !)

```
INSERT INTO COUNTRY VALUES ('Afghanistan', 'Asia', 38928346, 652860, 'Ashraf Ghani', 'Republic', 'AFN');
INSERT INTO COUNTRY VALUES ('Albania', 'Europe', 2877797, 27405, 'Ilir Meta', 'Republic', 'ALL');
INSERT INTO COUNTRY VALUES ('Algeria', 'Africa', 43851044, 2381740, 'Abdelmadjid Tebboune', 'Republic', 'DZD');
INSERT INTO COUNTRY VALUES ('Andorra', 'Europe', 77265, 470, 'Xavier Espot Zamora', 'Constitutional monarchy', 'EUR');
INSERT INTO COUNTRY VALUES ('Angola', 'Africa', 32866272, 1246700, 'João Lourenço', 'Republic', 'AOA');
INSERT INTO COUNTRY VALUES ('Antigua and Barbuda', 'North America', 97929, 440, 'Gaston Browne', 'Constitutional monarchy', 'XCD');
INSERT INTO COUNTRY VALUES ('Argentina', 'South America', 45195774, 2736690, 'Alberto Fernández', 'Republic', 'ARS');
INSERT INTO COUNTRY VALUES ('Armenia', 'Asia', 2963243, 28470, 'Armen Sarkisyan', 'Republic', 'AMD');
INSERT INTO COUNTRY VALUES ('Australia', 'Oceania', 25499884, 7682300, 'Scott Morrison', 'Constitutional monarchy', 'AUD');
INSERT INTO COUNTRY VALUES ('Austria', 'Europe', 9006398, 82409, 'Alexander Van der Bellen', 'Republic', 'EUR');
INSERT INTO COUNTRY VALUES ('Azerbaijan', 'Asia', 10139177, 82658, 'Ilham Aliyev', 'Republic', 'AZN');
INSERT INTO COUNTRY VALUES ('Bahamas', 'North America', 393244, 10010, 'Hubert Minnis', 'Constitutional monarchy', 'BSD');
INSERT INTO COUNTRY VALUES ('Bahrain', 'Asia', 1701575, 760, 'Salman bin Hamad Al Khalifa', 'Constitutional monarchy', 'BHD');
INSERT INTO COUNTRY VALUES ('Bangladesh', 'Asia', 164689383, 1301170, 'Abdul Hamid', 'Republic', 'BDT');
INSERT INTO COUNTRY VALUES ('Barbados', 'North America', 287375, 430, 'Mia Mottley', 'Constitutional monarchy', 'BBD');
INSERT INTO COUNTRY VALUES ('Belarus', 'Europe', 9449323, 202910, 'Alexander Lukashenko', 'Republic', 'BYN');
INSERT INTO COUNTRY VALUES ('Belgium', 'Europe', 11589623, 30280, 'Alexander De Croo', 'Constitutional monarchy', 'EUR');
INSERT INTO COUNTRY VALUES ('Belize', 'North America', 397628, 22810, 'Juan Briceño', 'Constitutional monarchy', 'BZD');
INSERT INTO COUNTRY VALUES ('Benin', 'Africa', 12123200, 112760, 'Patrice Talon', 'Republic', 'XOF');
INSERT INTO COUNTRY VALUES ('Bhutan', 'Asia', 711608, 38117, 'Lotay Tshering', 'Constitutional monarchy', 'BTN');
INSERT INTO COUNTRY VALUES ('Bolivia', 'Europe', 11673021, 1083300, 'Luis Arce', 'Republic', 'BOB');
INSERT INTO COUNTRY VALUES ('Bosnia and Herzegovina', 'Europe', 3280819, 51000, 'Milorad Dodik', 'Republic', 'BAM');
INSERT INTO COUNTRY VALUES ('Botswana', 'Africa', 2351627, 566730, 'Mokgweetsi Masisi', 'Republic', 'BWP');
INSERT INTO COUNTRY VALUES ('Brazil', 'South America', 212559417, 8358140, 'Jair Bolsonaro', 'Republic', 'BRL');
INSERT INTO COUNTRY VALUES ('Brunei', 'Asia', 437479, 5270, 'Hassanal Bolkiah', 'Absolute monarchy', 'BND');
INSERT INTO COUNTRY VALUES ('Bulgaria', 'Europe', 6948445, 108560, 'Rumen Radev', 'Republic', 'BGN');
INSERT INTO COUNTRY VALUES ('Burkina Faso', 'Africa', 20903273, 273600, 'Roch Marc Christian Kaboré', 'Republic', 'XOF');
```

