```
============
Part 1A
============

-- 1(a)
+--------------+---------------+---------------+------------+
| country_code | country_name  | gdp           | inflation  |
+--------------+---------------+---------------+------------+
| CAN          | CANADA        | 1643407000.98 |       4.10 |
| GUA          | GUATEMALA     |   77604632.17 |       3.67 |
| USA          | UNITED STATES |  209036600.00 |       3.40 |
+--------------+---------------+---------------+------------+
3 rows in set (0.00 sec)

-- 1(b)
+--------------+--------------+-----------+------------------+---------------+
| country_code | country_name | inflation | province_name    | gdp           |
+--------------+--------------+-----------+------------------+---------------+
| CAN          | CANADA       |      4.10 | British-Columbia | 1643407000.98 |
| CAN          | CANADA       |      4.10 | Manitoba         | 1643407000.98 |
| CAN          | CANADA       |      4.10 | Quebec           | 1643407000.98 |
| MEX          | MEXICO       |      6.00 | Jalisco          |    1076130.32 |
| MEX          | MEXICO       |      6.00 | Sinaloa          |    1076130.32 |
| MEX          | MEXICO       |      6.00 | Tobasco          |    1076130.32 |
+--------------+--------------+-----------+------------------+---------------+
6 rows in set (0.00 sec)

-- 1(c)
+--------------+--------------+-----------+------------------+---------------+
| country_code | country_name | inflation | province_name    | gdp           |
+--------------+--------------+-----------+------------------+---------------+
| CAN          | CANADA       |      4.10 | British-Columbia | 1643407000.98 |
| CAN          | CANADA       |      4.10 | Manitoba         | 1643407000.98 |
| CAN          | CANADA       |      4.10 | Quebec           | 1643407000.98 |
| MEX          | MEXICO       |      6.00 | Jalisco          |    1076130.32 |
| MEX          | MEXICO       |      6.00 | Sinaloa          |    1076130.32 |
| MEX          | MEXICO       |      6.00 | Tobasco          |    1076130.32 |
+--------------+--------------+-----------+------------------+---------------+
6 rows in set (0.00 sec)

-- 1(d)
+--------------+---------------+------------------+------------+
| country_code | country_name  | province_name    | area       |
+--------------+---------------+------------------+------------+
| MEX          | MEXICO        | Jalisco          |   2479.970 |
| CAN          | CANADA        | Quebec           |  24860.800 |
| USA          | UNITED STATES | Delaware         |   5133.360 |
| GUA          | GUATEMALA     | Zacapa           |   5133.360 |
| GUA          | GUATEMALA     | Escuintla        |   2784.970 |
| MEX          | MEXICO        | Tobasco          |   5133.360 |
| MEX          | MEXICO        | Sinaloa          |   2407.800 |
| USA          | UNITED STATES | Oregon           | 248607.800 |
```

36/40

P: ✓

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| CAN          | CANADA        | British-Columbia |   2879.970 |
| USA          | UNITED STATES | Washington       | 278479.970 |
| CAN          | CANADA        | Manitoba         |  51333.360 |
+--------------+---------------+------------------+------------+
11 rows in set (0.00 sec)

-- 1(e)
+--------------+---------------+------------------+------------+
| country_code | country_name  | province_name    | area       |
+--------------+---------------+------------------+------------+
| MEX          | MEXICO        | Jalisco          |   2479.970 |
| CAN          | CANADA        | Quebec           |  24860.800 |
| USA          | UNITED STATES | Delaware         |   5133.360 |
| GUA          | GUATEMALA     | Zacapa           |   5133.360 |
| GUA          | GUATEMALA     | Escuintla        |   2784.970 |
| MEX          | MEXICO        | Tobasco          |   5133.360 |
| MEX          | MEXICO        | Sinaloa          |   2407.800 |
| USA          | UNITED STATES | Oregon           | 248607.800 |
| CAN          | CANADA        | British-Columbia |   2879.970 |
| USA          | UNITED STATES | Washington       | 278479.970 |
| CAN          | CANADA        | Manitoba         |  51333.360 |
+--------------+---------------+------------------+------------+
11 rows in set (0.00 sec)

