```
============
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 |
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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 |
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| 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 |
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157 | Elota        | Sinaloa          | MEX | Happy Valley | Oregon           | USA |      90000 |
158 | Pihuamo      | Jalisco          | MEX | Happy Valley | Oregon           | USA |      90000 |
159 | Villahermosa | Tobasco          | MEX | Happy Valley | Oregon           | USA |      90000 |
160 | Arenal       | Zacapa           | GUA | Lorraine     | Quebec           | CAN |       1500 |
161 | Baul         | Escuintla        | GUA | Lorraine     | Quebec           | CAN |       1500 |
162 | Delta        | British-Columbia | CAN | Ostuncalco   | Quetzaltenango   | GUA |        900 |
163 | Steinbach    | Manitoba         | CAN | Ostuncalco   | Quetzaltenango   | GUA |        900 |
164 | Amos         | Quebec           | CAN | Pihuamo      | Jalisco          | MEX |      90000 |
165 | Happy Valley | Oregon           | USA | Pihuamo      | Jalisco          | MEX |      90000 |
166 | Pike Creek   | Delaware         | USA | Pihuamo      | Jalisco          | MEX |      90000 |
167 | Walla Wall   | Washington       | USA | Pihuamo      | Jalisco          | MEX |      90000 |
168 | Amos         | Quebec           | CAN | Pike Creek   | Delaware         | USA |      90000 |
169 | Elota        | Sinaloa          | MEX | Pike Creek   | Delaware         | USA |      90000 |
170 | Pihuamo      | Jalisco          | MEX | Pike Creek   | Delaware         | USA |      90000 |
171 | Villahermosa | Tobasco          | MEX | Pike Creek   | Delaware         | USA |      90000 |
172 | Comalcalco   | Tobasco          | MEX | Portland     | Oregon           | USA |     150000 |
173 | San Marcos   | Jalisco          | MEX | Portland     | Oregon           | USA |     150000 |
174 | Arenal       | Zacapa           | GUA | Rossland     | British-Columbia | CAN |       1500 |
175 | Baul         | Escuintla        | GUA | Rossland     | British-Columbia | CAN |       1500 |
176 | Portland     | Oregon           | USA | San Marcos   | Jalisco          | MEX |     150000 |
177 | Seattle      | Washington       | USA | San Marcos   | Jalisco          | MEX |     150000 |
178 | Wilmington   | Delaware         | USA | San Marcos   | Jalisco          | MEX |     150000 |
179 | Comalcalco   | Tobasco          | MEX | Seattle      | Washington       | USA |     150000 |
180 | San Marcos   | Jalisco          | MEX | Seattle      | Washington       | USA |     150000 |
181 | Acatic       | Jalisco          | MEX | Spokane      | Washington       | USA |     115000 |
182 | Cardenas     | Tobasco          | MEX | Spokane      | Washington       | USA |     115000 |
183 | Vacouver     | British-Columbia | CAN | Spokane      | Washington       | USA |     115000 |
184 | Brito        | Escuintla        | GUA | Steinbach    | Manitoba         | CAN |        900 |
185 | Capucal      | Zacapa           | GUA | Steinbach    | Manitoba         | CAN |        900 |
186 | Ostuncalco   | Quetzaltenango   | GUA | Steinbach    | Manitoba         | CAN |        900 |
187 | Acatic       | Jalisco          | MEX | Vacouver     | British-Columbia | CAN |     115000 |
188 | Arden        | Delaware         | USA | Vacouver     | British-Columbia | CAN |     115000 |
189 | Cardenas     | Tobasco          | MEX | Vacouver     | British-Columbia | CAN |     115000 |
190 | Eugene       | Oregon           | USA | Vacouver     | British-Columbia | CAN |     115000 |
191 | Spokane      | Washington       | USA | Vacouver     | British-Columbia | CAN |     115000 |
192 | Amos         | Quebec           | CAN | Villahermosa | Tobasco          | MEX |      90000 |
193 | Happy Valley | Oregon           | USA | Villahermosa | Tobasco          | MEX |      90000 |
194 | Pike Creek   | Delaware         | USA | Villahermosa | Tobasco          | MEX |      90000 |
195 | Walla Wall   | Washington       | USA | Villahermosa | Tobasco          | MEX |      90000 |
196 | Amos         | Quebec           | CAN | Walla Wall   | Washington       | USA |      90000 |
197 | Elota        | Sinaloa          | MEX | Walla Wall   | Washington       | USA |      90000 |
198 | Pihuamo      | Jalisco          | MEX | Walla Wall   | Washington       | USA |      90000 |
199 | Villahermosa | Tobasco          | MEX | Walla Wall   | Washington       | USA |      90000 |
200 | Comalcalco   | Tobasco          | MEX | Wilmington   | Delaware         | USA |     150000 |
201 | San Marcos   | Jalisco          | MEX | Wilmington   | Delaware         | USA |     150000 |
202 | Choix        | Sinaloa          | MEX | Zunil        | Quetzaltenango   | GUA |        100 |
203 +--------------+------------------+-----+--------------+------------------+-----+------------+
204 86 rows in set (0.01 sec)
205
206 -- 1(i)
207 +--------------+---------------+
208 | country_code | country_name  |
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+--------------+---------------+
| 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)
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-- 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 |
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|      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                            |
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|     9 | Misc. Purchases  | 1006 |    499.00 | 06/14/21 16:15:32 | New XBOX                                                      |
+------+------------------+------+-----------+-------------------+---------------------------------------------------------------+
9 rows in set (0.00 sec)
```