INSERT INTO COUNTRY VALUES ('Burundi', 'Africa', 11890784, 25680, 'Évariste Ndayishimiye', 'Republic', 'BIF');
 INSERT INTO COUNTRY VALUES ('Côte d'Ivoire', 'Africa', 26378274, 318000, 'Alassane Ouattara', 'Republic', 'XOF');
 INSERT INTO COUNTRY VALUES ('Cabo Verde', 'Africa', 555987, 4030, 'Jorge Carlos Fonseca', 'Republic', 'CVE');
 INSERT INTO COUNTRY VALUES ('Cambodia', 'Asia', 16718965, 176520, 'Hun Sen', 'Constitutional monarchy', 'KHR');
 INSERT INTO COUNTRY VALUES ('Cameroon', 'Africa', 26545863, 472710, 'Paul Biya', 'Republic', 'XAF');
 INSERT INTO COUNTRY VALUES ('Canada', 'North America', 37742154, 9093510, 'Justin Trudeau', 'Constitutional monarchy', 'CAD');
 INSERT INTO COUNTRY VALUES ('Central African Republic', 'Africa', 4829767, 622980, 'Faustin-Archange Touadéra', 'Republic', 'XAF');
 INSERT INTO COUNTRY VALUES ('Chad', 'Africa', 16425864, 1259200, 'Mahamat Déby', 'Provisional', 'XAF');
 INSERT INTO COUNTRY VALUES ('Chile', 'South America', 19116201, 743532, 'Sebastián Piñera', 'Republic', 'CLP');
 INSERT INTO COUNTRY VALUES ('China', 'Asia', 1439323776, 9388211, 'Xi Jinping', 'Republic', 'CNY');
 INSERT INTO COUNTRY VALUES ('Colombia', 'South America', 50882891, 1109500, 'Iván Duque', 'Republic', 'COP');
 INSERT INTO COUNTRY VALUES ('Comoros', 'Africa', 869601, 1861, 'Azali Assoumani', 'Republic', 'KMF');
 INSERT INTO COUNTRY VALUES ('Congo', 'Africa', 5518087, 341500, 'Denis Sassou Nguesso', 'Republic', 'XAF');
 INSERT INTO COUNTRY VALUES ('Costa Rica', 'North America', 5094118, 51060, 'Carlos Alvarado Quesada', 'Republic', 'CRC');
 INSERT INTO COUNTRY VALUES ('Croatia', 'Europe', 4105267, 55960, 'Zoran Milanović', 'Republic', 'HRK');
 INSERT INTO COUNTRY VALUES ('Cuba', 'North America', 11326616, 106440, 'Miguel Díaz-Canel', 'Republic', 'CUP');
 INSERT INTO COUNTRY VALUES ('Cyprus', 'Asia', 1207359, 9240, 'Nicos Anastasiades', 'Republic', 'EUR');
 INSERT INTO COUNTRY VALUES ('Czechia', 'Europe', 10708981, 77240, 'Miloš Zeman', 'Republic', 'CZK');
 INSERT INTO COUNTRY VALUES ('Democratic Republic of the Congo', 'Africa', 89561403, 2267050, 'Félix Tshisekedi', 'Republic', 'CDF');
 INSERT INTO COUNTRY VALUES ('Denmark', 'Europe', 5792202, 42430, 'Mette Frederiksen', 'Constitutional monarchy', 'DKK');
 INSERT INTO COUNTRY VALUES ('Djibouti', 'Africa', 988000, 23180, 'Ismail Omar Guelleh', 'Republic', 'DJF');
 INSERT INTO COUNTRY VALUES ('Dominica', 'North America', 71986, 750, 'Charles Savarin', 'Republic', 'XCD');
 INSERT INTO COUNTRY VALUES ('Dominican Republic', 'North America', 10847910, 48320, 'Luis Abinader', 'Republic', 'DOP');
 INSERT INTO COUNTRY VALUES ('Ecuador', 'South America', 10847910, 48320, 'Guillermo Lasso', 'Republic', 'USD');
 INSERT INTO COUNTRY VALUES ('Egypt', 'Africa', 17643054, 248360, 'Abdel Fattah el-Sisi', 'Republic', 'EGP');
 INSERT INTO COUNTRY VALUES ('El Salvador', 'North America', 6486205, 20720, 'Nayib Bukele', 'Republic', 'USD');
 INSERT INTO COUNTRY VALUES ('Equatorial Guinea', 'Africa', 1402985, 28205, 'Teodoro Obiang Nguema Mbasogo', 'Republic', 'XAF');
 INSERT INTO COUNTRY VALUES ('Eritrea', 'Africa', 3546421, 101000, 'Isaias Afwerki', 'Republic', 'ERN');
 INSERT INTO COUNTRY VALUES ('Estonia', 'Europe', 1326535, 42390, 'Kersti Kaljulaid', 'Republic', 'EUR');
 INSERT INTO COUNTRY VALUES ('Eswatini (fmr. "Swaziland")', 'Africa', 1160164, 17200, 'Mswati III', 'Absolute monarchy', 'SZL');
 INSERT INTO COUNTRY VALUES ('Ethiopia', 'Africa', 114963588, 1000000, 'Sahle-Work Zewde', 'Republic', 'ETB');
 INSERT INTO COUNTRY VALUES ('Fiji', 'Oceania', 896445, 12270, 'Jioji Konrote', 'Republic', 'FJD');
 INSERT INTO COUNTRY VALUES ('Finland', 'Europe', 5540720, 303890, 'Sauli Niinistö', 'Republic', 'EUR');
 INSERT INTO COUNTRY VALUES ('France', 'Europe', 65 273 511, 547 557, 'Emmanuel', 'Macron', 'Republic', 'EUR');
 INSERT INTO COUNTRY VALUES ('Gabon', 'Africa', 2225734, 257670, 'Ali Bongo Ondimba', 'Republic', 'XAF');
 INSERT INTO COUNTRY VALUES ('Gambia', 'Africa', 2416668, 10120, 'Adama Barrow', 'Republic', 'GMD');
 INSERT INTO COUNTRY VALUES ('Georgia', 'Asia', 3989167, 69490, 'Salome Zourabichvili', 'Republic', 'GEL');
 INSERT INTO COUNTRY VALUES ('Germany', 'Europe', 83783942, 348560, 'Frank-Walter Steinmeier', 'Republic', 'EUR');
 INSERT INTO COUNTRY VALUES ('Ghana', 'Asia', 31072940, 227540, 'Nana Akufo-Addo', 'Republic', 'GHS');
 INSERT INTO COUNTRY VALUES ('Greece', 'Europe', 10423054, 128900, 'Katerina Sakellaropoulou', 'Republic', 'EUR');
 INSERT INTO COUNTRY VALUES ('Grenada', 'Europe', 112523, 340, 'Keith Mitchell', 'Constitutional monarchy', 'XCD');
 INSERT INTO COUNTRY VALUES ('Guinea', 'Africa', 13132795, 245720, 'Alpha Condé', 'Republic', 'GNF');
 INSERT INTO COUNTRY VALUES ('Guinea-Bissau', 'Africa', 1968001, 28120, 'Umaro Sissoco Embaló', 'Republic', 'XOF');
 INSERT INTO COUNTRY VALUES ('Guyana', 'South America', 786552, 196850, 'Irfaan Ali', 'Republic', 'GYD');
 INSERT INTO COUNTRY VALUES ('Haiti', 'North America', 11402528, 27560, 'Jovenel Moïse', 'Republic', 'HTG');
 INSERT INTO COUNTRY VALUES ('Holy See', 'Europe', 801, 0, 'Pope Francis', 'Absolute monarchy', 'EUR');
 INSERT INTO COUNTRY VALUES ('Honduras', 'South America', 9904607, 111980, 'Juan Orlando Hernández', 'Republic', 'HNL');
 INSERT INTO COUNTRY VALUES ('Hungary', 'Europe', 9660351, 90530, 'János Áder', 'Republic', 'HUF');
 INSERT INTO COUNTRY VALUES ('Iceland', 'Europe', 341243, 100250, 'Guðni Th. Jóhannesson', 'Republic', 'ISK');