-- 1(f)
+--------------+---------------+------------------+------------+
| country_code | country_name  | province_name    | area       |
+--------------+---------------+------------------+------------+
| MEX          | MEXICO        | Jalisco          |   2479.970 |
| CAN          | CANADA        | Quebec           |  24860.800 |
| USA          | UNITED STATES | Delaware         |   5133.360 |
| GUA          | GUATEMALA     | Zacapa           |   5133.360 |
| GUA          | GUATEMALA     | Escuintla        |   2784.970 |
| MEX          | MEXICO        | Tobasco          |   5133.360 |
| MEX          | MEXICO        | Sinaloa          |   2407.800 |
| USA          | UNITED STATES | Oregon           | 248607.800 |
| CAN          | CANADA        | British-Columbia |   2879.970 |
| USA          | UNITED STATES | Washington       | 278479.970 |
| CAN          | CANADA        | Manitoba         |  51333.360 |
+--------------+---------------+------------------+------------+
11 rows in set (0.00 sec)

-- 1(g)
+--------------+---------------+------------------+------------+
| country_code | country_name  | province_name    | area       |
+--------------+---------------+------------------+------------+
| MEX          | MEXICO        | Jalisco          |   2479.970 |
| CAN          | CANADA        | Quebec           |  24860.800 |
| USA          | UNITED STATES | Delaware         |   5133.360 |
| GUA          | GUATEMALA     | Zacapa           |   5133.360 |
| GUA          | GUATEMALA     | Escuintla        |   2784.970 |
| MEX          | MEXICO        | Tobasco          |   5133.360 |
```

```
| MEX          | MEXICO        | Sinaloa          |   2407.800 |
| USA          | UNITED STATES | Oregon           | 248607.800 |
| CAN          | CANADA        | British-Columbia |   2879.970 |
| USA          | UNITED STATES | Washington       | 278479.970 |
| CAN          | CANADA        | Manitoba         |  51333.360 |
+--------------+---------------+------------------+------------+
11 rows in set (0.00 sec)

