

Assignment 5

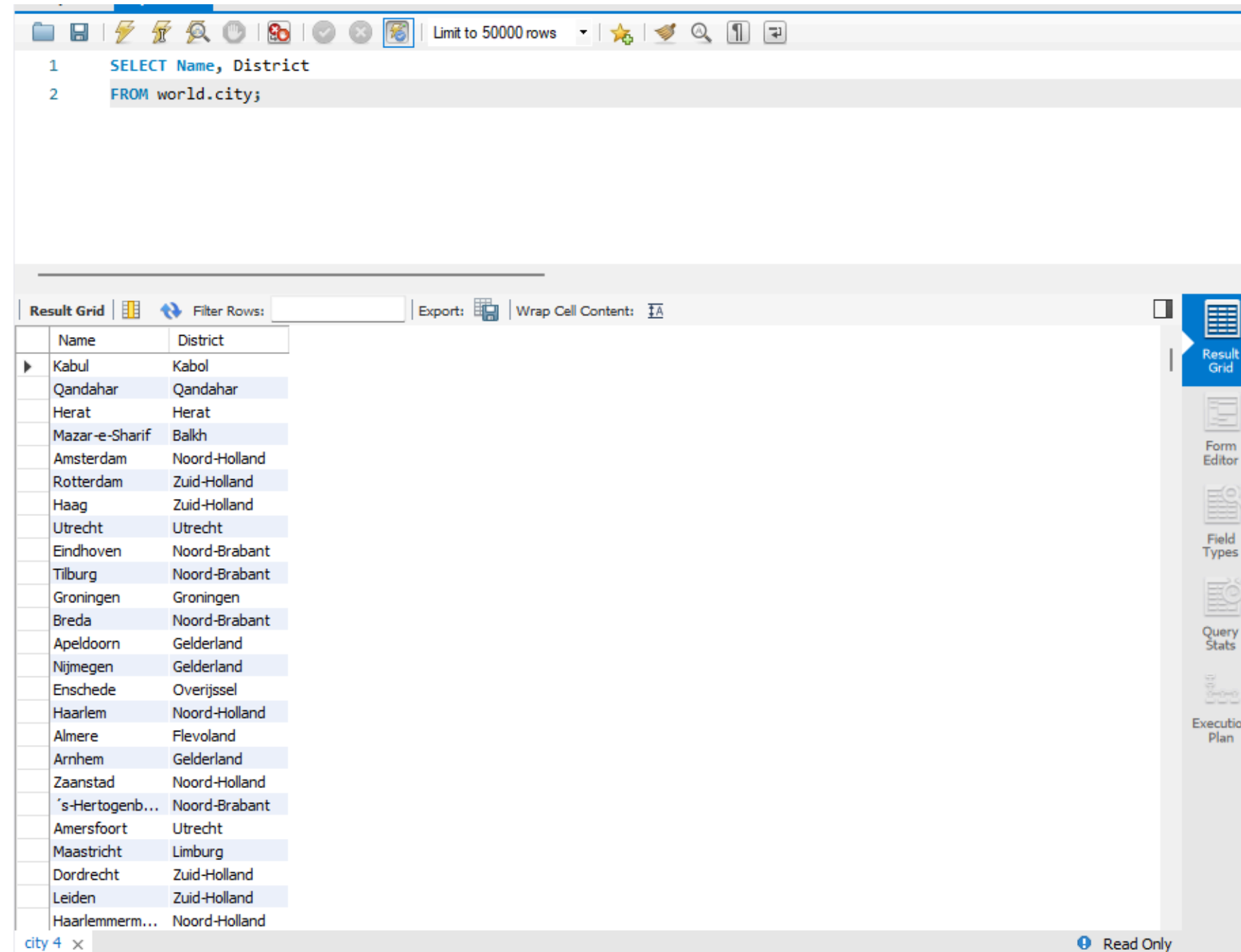
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1. จงเขียนคำสั่งเพื่อดึงข้อมูลทุกคอลัมน์จากร่าง **city**

The screenshot shows a database query tool interface. At the top, a toolbar contains icons for file operations, search, and execution. Below the toolbar, a SQL query is entered in a text area: `1 • SELECT * FROM world.city;`. To the right of the query area, a dropdown menu is set to "Limit to 50000 rows". Below the query area, a toolbar for the "Result Grid" includes options for "Filter Rows", "Edit", "Export/Import", and "Wrap Cell Content". The main area displays a table with 5 columns: ID, Name, CountryCode, District, and Population. The table contains 25 rows of data, with the first row highlighted. On the right side, a vertical sidebar contains icons for "Result Grid", "Form Editor", "Field Types", "Query Stats", and "Execution Plan". At the bottom of the interface, a tab labeled "city 1" is visible, along with "Apply" and "Revert" buttons.