INSERT INTO COUNTRY VALUES ('India', 'Asia', 1380004385, 2973190, 'Ram Nath Kovind', 'Republic', 'INR');
INSERT INTO COUNTRY VALUES ('Indonesia', 'Asia', 273523615, 1811570, 'Joko Widodo', 'Republic', 'IDR');
INSERT INTO COUNTRY VALUES ('Iran', 'Asia', 83992949, 1628550, 'Ali Khamenei', 'Republic', 'IRR');
INSERT INTO COUNTRY VALUES ('Iraq', 'Asia', 40222493, 434320, 'Barham' 'Salih', 'Republic', 'IQD');
INSERT INTO COUNTRY VALUES ('Israel', 'Asia', 8655535, 21640, 'Reuven' 'Rivlin', 'Republic', 'ILS');
INSERT INTO COUNTRY VALUES ('Italy', 'Europe', 60461826, 294140, 'Sergio Mattarella', 'Republic', 'EUR');
INSERT INTO COUNTRY VALUES ('Jamaica', 'North America', 2961167, 10830, 'Andrew Holness', 'Constitutional monarchy', 'JMD');
INSERT INTO COUNTRY VALUES ('Japan', 'Asia', 126476461, 364555, 'Yoshihide Suga', 'Constitutional monarchy', 'JPY');
INSERT INTO COUNTRY VALUES ('Jordan', 'Asia', 10203134, 88780, 'Bisher Al-Khasawneh', 'Constitutional monarchy', 'JOD');
INSERT INTO COUNTRY VALUES ('Kazakhstan', 'Africa', 18776707, 2699700, 'Qasym-Zhomart Toqaev', 'Republic', 'KZT');
INSERT INTO COUNTRY VALUES ('Kenya', 'Africa', 119449, 810, 'Uhuru Kenyatta', 'Republic', 'KES');
INSERT INTO COUNTRY VALUES ('Kiribati', 'Oceania', 4270571, 17820, 'Taneti Maamau', 'Republic', 'AUD');
INSERT INTO COUNTRY VALUES ('Kuwait', 'Asia', 4270571, 17820, 'Sabah Al-Khalid Al-Sabah', 'Constitutional monarchy', 'KWD');
INSERT INTO COUNTRY VALUES ('Kyrgyzstan', 'Asia', 6524195, 191800, 'Sadyr Japarov', 'Republic', 'KGS');
INSERT INTO COUNTRY VALUES ('Laos', 'Asia', 7275560, 230800, 'Thongloun Sisoulith', 'Republic', 'LAK');
INSERT INTO COUNTRY VALUES ('Latvia', 'Europe', 1886198, 62200, 'Egils Levits', 'Republic', 'EUR');
INSERT INTO COUNTRY VALUES ('Lebanon', 'Asia', 10230, 6825445, 'Michel Aoun', 'Republic', 'LBP');
INSERT INTO COUNTRY VALUES ('Lesotho', 'Africa', 2142249, 30360, 'Moeketsi Majoro', 'Constitutional monarchy', 'LSL');
INSERT INTO COUNTRY VALUES ('Liberia', 'Africa', 5057681, 96320, 'George Weah', 'Republic', 'LRD');
INSERT INTO COUNTRY VALUES ('Libya', 'Africa', 6871292, 1759540, 'Mohamed al-Menfi', 'Provisional', 'LYD');
INSERT INTO COUNTRY VALUES ('Liechtenstein', 'Europe', 38128, 160, 'Daniel Risch', 'Constitutional monarchy', 'CHF');
INSERT INTO COUNTRY VALUES ('Lithuania', 'Europe', 2722289, 62674, 'Gitanas Nausėda', 'Republic', 'EUR');
INSERT INTO COUNTRY VALUES ('Luxembourg', 'Europe', 625978, 2590, 'Xavier Bettel', 'Constitutional monarchy', 'EUR');
INSERT INTO COUNTRY VALUES ('Madagascar', 'Africa', 27691018, 581785, 'Andry Rajoelina', 'Republic', 'MGA');
INSERT INTO COUNTRY VALUES ('Malawi', 'Africa', 19129952, 94280, 'Lazarus Chakwera', 'Republic', 'MWK');
INSERT INTO COUNTRY VALUES ('Malaysia', 'Asia', 32365999, 328550, 'Muhyiddin Yassin', 'Constitutional monarchy', 'MYR');
INSERT INTO COUNTRY VALUES ('Maldives', 'Asia', 540544, 300, 'Ibrahim Mohamed Solih', 'Republic', 'MVR');
INSERT INTO COUNTRY VALUES ('Mali', 'Africa', 20250833, 1220190, 'Assimi Goita', 'Provisional', 'XOF');
INSERT INTO COUNTRY VALUES ('Malta', 'Europe', 441543, 320, 'George Vella', 'Republic', 'EUR');
INSERT INTO COUNTRY VALUES ('Marshall Islands', 'Oceania', 59190, 180, 'David Kabua', 'Republic', 'USD');
INSERT INTO COUNTRY VALUES ('Mauritania', 'Africa', 4649658, 1030700, 'Mohamed Ould Ghazouani', 'Republic', 'MRU');
INSERT INTO COUNTRY VALUES ('Mauritius', 'Africa', 1271768, 2030, 'Prithvirajsing Roopun', 'Republic', 'MUR');
INSERT INTO COUNTRY VALUES ('Mexico', 'North America', 128932753, 1943950, 'Andres Manuel López Obrador', 'Republic', 'MXN');
INSERT INTO COUNTRY VALUES ('Micronesia', 'Oceania', 548914, 700, 'David W Panuelo', 'Republic', 'USD');
INSERT INTO COUNTRY VALUES ('Moldova', 'Europe', 4033963, 32850, 'Maia Sandu', 'Republic', 'MDL');
INSERT INTO COUNTRY VALUES ('Monaco', 'Europe', 39242, 1, 'Pierre Dartout', 'Constitutional monarchy', 'EUR');
INSERT INTO COUNTRY VALUES ('Mongolia', 'Asia', 3278290, 1553560, 'Khaltmaagiin Battulga', 'Republic', 'MNT');
INSERT INTO COUNTRY VALUES ('Montenegro', 'Europe', 628066, 13450, 'Milo Đukanović', 'Republic', 'EUR');
INSERT INTO COUNTRY VALUES ('Morocco', 'Africa', 36910560, 446300, 'Saadeddine Othmani', 'Constitutional monarchy', 'MAD');
INSERT INTO COUNTRY VALUES ('Mozambique', 'Africa', 31255435, 786380, 'Filipe Nyusi', 'Republic', 'MZN');
INSERT INTO COUNTRY VALUES ('Myanmar', 'Asia', 54409800, 653290, 'Min Aung Hlaing', 'Provisional', 'MMK');
INSERT INTO COUNTRY VALUES ('Namibia', 'Africa', 2540905, 823290, 'Hage Geingob', 'Republic', 'NAD');
INSERT INTO COUNTRY VALUES ('Nauru', 'Oceania', 10824, 20, 'Lionel Aingimea', 'Republic', 'AUD');
INSERT INTO COUNTRY VALUES ('Nepal', 'Asia', 29136808, 143350, 'Bidhya Devi Bhandari', 'Republic', 'NPR');
INSERT INTO COUNTRY VALUES ('Netherlands', 'Europe', 17134872, 33720, 'Mark Rutte', 'Constitutional monarchy', 'EUR');
INSERT INTO COUNTRY VALUES ('New Zealand', 'Oceania', 4822233, 263310, 'Jacinda Ardern', 'Constitutional monarchy', 'NZD');
INSERT INTO COUNTRY VALUES ('Nicaragua', 'North America', 6624554, 120340, 'Daniel Ortega', 'Republic', 'NIO');
INSERT INTO COUNTRY VALUES ('Niger', 'Africa', 24206644, 1266700, 'Mohamed Bazoum', 'Republic', 'XOF');
INSERT INTO COUNTRY VALUES ('Nigeria', 'Africa', 206139589, 910770, 'Muhammadu Buhari', 'Republic', 'NGN');

INSERT INTO COUNTRY VALUES ('North Korea', 'Asia', 25778816, 120410, 'Kim Jong-un', 'Republic', 'KPW');

INSERT INTO COUNTRY VALUES ('North Macedonia', 'Europe', 2083374, 25220, 'Stevo Pendarovski', 'Republic', 'MKD');

INSERT INTO COUNTRY VALUES ('Norway', 'Europe', 5421241, 365268, 'Erna Solberg', 'Constitutional monarchy', 'NOK');

INSERT INTO COUNTRY VALUES ('Oman', 'Asia', 5106626, 309500, 'Haitham bin Tariq', 'Absolute monarchy', 'OMR');

INSERT INTO COUNTRY VALUES ('Pakistan', 'Asia', 220892340, 770880, 'Arif Alvi', 'Republic', 'PKR');

INSERT INTO COUNTRY VALUES ('Palau', 'Oceania', 18094, 460, 'Surangel Whipps Jr', 'Republic', 'USD');

INSERT INTO COUNTRY VALUES ('Palestine State', 'Asia', 5101414, 6020, 'Mahmoud Abbas', 'Republic', 'ILS');

INSERT INTO COUNTRY VALUES ('Panama', 'North America', 4314767, 74340, 'Laurentino Cortizo', 'Republic', 'USD');

INSERT INTO COUNTRY VALUES ('Papua New Guinea', 'Oceania', 8947024, 452860, 'James Marape', 'Constitutional monarchy', 'PGK');

INSERT INTO COUNTRY VALUES ('Paraguay', 'South America', 7132538, 397300, 'Mario Abdo Benítez', 'Republic', 'PYG');

INSERT INTO COUNTRY VALUES ('Peru', 'South America', 32971854, 1280000, 'Francisco Sagasti', 'Republic', 'PEN');