-- 1(h)
+--------------+------------------+--------------+--------------+------------------+--------------+-----------------+
| city_name    | province_name    | country_code | city_name    | province_name    | country_code | city_population |
+--------------+------------------+--------------+--------------+------------------+--------------+-----------------+
| Arden        | Delaware         | USA          | Acatic       | Jalisco          | MEX          |          115000 |
| Eugene       | Oregon           | USA          | Acatic       | Jalisco          | MEX          |          115000 |
| Spokane      | Washington       | USA          | Acatic       | Jalisco          | MEX          |          115000 |
| Vacouver     | British-Columbia | CAN          | Acatic       | Jalisco          | MEX          |          115000 |
| Elota        | Sinaloa          | MEX          | Amos         | Quebec           | CAN          |           90000 |
| Happy Valley | Oregon           | USA          | Amos         | Quebec           | CAN          |           90000 |
| Pihuamo      | Jalisco          | MEX          | Amos         | Quebec           | CAN          |           90000 |
| Pike Creek   | Delaware         | USA          | Amos         | Quebec           | CAN          |           90000 |
| Villahermosa | Tobasco          | MEX          | Amos         | Quebec           | CAN          |           90000 |
| Walla Wall   | Washington       | USA          | Amos         | Quebec           | CAN          |           90000 |
| Acatic       | Jalisco          | MEX          | Arden        | Delaware         | USA          |          115000 |
| Cardenas     | Tobasco          | MEX          | Arden        | Delaware         | USA          |          115000 |
| Vacouver     | British-Columbia | CAN          | Arden        | Delaware         | USA          |          115000 |
| Lorraine     | Quebec           | CAN          | Arenal       | Zacapa           | GUA          |            1500 |
| Rossland     | British-Columbia | CAN          | Arenal       | Zacapa           | GUA          |            1500 |
| Lorraine     | Quebec           | CAN          | Baul         | Escuintla        | GUA          |            1500 |
| Rossland     | British-Columbia | CAN          | Baul         | Escuintla        | GUA          |            1500 |
| Delta        | British-Columbia | CAN          | Brito        | Escuintla        | GUA          |             900 |
| Steinbach    | Manitoba         | CAN          | Brito        | Escuintla        | GUA          |             900 |
| Delta        | British-Columbia | CAN          | Capucal      | Zacapa           | GUA          |             900 |
| Steinbach    | Manitoba         | CAN          | Capucal      | Zacapa           | GUA          |             900 |
| Arden        | Delaware         | USA          | Cardenas     | Tobasco          | MEX          |          115000 |
| Eugene       | Oregon           | USA          | Cardenas     | Tobasco          | MEX          |          115000 |
| Spokane      | Washington       | USA          | Cardenas     | Tobasco          | MEX          |          115000 |
| Vacouver     | British-Columbia | CAN          | Cardenas     | Tobasco          | MEX          |          115000 |
| Zunil        | Quetzaltenango   | GUA          | Choix        | Sinaloa          | MEX          |             100 |
| Portland     | Oregon           | USA          | Comalcalco   | Tobasco          | MEX          |          150000 |
| Seattle      | Washington       | USA          | Comalcalco   | Tobasco          | MEX          |          150000 |
| Wilmington   | Delaware         | USA          | Comalcalco   | Tobasco          | MEX          |          150000 |