ID	Name	CountryCode	District	Population
1	Kabul	AFG	Kabol	1780000
2	Qandahar	AFG	Qandahar	237500
3	Herat	AFG	Herat	186800
4	Mazar-e-Sharif	AFG	Balkh	127800
5	Amsterdam	NLD	Noord-Holland	731200
6	Rotterdam	NLD	Zuid-Holland	593321
7	Haag	NLD	Zuid-Holland	440900
8	Utrecht	NLD	Utrecht	234323
9	Eindhoven	NLD	Noord-Brabant	201843
10	Tilburg	NLD	Noord-Brabant	193238
11	Groningen	NLD	Groningen	172701
12	Breda	NLD	Noord-Brabant	160398
13	Apeldoorn	NLD	Gelderland	153491
14	Nijmegen	NLD	Gelderland	152463
15	Enschede	NLD	Overijssel	149544
16	Haarlem	NLD	Noord-Holland	148772
17	Almere	NLD	Flevoland	142465
18	Arnhem	NLD	Gelderland	138020
19	Zaanstad	NLD	Noord-Holland	135621
20	's-Hertogenb...	NLD	Noord-Brabant	129170
21	Amersfoort	NLD	Utrecht	126270
22	Maastricht	NLD	Limburg	122087
23	Dordrecht	NLD	Zuid-Holland	119811
24	Leiden	NLD	Zuid-Holland	117196
25	Haarlemmerm...	NLD	Noord-Holland	110722

2. จงแสดงรายชื่อเมือง (**Name**) และเขตการปกครอง (**District**) ของทุกเมือง



The screenshot shows a database query tool interface. At the top, there is a toolbar with various icons and a dropdown menu set to "Limit to 50000 rows". Below the toolbar, a SQL query is entered in a text area:

```
1 SELECT Name, District
2 FROM world.city;
```

Below the query editor, the "Result Grid" tab is active, displaying the query results in a table. The table has two columns: "Name" and "District". The results are as follows:

Name	District
Kabul	Kabol
Qandahar	Qandahar
Herat	Herat
Mazar-e-Sharif	Balkh
Amsterdam	Noord-Holland
Rotterdam	Zuid-Holland
Haag	Zuid-Holland
Utrecht	Utrecht
Eindhoven	Noord-Brabant
Tilburg	Noord-Brabant
Groningen	Groningen
Breda	Noord-Brabant
Apeldoorn	Gelderland
Nijmegen	Gelderland
Enschede	Overijssel
Haarlem	Noord-Holland
Almere	Flevoland
Arnhem	Gelderland
Zaanstad	Noord-Holland
's-Hertogenb...	Noord-Brabant
Amersfoort	Utrecht
Maastricht	Limburg
Dordrecht	Zuid-Holland
Leiden	Zuid-Holland
Haarlemmerm...	Noord-Holland

At the bottom of the interface, there is a status bar showing "city 4 x" and a "Read Only" indicator.

3. จงหาชื่อเมืองที่อยู่ในรหัสประเทศ (**CountryCode**) เป็น **'THA'**

Query 1 city

Limit to 50000 rows

```
1 SELECT *
2 FROM city
3 WHERE CountryCode = 'THA';
4
```