INSERT INTO COUNTRY VALUES ('Philippines', 'Asia', 109581078, 298170, 'Rodrigo Duterte', 'Republic', 'PHP');

INSERT INTO COUNTRY VALUES ('Poland', 'Europe', 37846611, 306230, 'Andrzej Duda', 'Republic', 'PLN');

INSERT INTO COUNTRY VALUES ('Portugal', 'Europe', 10196709, 91590, 'Marcelo Rebelo de Sousa', 'Republic', 'EUR');

INSERT INTO COUNTRY VALUES ('Qatar', 'Asia', 2881053, 11610, 'Khalid bin Khalifa bin Abdul Aziz Al Thani', 'Constitutional monarchy', 'QAR');

INSERT INTO COUNTRY VALUES ('Romania', 'Europe', 19237691, 230170, 'Klaus Iohannis', 'Republic', 'RON');

INSERT INTO COUNTRY VALUES ('Russia', 'Europe', 145934462, 16376870, 'Vladimir Putin', 'Republic', 'RUB');

INSERT INTO COUNTRY VALUES ('Rwanda', 'Africa', 12952218, 24670, 'Paul Kagame', 'Republic', 'RWF');

INSERT INTO COUNTRY VALUES ('Saint Kitts and Nevis', 'North America', 53199, 260, 'Timothy Harris', 'Constitutional monarchy', 'XCD');

INSERT INTO COUNTRY VALUES ('Saint Lucia', 'North America', 53199, 260, 'Allen Chastanet', 'Constitutional monarchy', 'XCD');

INSERT INTO COUNTRY VALUES ('Saint Vincent and the Grenadines', 'North America', 183627, 610, 'Ralph Gonsalves', 'Constitutional monarchy', 'XCD');

INSERT INTO COUNTRY VALUES ('Samoa', 'Oceania', 198414, 2830, 'Tuimalealiifano Vaaletoa Sualauvi II', 'Republic', 'WST');

INSERT INTO COUNTRY VALUES ('San Marino', 'Europe', 33931, 60, 'Gian Carlo Venturini', 'Republic', 'EUR');

INSERT INTO COUNTRY VALUES ('Sao Tome and Principe', 'North America', 219159, 960, 'Evaristo Carvalho', 'Republic', 'STN');

INSERT INTO COUNTRY VALUES ('Saudi Arabia', 'Asia', 34813871, 2149690, 'Salman', 'Absolute monarchy', 'SAR');

INSERT INTO COUNTRY VALUES ('Senegal', 'Africa', 16743927, 192530, 'Macky Sall', 'Republic', 'XOF');

INSERT INTO COUNTRY VALUES ('Serbia', 'Europe', 8737371, 87460, 'Aleksandar Vučić', 'Republic', 'RSD');

INSERT INTO COUNTRY VALUES ('Seychelles', 'Africa', 98347, 460, 'Wavel Ramkalawan', 'Republic', 'SCR');

INSERT INTO COUNTRY VALUES ('Sierra Leone', 'Africa', 7976983, 72180, 'Julius Maada Bio', 'Republic', 'SLL');

INSERT INTO COUNTRY VALUES ('Singapore', 'Asia', 5850342, 700, 'Halimah Yacob', 'Republic', 'SGD');

INSERT INTO COUNTRY VALUES ('Slovakia', 'Europe', 5459642, 48088, 'Zuzana Čaputová', 'Republic', 'EUR');

INSERT INTO COUNTRY VALUES ('Slovenia', 'Europe', 2078938, 20140, 'Borut Pahor', 'Republic', 'EUR');

INSERT INTO COUNTRY VALUES ('Solomon Islands', 'Africa', 686884, 27990, 'Manasseh Sogavare', 'Constitutional monarchy', 'SBD');

INSERT INTO COUNTRY VALUES ('Somalia', 'Africa', 15893222, 627340, 'Mohamed Abdullahi Mohamed', 'Republic', 'SOS');

INSERT INTO COUNTRY VALUES ('South Africa', 'Africa', 59308690, 1213090, 'Cyril Ramaphosa', 'Republic', 'ZAR');

INSERT INTO COUNTRY VALUES ('South Korea', 'Asia', 51269185, 97230, 'Moon Jaein', 'Republic', 'KRW');

INSERT INTO COUNTRY VALUES ('South Sudan', 'Africa', 11193725, 610952, 'Salva Kiir Mayardit', 'Republic', 'SSP');

INSERT INTO COUNTRY VALUES ('Spain', 'Europe', 46754778, 498800, 'Pedro Sánchez', 'Constitutional monarchy', 'EUR');

INSERT INTO COUNTRY VALUES ('Sri Lanka', 'Africa', 21413249, 62710, 'Gotabaya Rajapaksa', 'Republic', 'LKR');

INSERT INTO COUNTRY VALUES ('Sudan', 'Africa', 43849260, 1765048, 'Abdel Fattah alBurhan', 'Provisional', 'SDG');

INSERT INTO COUNTRY VALUES ('Suriname', 'Africa', 586632, 156000, 'Chan Santokhi', 'Republic', 'SRD');

INSERT INTO COUNTRY VALUES ('Sweden', 'Europe', 10099265, 410340, 'Stefan Löfven', 'Constitutional monarchy', 'SEK');

INSERT INTO COUNTRY VALUES ('Switzerland', 'Europe', 8654622, 39516, 'Guy Parmelin', 'Republic', 'CHF');

INSERT INTO COUNTRY VALUES ('Tajikistan', 'Asia', 9537645, 139960, 'Emomali Rahmon', 'Republic', 'TJS');

INSERT INTO COUNTRY VALUES ('Tanzania', 'Africa', 59734218, 885800, 'Samia Suluhu Hassan', 'Republic', 'TZS');

INSERT INTO COUNTRY VALUES ('Thailand', 'Asia', 69799978, 510890, 'Prayut Chanocha', 'Constitutional monarchy', 'THB');

INSERT INTO COUNTRY VALUES ('Timor Leste', 'Asia', 1318445, 14870, 'Francisco Guterres', 'Republic', 'USD');