| Brito        | Escuintla        | GUA          | Delta        | British-Columbia | CAN          |             900 |
| Capucal      | Zacapa           | GUA          | Delta        | British-Columbia | CAN          |             900 |
| Ostuncalco   | Quetzaltenango   | GUA          | Delta        | British-Columbia | CAN          |             900 |
| Amos         | Quebec           | CAN          | Elota        | Sinaloa          | MEX          |           90000 |
| Happy Valley | Oregon           | USA          | Elota        | Sinaloa          | MEX          |           90000 |
| Pike Creek   | Delaware         | USA          | Elota        | Sinaloa          | MEX          |           90000 |
| Walla Wall   | Washington       | USA          | Elota        | Sinaloa          | MEX          |           90000 |
| Acatic       | Jalisco          | MEX          | Eugene       | Oregon           | USA          |          115000 |
| Cardenas     | Tobasco          | MEX          | Eugene       | Oregon           | USA          |          115000 |
| Vacouver     | British-Columbia | CAN          | Eugene       | Oregon           | USA          |          115000 |
| Amos         | Quebec           | CAN          | Happy Valley | Oregon           | USA          |           90000 |
```

Elota	Sinaloa	MEX	Happy Valley	Oregon	USA	90000
Pihuamo	Jalisco	MEX	Happy Valley	Oregon	USA	90000
Villahermosa	Tobasco	MEX	Happy Valley	Oregon	USA	90000
Arenal	Zacapa	GUA	Lorraine	Quebec	CAN	1500
Baul	Escuintla	GUA	Lorraine	Quebec	CAN	1500
Delta	British-Columbia	CAN	Ostuncalco	Quetzaltenango	GUA	900
Steinbach	Manitoba	CAN	Ostuncalco	Quetzaltenango	GUA	900
Amos	Quebec	CAN	Pihuamo	Jalisco	MEX	90000
Happy Valley	Oregon	USA	Pihuamo	Jalisco	MEX	90000
Pike Creek	Delaware	USA	Pihuamo	Jalisco	MEX	90000
Walla Wall	Washington	USA	Pihuamo	Jalisco	MEX	90000
Amos	Quebec	CAN	Pike Creek	Delaware	USA	90000
Elota	Sinaloa	MEX	Pike Creek	Delaware	USA	90000
Pihuamo	Jalisco	MEX	Pike Creek	Delaware	USA	90000
Villahermosa	Tobasco	MEX	Pike Creek	Delaware	USA	90000
Comalcalco	Tobasco	MEX	Portland	Oregon	USA	150000
San Marcos	Jalisco	MEX	Portland	Oregon	USA	150000
Arenal	Zacapa	GUA	Rossland	British-Columbia	CAN	1500
Baul	Escuintla	GUA	Rossland	British-Columbia	CAN	1500
Portland	Oregon	USA	San Marcos	Jalisco	MEX	150000
Seattle	Washington	USA	San Marcos	Jalisco	MEX	150000
Wilmington	Delaware	USA	San Marcos	Jalisco	MEX	150000
Comalcalco	Tobasco	MEX	Seattle	Washington	USA	150000
San Marcos	Jalisco	MEX	Seattle	Washington	USA	150000
Acatic	Jalisco	MEX	Spokane	Washington	USA	115000
Cardenas	Tobasco	MEX	Spokane	Washington	USA	115000
Vacouver	British-Columbia	CAN	Spokane	Washington	USA	115000
Brito	Escuintla	GUA	Steinbach	Manitoba	CAN	900
Capucal	Zacapa	GUA	Steinbach	Manitoba	CAN	900
Ostuncalco	Quetzaltenango	GUA	Steinbach	Manitoba	CAN	900
Acatic	Jalisco	MEX	Vacouver	British-Columbia	CAN	115000
Arden	Delaware	USA	Vacouver	British-Columbia	CAN	115000
Cardenas	Tobasco	MEX	Vacouver	British-Columbia	CAN	115000
Eugene	Oregon	USA	Vacouver	British-Columbia	CAN	115000
Spokane	Washington	USA	Vacouver	British-Columbia	CAN	115000
Amos	Quebec	CAN	Villahermosa	Tobasco	MEX	90000
Happy Valley	Oregon	USA	Villahermosa	Tobasco	MEX	90000
Pike Creek	Delaware	USA	Villahermosa	Tobasco	MEX	90000
Walla Wall	Washington	USA	Villahermosa	Tobasco	MEX	90000
Amos	Quebec	CAN	Walla Wall	Washington	USA	90000
Elota	Sinaloa	MEX	Walla Wall	Washington	USA	90000
Pihuamo	Jalisco	MEX	Walla Wall	Washington	USA	90000
Villahermosa	Tobasco	MEX	Walla Wall	Washington	USA	90000
Comalcalco	Tobasco	MEX	Wilmington	Delaware	USA	150000
San Marcos	Jalisco	MEX	Wilmington	Delaware	USA	150000
Choix	Sinaloa	MEX	Zunil	Quetzaltenango	GUA	100

86 rows in set (0.01 sec)

-- 1(i)

country_code	country_name

```
+--------------+---------------+
| USA          | UNITED STATES |
+--------------+---------------+
1 row in set (0.00 sec)

--  1(j)
+--------------+---------------+
| country_code | country_name  |
+--------------+---------------+
| USA          | UNITED STATES |
+--------------+---------------+
1 row in set (0.00 sec)

============
Part 1B
============
-- 2(a)
+----------+------------------------+
| item_num | set_name               |
+----------+------------------------+
|     1005 | Lego City Minifig Pack |
+----------+------------------------+
1 row in set (0.00 sec)

-- 2(b)
+----------+------------------------+
| item_num | set_name               |
+----------+------------------------+
|     1001 | Jabba's Palace         |
|     1002 | Space Shuttle          |
|     1003 | Captain Jack's Ship    |
|     1005 | Lego City Minifig Pack |
|     1006 | Autzen Stadium         |
+----------+------------------------+
5 rows in set (0.00 sec)

-- 2(c)
+----------+---------------------+
| item_num | set_name            |
+----------+---------------------+
|     1001 | Jabba's Palace      |
|     1003 | Captain Jack's Ship |
+----------+---------------------+
2 rows in set (0.00 sec)

-- 2(d)
+----------+----------------+
| item_num | set_name       |
+----------+----------------+
|     1006 | Autzen Stadium |
+----------+----------------+
1 row in set (0.00 sec)
```

```
-- 2(e)
+----------+----------------+
| item_num | set_name       |
+----------+----------------+
|     1001 | Jabba's Palace |
|     1004 | Gas Station    |
+----------+----------------+
2 rows in set (0.00 sec)

-- 2(f)
+----------+---------------------+
| item_num | set_name            |
+----------+---------------------+
|     1001 | Jabba's Palace      |
|     1003 | Captain Jack's Ship |
|     1006 | Autzen Stadium      |
+----------+---------------------+
3 rows in set (0.00 sec)

-- 2(g)
+----------+---------------------+
| item_num | set_name            |
+----------+---------------------+
|     1001 | Jabba's Palace      |
|     1002 | Space Shuttle       |
|     1003 | Captain Jack's Ship |
|     1004 | Gas Station         |
|     1006 | Autzen Stadium      |
+----------+---------------------+
5 rows in set (0.00 sec)

-- 2(h)
+----------+----------------+------------+------------+
| item_num | set_name       | brick_name | num_bricks |
+----------+----------------+------------+------------+
|     1001 | Jabba's Palace | 2x4 Brick  |         75 |
|     1001 | Jabba's Palace | 2x4 Brick  |         45 |
|     1001 | Jabba's Palace | 2x2 Brick  |        905 |
|     1001 | Jabba's Palace | 4x16 Plate |         75 |
|     1001 | Jabba's Palace | 1x4 Brick  |        100 |
|     1001 | Jabba's Palace | 8x8 Flat   |        185 |
|     1001 | Jabba's Palace | 2x4 Plate  |         20 |
+----------+----------------+------------+------------+
7 rows in set (0.00 sec)

+----------+------------+------------+
| item_num | brick_name | num_bricks |
+----------+------------+------------+
|     1001 | 2x4 Brick  |         75 |
|     1001 | 2x2 Brick  |        905 |
|     1001 | 4x16 Plate |         75 |
```

```
|     1001 | 1x4 Brick  |        100 |
|     1001 | 8x8 Flat   |        185 |
|     1002 | 1x2 Brick  |         64 |
|     1003 | 1x2 Brick  |         75 |
|     1005 | 1x2 Brick  |         89 |
+----------+------------+------------+
8 rows in set (0.00 sec)