INSERT INTO COUNTRY VALUES ('Togo', 'Africa', 8278724, 54390, 'Faure Gnassingbé', 'Republic', 'XOF');

```

INSERT INTO COUNTRY VALUES ('Tonga', 'Oceania', 105695, 720, 'Pōhiva Tuionetoa', 'Constitutional monarchy', 'TOP');
INSERT INTO COUNTRY VALUES ('Trinidad and Tobago', 'North America', 1399488, 5130, 'Paula Mae Weekes', 'Republic', 'TTD');
INSERT INTO COUNTRY VALUES ('Tunisia', 'Africa', 11818619, 155360, 'Kaïs Saïed', 'Republic', 'TND');
INSERT INTO COUNTRY VALUES ('Turkey', 'Asia', 84339067, 769630, 'Recep Tayyip Erdoğan', 'Republic', 'TRY');
INSERT INTO COUNTRY VALUES ('Turkmenistan', 'Asia', 6031200, 469930, 'Gurbanguly Berdimuhamedow', 'Republic', 'TMT');
INSERT INTO COUNTRY VALUES ('Tuvalu', 'Oceania', 11792, 30, 'Kausea Natano', 'Constitutional monarchy', 'AUD');
INSERT INTO COUNTRY VALUES ('Uganda', 'Africa', 45741007, 199810, 'Yoweri Museveni', 'Republic', 'UGX');
INSERT INTO COUNTRY VALUES ('Ukraine', 'Europe', 43733762, 579320, 'Volodymyr Zelensky', 'Republic', 'UAH');
INSERT INTO COUNTRY VALUES ('United Arab Emirates', 'Asia', 9890402, 83600, 'Khalifa bin Zayed Al Nahyan', 'Constitutional monarchy', 'AED');
INSERT INTO COUNTRY VALUES ('United Kingdom', 'Europe', 67886011, 241930, 'Boris Johnson', 'Constitutional monarchy', 'GBP');
INSERT INTO COUNTRY VALUES ('United States of America', 'North America', 331002651, 9147420, 'Joe Biden', 'Republic', 'USD');
INSERT INTO COUNTRY VALUES ('Uruguay', 'South America', 3473730, 175020, 'Luis Lacalle Pou', 'Republic', 'UYU');
INSERT INTO COUNTRY VALUES ('Uzbekistan', 'Asia', 33469203, 425400, 'Shavkat Mirziyoyev', 'Republic', 'UZS');
INSERT INTO COUNTRY VALUES ('Vanuatu', 'Oceania', 307145, 12190, 'Tallis Obed Moses', 'Republic', 'VUV');
INSERT INTO COUNTRY VALUES ('Venezuela', 'South America', 28435940, 882050, 'Nicolás Maduro', 'Republic', 'VES');
INSERT INTO COUNTRY VALUES ('Vietnam', 'Asia', 97338579, 310070, 'Nguyễn Phú Trọng', 'Republic', 'VND');
INSERT INTO COUNTRY VALUES ('Yemen', 'Asia', 29825964, 527970, 'Abdrabbuh Mansur Hadi', 'Provisional', 'YER');
INSERT INTO COUNTRY VALUES ('Zambia', 'Africa', 18383955, 743390, 'Edgar Lungu', 'Republic', 'ZMW');
INSERT INTO COUNTRY VALUES ('Zimbabwe', 'Africa', 14862924, 386850, 'Emmerson Mnangagwa', 'Republic', 'USD');

```

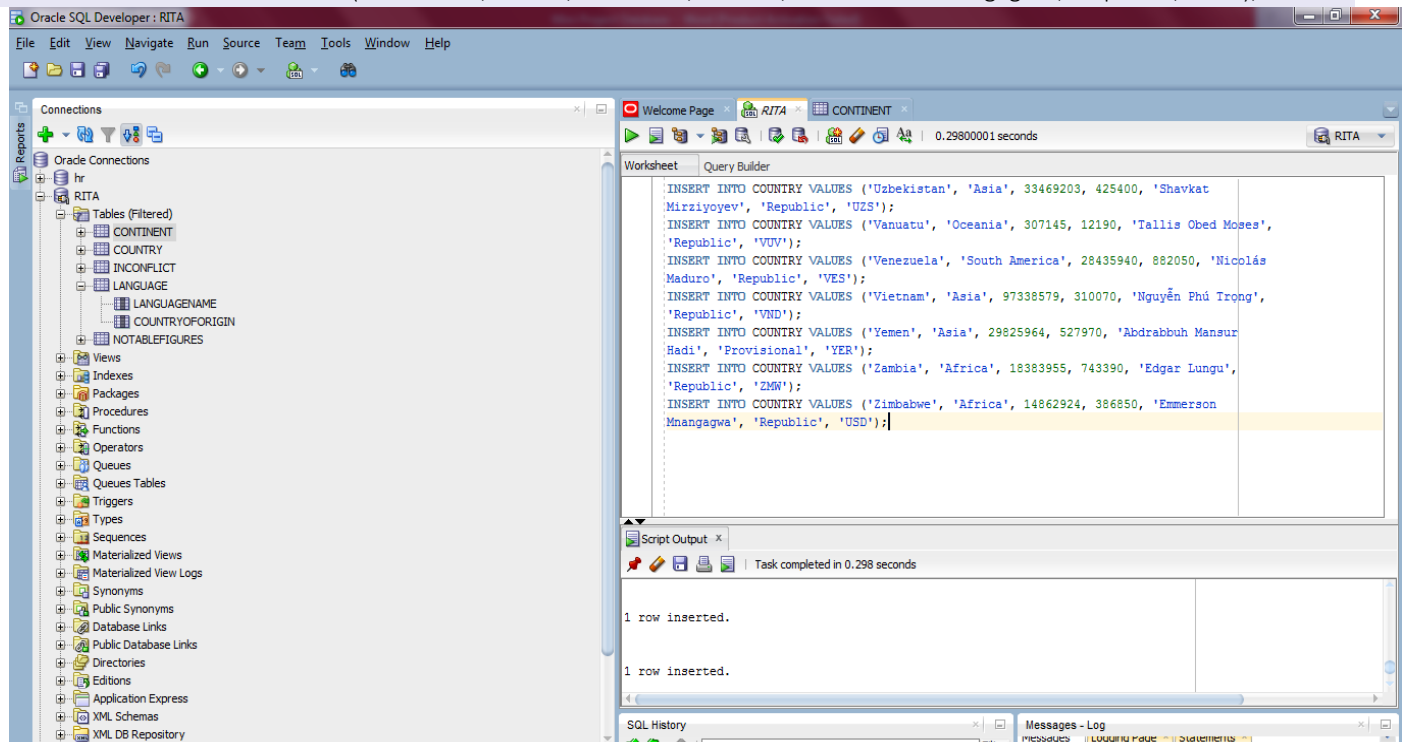


Table 3: Language

insert into language values ('French', 'France');
insert into language values ('English', 'United Kingdom');
insert into language values ('Arabic');
insert into language values ('Spanish', 'Spain');

TABLE 4: Is Spoken In

insert into isspokenin values ('Australia', 'English');
insert into isspokenin values ('Bahamas', 'English');
insert into isspokenin values ('Barbados', 'English');
insert into isspokenin values ('Belize', 'English');
insert into isspokenin values ('Botswana', 'English');
insert into isspokenin values ('Brunei', 'English');
insert into isspokenin values ('Burundi', 'English');
insert into isspokenin values ('Cameroon', 'English');
insert into isspokenin values ('Canada', 'English');
insert into isspokenin values ('Dominica', 'English');
insert into isspokenin values ('Ethiopia', 'English');
insert into isspokenin values ('Fiji', 'English');
insert into isspokenin values ('Gambia', 'English');
insert into isspokenin values ('Ghana', 'English');
insert into isspokenin values ('Grenada', 'English');
insert into isspokenin values ('Guyana', 'English');
insert into isspokenin values ('India', 'English');
insert into isspokenin values ('Ireland', 'English');
insert into isspokenin values ('Jamaica', 'English');
insert into isspokenin values ('Kenya', 'English');
insert into isspokenin values ('Kiribati', 'English');
insert into isspokenin values ('Lesotho', 'English');
insert into isspokenin values ('Liberia', 'English');
insert into isspokenin values ('Malawi', 'English');
insert into isspokenin values ('Malaysia', 'English');
insert into isspokenin values ('Malta', 'English');
insert into isspokenin values ('Marshall Islands', 'English');
insert into isspokenin values ('Mauritius', 'English');
insert into isspokenin values ('Namibia', 'English');
insert into isspokenin values ('Nauru', 'English');
insert into isspokenin values ('New Zealand', 'English');
insert into isspokenin values ('Nigeria', 'English');
insert into isspokenin values ('Niue', 'English');
insert into isspokenin values ('Norfolk Island', 'English');
insert into isspokenin values ('Pakistan', 'English');
insert into isspokenin values ('Palau', 'English');
insert into isspokenin values ('i', 'English');
insert into isspokenin values ('Philippines', 'English');
insert into isspokenin values ('Rwanda', 'English');