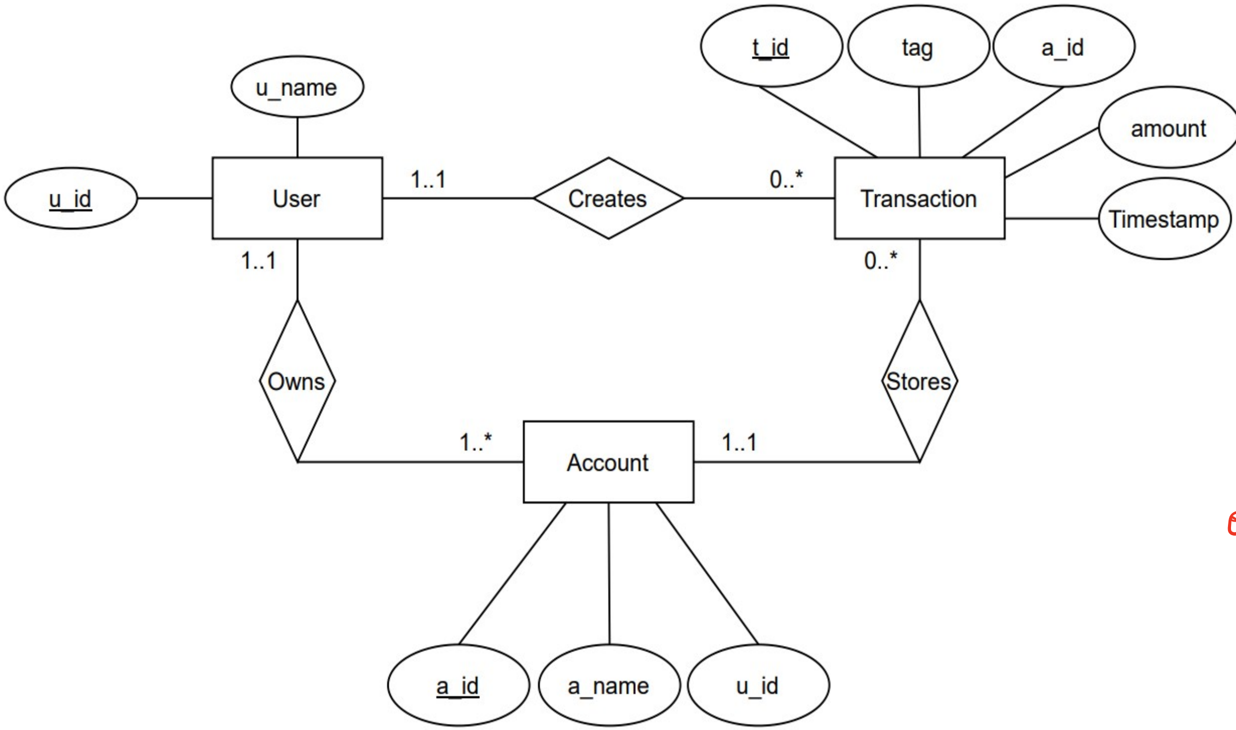
+---------+--------+--------+
| elem_id | des_id | des_id |
+---------+--------+--------+
|     101 |     11 |     12 |
|     101 |     12 |     11 |
+---------+--------+--------+
2 rows in set (0.00 sec)

============
Part 2
============
+------+----------+
| u_id | username |
+------+----------+
|  101 | Zac      |
|  102 | Austin   |
|  103 | Lola     |
|  104 | Sadie    |
+------+----------+
4 rows in set (0.00 sec)

+------+-----------------+------+
| a_id | a_name          | u_id |
+------+-----------------+------+
| 1001 | School Expenses |  101 |
| 1002 | Work Expenses   |  101 |
| 1003 | Gas Expenses    |  101 |
| 1004 | School expenses |  102 |
| 1005 | Team Expenses   |  103 |
| 1006 | Misc. Expenses  |  104 |
+------+-----------------+------+
6 rows in set (0.00 sec)

+------+-----------------+------+----------+-------------------+-----------------------------------------------+
| t_id | tag             | a_id | amount   | timestamp         | t_desc                                        |
+------+-----------------+------+----------+-------------------+-----------------------------------------------+
|    1 | Project Supplies | 1001 |   320.00 | 08/12/21 08:15:32 | Expenses for CPSC312 final project            |
|    2 | Project Supplies | 1001 |    46.95 | 10/19/20 12:00:03 | Expenses for CPSC321 final project            |
|    3 | Parking fines    | 1006 |    50.00 | 06/14/21 16:15:32 | Fine recieved on crossing of Sharp and Standard |
|    4 | Gas              | 1003 |    60.00 | 08/12/21 08:15:32 | Gas purchase at ARCO                          |
|    5 | Project Supplies | 1001 |    86.95 | 1/12/17 12:00:03  | Expenses for CPSC314 final project            |
|    6 | Startup fees     | 1002 |  1005.00 | 06/14/21 16:15:32 | Fees invested in a startup                    |
|    7 | Salary           | 1004 | 32000.00 | 08/1/21 12:00:01  | Salary for pay period                         |
|    8 | Travel           | 1005 |   146.95 | 10/19/18 17:41:43 | Bus rental fee for team bus                   |
```

```
|    9 | Misc. Purchases   | 1006 |   499.00 | 06/14/21 16:15:32 | New XBOX                                      |
+------+-----------------+------+----------+-------------------+-----------------------------------------------+
9 rows in set (0.00 sec)
```



Oh...