insert into isspokenin values ('Saint Kitts and Nevis', 'English');
insert into isspokenin values ('Saint Lucia', 'English');
insert into isspokenin values ('Saint Vincent and the Grenadines', 'English');
insert into isspokenin values ('Samoa', 'English');
insert into isspokenin values ('Seychelles', 'English');
insert into isspokenin values ('Sierra Leone', 'English');
insert into isspokenin values ('Singapore', 'English');
insert into isspokenin values ('Solomon Islands', 'English');
insert into isspokenin values ('South Sudan', 'English');
insert into isspokenin values ('Sudan', 'English');
insert into isspokenin values ('Tanzania', 'English');
insert into isspokenin values ('Tonga', 'English');
insert into isspokenin values ('Trinidad and Tobago', 'English');
insert into isspokenin values ('Tuvalu', 'English');
insert into isspokenin values ('Uganda', 'English');
insert into isspokenin values ('United Kingdom', 'English');
insert into isspokenin values ('United States', 'English');
insert into isspokenin values ('Vanuatu', 'English');
insert into isspokenin values ('Zambia', 'English');
insert into isspokenin values ('Andorra', 'French');
insert into isspokenin values ('Belgium', 'French');
insert into isspokenin values ('Benin', 'French');
insert into isspokenin values ('Burkina Faso', 'French');
insert into isspokenin values ('Burundi', 'French');
insert into isspokenin values ('Cameroon', 'French');
insert into isspokenin values ('Canada', 'French');
insert into isspokenin values ('Central African Republic', 'French');
insert into isspokenin values ('Chad', 'French');
insert into isspokenin values ('Comoros', 'French');
insert into isspokenin values ('Republic of the Congo', 'French');
insert into isspokenin values ('Democratic Republic of the Congo', 'French');
insert into isspokenin values ('Djibouti', 'French');
insert into isspokenin values ('Equatorial Guinea', 'French');

```

insert into isspokenin values ('France', 'French');
insert into isspokenin values ('Gabon', 'French');
insert into isspokenin values ('Guinea', 'French');
insert into isspokenin values ('Haiti', 'French');
insert into isspokenin values ('Ivory Coast', 'French');
insert into isspokenin values ('Madagascar', 'French');
insert into isspokenin values ('Mali', 'French');
insert into isspokenin values ('Monaco', 'French');
insert into isspokenin values ('Niger', 'French');
insert into isspokenin values ('Rwanda', 'French');
insert into isspokenin values ('Senegal', 'French');
insert into isspokenin values ('Seychelles', 'French');
insert into isspokenin values ('Switzerland', 'French');
insert into isspokenin values ('Togo', 'French');
insert into isspokenin values ('Tunisia', 'French');
insert into isspokenin values ('Vanuatu', 'French');
insert into isspokenin values ('Bahrain', 'Arabic');
insert into isspokenin values ('Chad', 'Arabic');
insert into isspokenin values ('Comoros', 'Arabic');
insert into isspokenin values ('Djibouti', 'Arabic');
insert into isspokenin values ('Egypt', 'Arabic');
insert into isspokenin values ('Iraq', 'Arabic');
insert into isspokenin values ('Jordan', 'Arabic');
insert into isspokenin values ('Kuwait', 'Arabic');
insert into isspokenin values ('Lebanon', 'Arabic');
insert into isspokenin values ('Libya', 'Arabic');
insert into isspokenin values ('Morocco', 'Arabic');
insert into isspokenin values ('Mauritania', 'Arabic');
insert into isspokenin values ('Yemen', 'Arabic');
insert into isspokenin values ('United Arab
Emirates', 'Arabic');

```

```

insert into isspokenin values ('Tunis', 'Arabic');
insert into isspokenin values ('Syria', 'Arabic');
insert into isspokenin values ('Sudan', 'Arabic');
insert into isspokenin values ('Somalia', 'Arabic');
insert into isspokenin values ('Saudi Arabia', 'Arabic');
insert into isspokenin values ('Qatar', 'Arabic');
insert into isspokenin values ('Palestine', 'Arabic');
insert into isspokenin values ('Oman', 'Arabic');
insert into isspokenin values ('Argentina', 'Spanish');
insert into isspokenin values ('Chile', 'Spanish');
insert into isspokenin values ('Columbia', 'Spanish');
insert into isspokenin values ('Spain', 'Spanish');
insert into isspokenin values ('Costa Rica', 'Spanish');
insert into isspokenin values ('Cuba', 'Spanish');
insert into isspokenin values ('Dominican Republic',
'Spanish');
insert into isspokenin values ('Ecuador', 'Spanish');
insert into isspokenin values ('El Salvador', 'Spanish');
insert into isspokenin values ('Equatorial Guinea',
'Spanish');
insert into isspokenin values ('Guatemala', 'Spanish');
insert into isspokenin values ('Honduras', 'Spanish');
insert into isspokenin values ('Mexico', 'Spanish');
insert into isspokenin values ('Nicaragua', 'Spanish');
insert into isspokenin values ('Panama', 'Spanish');
insert into isspokenin values ('Paraguay', 'Spanish');
insert into isspokenin values ('Venezuela', 'Spanish');

```

TABLE 5: Union Of Countries

```

insert into unionofcountries values('European Union', '01-NOV-93');

```

TABLE 6: Is In (Union)

```

insert into isin values('European Union', 'Austria');
insert into isin values('European Union', 'Belgium');
insert into isin values('European Union', 'Bulgaria');
insert into isin values('European Union', 'Croatia');
insert into isin values('European Union', 'Cyprus');
insert into isin values('European Union', 'Czech
Republic');
insert into isin values('European Union', 'Denmark');
insert into isin values('European Union', 'Estonia');
insert into isin values('European Union', 'Finland');
insert into isin values('European Union', 'Germany');
insert into isin values('European Union', 'Greece');
insert into isin values('European Union', 'Hungary');
insert into isin values('European Union', 'Ireland');
insert into isin values('European Union', 'Italy');

```

```

insert into isin values('European Union', 'Latvia');
insert into isin values('European Union', 'Lithuania');
insert into isin values('European Union', 'Malta');
insert into isin values('European Union',
'Luxembourg');
insert into isin values('European Union',
'Netherlands');
insert into isin values('European Union', 'Poland');
insert into isin values('European Union', 'Portugal');
insert into isin values('European Union', 'Romania');
insert into isin values('European Union', 'Slovakia');
insert into isin values('European Union', 'Slovenia');
insert into isin values('European Union', 'Spain');
insert into isin values('European Union', 'Sweden');

```


TABLE 7: In Conflict

```
insert into inconflict values ('Serbia', 'Croatia', '06-FEB-1991')
insert into inconflict values ('India', 'Pakistan', '10-Oct-1965')
insert into inconflict values ('Japan', 'China', '05-Nov-1937')
insert into inconflict values ('Turkey', 'Armenia', '24-Sep-1920');
insert into inconflict values ('Turkey', 'Greece', '30-Jun-1919');
insert into inconflict(countryname1, countryname2) values ('Ireland', 'United Kingdom');
insert into inconflict(countryname1, countryname2) values ('Ghana', 'Nigeria');
insert into inconflict values ('Iran', 'Saudi Arabia', '11-feb-1979');
```

TABLE 8: Notable Figures

```
insert into notablefigures (firstname,lastname,bornin,sex) values ('Gibran','Khalil', 'Lebanon', 'Male');
insert into notablefigures(firstname,lastname,bornin,sex) values ('Edith','Piaf', 'France', 'Female');
insert into notablefigures(firstname,lastname,bornin,sex) values ('Charles','Aznavour', 'France', 'Male');
insert into notablefigures(firstname,lastname,bornin,sex) values ('Stephen','Hawking', 'United Kingdom', 'Male');
insert into notablefigures(firstname,lastname,bornin,sex) values ('Frida','Kahlo', 'Mexico', 'Female');
insert into notablefigures(firstname,lastname,bornin,sex) values ('Najwa','Karam', 'Lebanon', 'Female');
insert into notablefigures values ('Nassim','Taleb', 'Lebanon', '61', 'Male');
insert into notablefigures values ('Elon','Musk', 'South Africa', '49', 'Male');
```

TABLE 9: Profession of Notable Figures

```
insert into profession_notable_figure values ('Gibran','Khalil','Philosopher', 'Lebanon');
insert into profession_notable_figure values ('Gibran','Khalil','Writer', 'Lebanon');
insert into profession_notable_figure values ('Gibran','Khalil','Poet', 'Lebanon');
insert into profession_notable_figure values ('Elon','Musk','Engineer', 'South Africa');
insert into profession_notable_figure values ('Elon','Musk','Businessman', 'South Africa');
insert into profession_notable_figure values ('Edith','Piaf', 'France','Singer');
insert into profession_notable_figure values ('Stephen','Hawking','Physicist', 'United Kingdom');
insert into profession_notable_figure values ('Charles','Aznavour', 'Singer', 'France');
insert into profession_notable_figure values ('Frida','Kahlo','Painter', 'Mexico');
insert into profession_notable_figure values ('Najwa','Karam','Singer', 'Lebanon');
insert into profession_notable_figure values ('Nassim','Taleb','Writer', 'Lebanon');
insert into profession_notable_figure values ('Nassim','Taleb','Statistician', 'Lebanon');
insert into profession_notable_figure values ('Charles', 'Aznavour', 'Singer', 'France');
```

4) Requête

- QUERY 1:

Trouver combien de personnes parlent chaque langue dans chaque continent.

```
SELECT sum(c.population) NbOfSpeakers, c.continentname Continent,  
s.language Language
```

```
FROM country c, isspokenin s
```

```
WHERE c.countryname = s.countryname
```

```
GROUP BY c.continentname, s.language;
```

The screenshot displays the Oracle SQL Developer interface. The main window shows a SQL query in the 'Query Builder' tab, which is identical to the one provided in the text. Below the query, the 'Query Result' tab shows the execution results. The results are displayed in a table with columns: NBOFSPEAKERS, CONTINENT, and LANGUAGE. The table contains 17 rows of data, showing the number of speakers for each language across different continents. The 'Messages - Log' tab at the bottom right shows the execution status: 'All Rows Fetched: 17 in 0.041 seconds'.

NBOFSPEAKERS	CONTINENT	LANGUAGE
36200287	Oceania	English
171515861	South America	Spanish
1780204563	Asia	English
162545689	Asia	Arabic
1402985	Africa	Spanish
73377863	Europe	English
6560000	Asia	French
43640996	North America	English
49144682	North America	French
46754778	Europe	Spanish
87420752	Europe	French
786552	South America	English
199770174	Africa	Arabic
191542491	North America	Spanish
307145	Oceania	French
322939599	Africa	French
500000000	Asia	French

● QUERY 2:

Trouver le nom et les pays avec lesquels un pays est en conflit, sachant que ce pays est en conflit avec plusieurs autre pays (>1).

```
select i.countryname1, i.countryname2
```

```
from inconflit i
```

```
where (select count(*) from inconflit i1 where i1.countryname1=i.countryname1  
or i1.countryname2 = i.countryname2 or i1.countryname1 = i.countryname2 or  
i1.countryname2 = i.countryname1)>1
```

The screenshot displays the Oracle SQL Developer interface. The 'Connections' pane on the left shows a tree structure of database objects, including 'INCONFLICT'. The 'Script Output' pane at the bottom shows the execution of the query, with the message 'All Rows Fetched: 2 in 0.018 seconds'. The 'Query Result' pane displays the following data:

COUNTRYNAME1	COUNTRYNAME2
1 Turkey	Armenia
2 Turkey	Greece

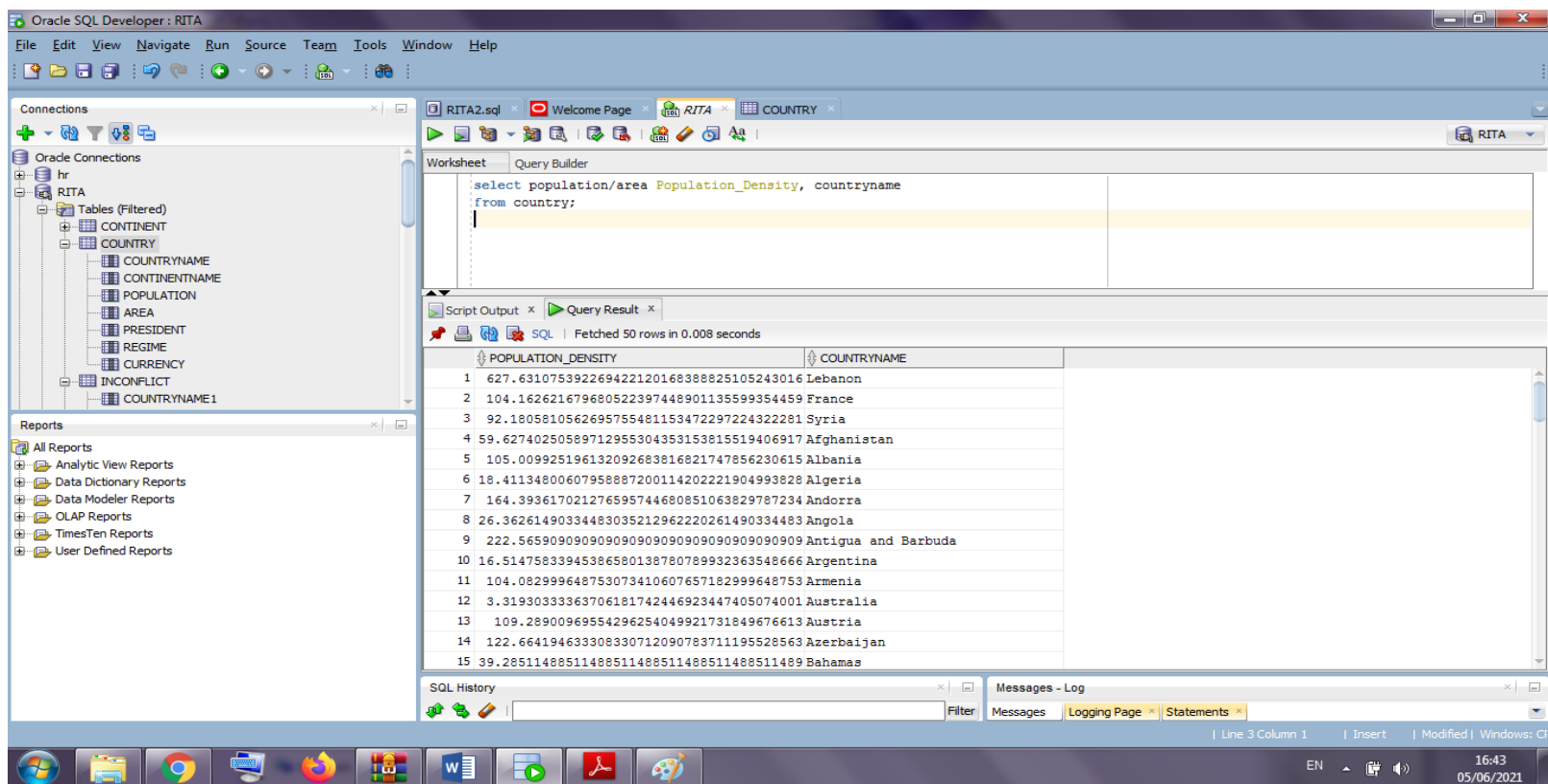
The 'Messages - Log' pane at the bottom right shows the status of the query execution.