```
/*****************************************************************
 * NAME:        Zac Foteff
 * CLASS:       CPSC321: Database Management Systems
 * DATE:        10/24/2021
 * HOMEWORK:    HW6
 * DESCRIPTION: Queries on the CIA factbook database created during HW5
 *****************************************************************/

-- Select statements for factbook table queries
-- 1(a)
SELECT * FROM Country as c WHERE (c.inflation < 5.0);

-- 1(b)
SELECT
    p.country_code,
    c.country_name,
    c.inflation,
    p.province_name,
    c.gdp
FROM
    Country as c,
    Province as p
WHERE
    (p.area < 120000) and
    (c.country_code=p.country_code) and
    (c.inflation > 4.0);

-- 1(c)
SELECT
    p.country_code,
    c.country_name,
    c.inflation,
    p.province_name,
    c.gdp
FROM
    Country as c JOIN Province as p ON (c.country_code=p.country_code)
WHERE
   (p.area < 120000) and (c.inflation > 4.0);

-- 1(d)
SELECT DISTINCT
    p.country_code,
    co.country_name,
    p.province_name,
    p.area
FROM
    City as c,
    Province as p,
    Country as co
WHERE
    (c.city_population > 1000) and
    (p.country_code=co.country_code) and
    (c.province_name=p.province_name);

-- 1(e)
SELECT DISTINCT
    p.country_code,
    co.country_name,
    p.province_name,
    p.area
```

```
FROM
    City as c JOIN
    Province as p ON (c.province_name=p.province_name) JOIN
    Country as co ON (p.country_code=co.country_code)
WHERE
   (c.city_population > 1000);

-- 1(f)
SELECT DISTINCT
    p.country_code,
    co.country_name,
    p.province_name,
    p.area
FROM
    City as c1,
    City as c2,
    Province as p,
    Country as co
WHERE
    (p.country_code=co.country_code) and
    (c1.province_name=p.province_name) and
    (c2.province_name=p.province_name) and
    (c1.city_population > 1000) and
    (c2.city_population > 1000);

-- 1(g)
SELECT DISTINCT
    p.country_code,
    co.country_name,
    p.province_name,
    p.area
FROM
    City as c1 JOIN
    City as c2 JOIN
    Province as p ON (p.province_name=c1.province_name and p.province_name=c2.pr
ovince_name) JOIN
    Country as co ON (p.country_code=co.country_code)
WHERE
    (c1.city_population > 1000) and
    (c2.city_population > 1000);

-- 1(h)
SELECT DISTINCT
    c1.city_name,
    c1.province_name,
    c1.country_code,
    c2.city_name,
    c2.province_name,
    c2.country_code,
    c1.city_population
FROM
    City as c1 JOIN
    City as c2 ON (c1.city_population=c2.city_population)
WHERE
    (c1.province_name<>c2.province_name) and (c1.country_code<>c2.country_code);

-- 1(i)
SELECT DISTINCT
    c1.country_code,
    c1.country_name
```

& city name (-1)

```
FROM
    Country as c1,
    Country as c2,
    Border as b
WHERE
    ((c1.inflation < 4.0) and
    (c1.gdp > 20000000)) and
    ((c2.inflation > 4.0) and
    (c2.gdp < 20000000)) and
    (b.country_code_1=c1.country_code) and
    (b.country_code_2=c2.country_code);