• QUERY 3

Trouver la densité de population de chaque pays (population/area)

select population/area PopulationDensity, countryname

from country



Oracle SQL Developer: RITA

File Edit View Navigate Run Source Team Tools Window Help

Connections

Oracle Connections

hr

RITA

Tables (Filtered)

CONTINENT

COUNTRY

COUNTRYNAME

CONTINENTNAME

POPULATION

AREA

PRESIDENT

REGIME

CURRENCY

INCONFLICT

COUNTRYNAME1

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

User Defined Reports

Worksheet

Query Builder

```
select population/area PopulationDensity, countryname
from country;
```

Script Output

Query Result

SQL | Fetched 50 rows in 0.008 seconds

	POPULATION_DENSITY	COUNTRYNAME
1	627.631075392269422120168388825105243016	Lebanon
2	104.162621679680522397448901135599354459	France
3	92.180581056269575548115347229722432281	Syria
4	59.62740250589712955304353153815519406917	Afghanistan
5	105.009925196132092683816821747856230615	Albania
6	18.41134800607958887200114202221904993828	Algeria
7	164.393617021276595744680851063829787234	Andorra
8	26.3626149033448303521296220261490334483	Angola
9	222.5659090909090909090909090909090909	Antigua and Barbuda
10	16.51475833945386580138780789932363548666	Argentina
11	104.082999648753073410607657182999648753	Armenia
12	3.31930333363706181742446923447405074001	Australia
13	109.28900969554296254049921731849676613	Austria
14	122.664194633308330712090783711195528563	Azerbaijan
15	39.28511488511488511488511488511488511489	Bahamas

SQL History

Messages - Log

Filter: Messages Logging Page Statements

Line 3 Column 1 | Insert | Modified | Windows: C

EN 16:43 05/06/2021

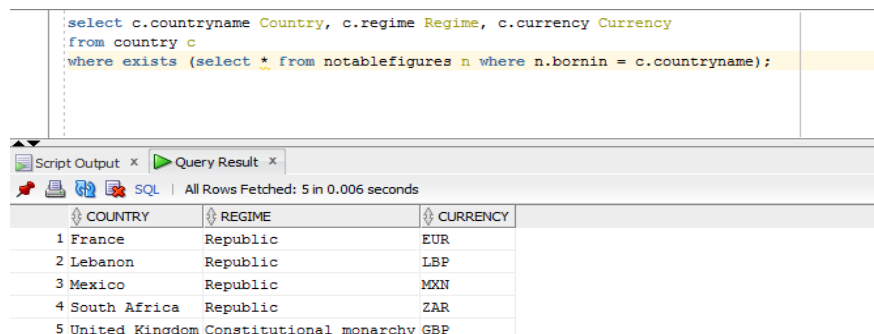
• QUERY 4

Trouver les pays qui ont des figures notables

select c.countryname

from country c

where exists (select * from notablefigures n where n.bornin = c.countryname);



Script Output

Query Result

SQL | All Rows Fetched: 5 in 0.006 seconds

	COUNTRY	REGIME	CURRENCY
1	France	Republic	EUR
2	Lebanon	Republic	LBP
3	Mexico	Republic	MXN
4	South Africa	Republic	ZAR
5	United Kingdom	Constitutional monarchy	GBP

• QUERY 5

Trouver le nom, le pays d'origine et les professions des figures notables qui ont plus qu'une profession

select firstname, lastname, bornin, profession

from profession_notable_figures p

where (select count(*) from profession_notable_figures p1 where
p.firstname=p1.firstname, p1.lastname=p.lastname, p.bornin=p1.bornin)>1

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists the 'RITA' database. The 'Query Builder' pane displays the following SQL query:

```
select firstname, lastname, bornin, profession
from profession_notable_figure p
where (select count(*) from profession_notable_figure p1 where p.firstname=p1.firstname and p1.lastname=p.lastname and p.bornin=p1.bornin)>1
```

The 'Query Result' pane shows the results of the query, which are 5 rows. The columns are FIRSTNAME, LASTNAME, BORNIN, and PROFESSION.

	FIRSTNAME	LASTNAME	BORNIN	PROFESSION
1	Gibran	Khalil	Lebanon	Philosopher
2	Gibran	Khalil	Lebanon	Writer
3	Gibran	Khalil	Lebanon	Poet
4	Elon	Musk	South Africa	Engineer
5	Elon	Musk	South Africa	Businessman

The 'Messages - Log' pane at the bottom right shows the status: 'Line 3 Column 119 | Insert | Modified | Windows: C'.

• QUERY 6

Trouver le président, la monnaie et le nom des pays qui appartiennent à une union de pays et dont le nom du président commence par E.

```
select c.countryname, c.president, c.currency
```

```
from country c
```

```
where c.president like 'E%' and (c.countryname in (select countryname from isin i1 where c.countryname=i1.countryname ));
```

The screenshot shows a 'Query Builder' window with a SQL query entered in the 'Script Output' tab. The query is: `select c.countryname, c.president, c.currency from country c where c.president like 'E%' and (c.countryname in (select countryname from isin i1 where c.countryname=i1.countryname));`. The 'Query Result' tab shows the results of the query, which are 2 rows: 1 France, Emmanuel Macron, EUR; 2 Latvia, Egils Levits, EUR.

COUNTRYNAME	PRESIDENT	CURRENCY
1 France	Emmanuel Macron	EUR
2 Latvia	Egils Levits	EUR

• QUERY 7

Trouver les pays qui sont en guerre civile (pays en conflit avec lui-même), et la date de commencement du conflit.

```
select countryname1, i.startdate
```

```
from inconflict i
```

```
where countryname1=countryname2;
```

The screenshot shows a 'Query Builder' window with a SQL query entered in the 'Script Output' tab. The query is: `select countryname1, i.startdate from inconflict i where countryname1=countryname2;`. The 'Query Result' tab shows the results of the query, which are 1 row: 1 Syria, 15-MAR-11.

COUNTRYNAME1	STARTDATE
1 Syria	15-MAR-11

Conclusion

Nous avons réussi, à partir de ce projet, à établir des relations complexes entre les pays du monde et à les représenter d'une manière fiable et précise. Les différentes requêtes servent à montrer les démographies des pays (densité de population), les différents langages parlés à travers le monde et leur nombre total dans chaque continent. Les relations entre pays ont été exposées à travers les conflits (guerres civiles et conflits entre différents pays), et les unions de pays. La culture a aussi une place dans ce projet, où nous avons étalé une liste de personnes dont le nom mérite d'être mentionné dans quelques pays, avec leurs plusieurs professions.