-- 1(j)
SELECT DISTINCT
    c1.country_code,
    c1.country_name
FROM
    Country as c1 JOIN
    Country as c2 ON ((c1.inflation < 4.0 and c1.gdp > 20000000) and (c2.inflati
on > 4.0 and c2.gdp < 20000000)) JOIN
    Border as b
WHERE
    (b.country_code_1=c1.country_code) and
    (b.country_code_2=c2.country_code);
```

(-1) "reciprocal"

```
/*****************************************************************
 * NAME:        Zac Foteff
 * CLASS:       CPSC321: Database Management Systems
 * DATE:        10/24/2021
 * HOMEWORK:    HW6
 * DESCRIPTION: Queries on the ongoing Lego database example from
                previous homeworks
 *****************************************************************/
-- Select statements for Lego table queries
-- 2(a)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
    LegoSets as l JOIN
    PartsList as p ON (p.item_num=l.item_num)
WHERE
    (l.price < 25.00) and
    (p.num_bricks > 10);

-- 2(b)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
    LegoSets as l JOIN
    PartsList as p ON (p.item_num=l.item_num) JOIN
    Bricks as b ON (b.elem_id=p.elem_id)
WHERE
    (b.brick_color="Bright Blue" and b.brick_name="1x2 Brick") or
    (b.brick_color="Bright Red" and b.brick_name="2x4 Plate");

-- 2(c)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
    LegoSets as l JOIN
    Themes as t ON (l.theme_name=t.theme_name)
WHERE
    --  Instead of joining on a 'Disney' theme, I'm doing a join
    --  Over themes with the disney license, since there will be more results
    (t.license="Walt Disney Inc.");

--  2(d)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
    LegoSets as l JOIN
    SetCategories as s ON (l.item_num=s.item_num)
WHERE
    (s.category_name="Sports") or
    (s.category_name="Building");

-- 2(e)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
```

```
    LegoSets as l JOIN
    SetProductionYears as s1 ON (l.item_num=s1.item_num) JOIN
    SetProductionYears as s2 ON (l.item_num=s2.item_num)
WHERE
    (s1.prod_start_year<>s2.prod_start_year);

-- 2(f)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
    LegoSets as l
WHERE
    (l.minifig_count IS NOT NULL) and
    (l.minifig_count > 4) and
    (l.vip_points > 120);

-- 2(g)
SELECT DISTINCT
    l.item_num,
    l.set_name
FROM
    LegoSets as l JOIN
    SetProductionYears as s1 ON (l.item_num=s1.item_num) JOIN
    SetProductionYears as s2 ON (l.item_num=s2.item_num and s1.prod_start_year=s
2.prod_start_year and s1.prod_end_year=s2.prod_end_year)
WHERE
    (s1.prod_end_year IS NOT NULL) and
    (s2.prod_end_year IS NOT NULL);

-- 2(h)
-- Return all the parts is that make up the Jabba's palace set
SELECT DISTINCT
    l.item_num,
    l.set_name,
    b.brick_name,
    p.num_bricks
FROM
    LegoSets as l JOIN
    Bricks as b JOIN
    PartsList as p ON p.item_num=l.item_num
WHERE
    l.set_name="Jabba's Palace" and
    p.elem_id=b.elem_id and
    p.des_id=b.des_id;

-- Return sets with more than 50 of a part
SELECT DISTINCT
    l.item_num,
    b.brick_name,
    p.num_bricks
FROM
    LegoSets as l JOIN
    Bricks as b JOIN
    PartsList as p ON (p.item_num=l.item_num)
WHERE
    p.elem_id=b.elem_id and
    p.des_id=b.des_id and
    p.num_bricks>50;
```

```
-- Return all bricks with multiple design id's
SELECT DISTINCT
    b1.elem_id,
    b1.des_id,
    b2.des_id
FROM
    Bricks as b1 JOIN
    Bricks as b2 ON (b1.elem_id=b2.elem_id)
WHERE
    (b1.des_id<>b2.des_id);
```