Result Grid

	ID	Name	CountryCode	District	Population
▶	3320	Bangkok	THA	Bangkok	6320174
	3321	Nonthaburi	THA	Nonthaburi	292100
	3322	Nakhon Ratchasima	THA	Nakhon Ratchasima	181400
	3323	Chiang Mai	THA	Chiang Mai	171100
	3324	Udon Thani	THA	Udon Thani	158100
	3325	Hat Yai	THA	Songkhla	148632
	3326	Khon Kaen	THA	Khon Kaen	126500
	3327	Pak Kret	THA	Nonthaburi	126055
	3328	Nakhon Sawan	THA	Nakhon Sawan	123800
	3329	Ubon Ratchathani	THA	Ubon Ratchathani	116300
	3330	Songkhla	THA	Songkhla	94900
	3331	Nakhon Pathom	THA	Nakhon Pathom	94100
*	NULL	NULL	NULL	NULL	NULL

city 8 x Apply Revert

Result Grid
Form Editor
Field Types
Query Stats
Execution Plan

4. จงหาเมืองที่มีจำนวนประชากร (**Population**) มากกว่า **1,000,000** คน

Query 1 city

Limit to 50000 rows

```
1 SELECT *
2 FROM city
3 WHERE Population > 1000000;
```

Result Grid

ID	Name	CountryCode	District	Population
1	Kabul	AFG	Kabul	1780000
35	Alger	DZA	Alger	2168000
56	Luanda	AGO	Luanda	2022000
69	Buenos Aires	ARG	Distrito Federal	2982146
70	La Matanza	ARG	Buenos Aires	1266461
71	Córdoba	ARG	Córdoba	1157507
126	Yerevan	ARM	Yerevan	1248700
130	Sydney	AUS	New South Wales	3276207
131	Melbourne	AUS	Victoria	2865329
132	Brisbane	AUS	Queensland	1291117
133	Perth	AUS	West Australia	1096829
144	Baku	AZE	Baki	1787800
150	Dhaka	BGD	Dhaka	3612850
151	Chittagong	BGD	Chittagong	1392860
206	São Paulo	BRA	São Paulo	9968485
207	Rio de Janeiro	BRA	Rio de Janeiro	5598953
208	Salvador	BRA	Bahia	2302832
209	Belo Horizonte	BRA	Minas Gerais	2139125
210	Fortaleza	BRA	Ceará	2097757
211	Brasilia	BRA	Distrito Federal	1969868
212	Curitiba	BRA	Paraná	1584232
213	Recife	BRA	Pernambuco	1378087
214	Porto Alegre	BRA	Rio Grande do Sul	1314032
215	Manaus	BRA	Amazonas	1255049
216	Belém	BRA	Pará	1186926

city 9

Apply Revert

5. จงหาเมืองในรหัสประเทศ (**CountryCode**) เป็น '**BEL**' และที่มีจำนวนประชากร (**Population**) มากกว่า **2,000,000** คน

The screenshot shows a database query tool interface. The top toolbar includes icons for file operations, query execution, and a 'Limit to 50000 rows' dropdown. The SQL editor contains the following query:

```
1 • SELECT *
2 FROM city
3 WHERE CountryCode = 'BEL'
4 AND Population > 2000000;
```

Below the query editor is the 'Result Grid' section. It features a toolbar with 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content' options. The result grid itself is empty, with a single header row and one data row containing null values:

ID	Name	CountryCode	District	Population
*	NULL	NULL	NULL	NULL

On the right side of the interface, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', 'Query Stats', and 'Execution Plan'. At the bottom left, a tab labeled 'city 10' is visible. At the bottom right, there are 'Apply' and 'Revert' buttons.

6. จงแสดงชื่อประเทศ (**Name**) และทวีป (**Continent**) ของทุกประเทศ

Query 1 city x

Limit to 50000 rows

```
1 • SELECT Name, Continent
2 FROM country;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Name	Continent
Aruba	North America
Afghanistan	Asia
Angola	Africa
Anguilla	North America
Albania	Europe
Andorra	Europe
Netherlands Antilles	North America
United Arab Emirates	Asia
Argentina	South America
Armenia	Asia
American Samoa	Oceania
Antarctica	Antarctica
French Southern ter...	Antarctica
Antigua and Barbuda	North America
Australia	Oceania
Austria	Europe
Azerbaijan	Asia
Burundi	Africa
Belgium	Europe
Benin	Africa
Burkina Faso	Africa
Bangladesh	Asia
Bulgaria	Europe
Bahrain	Asia
Bahamas	North America

country 11 x

Read Only

Result Grid
Form Editor
Field Types
Query Stats
Execution Plan

7. จงหาข้อมูลของประเทศที่ตั้งอยู่ในทวีป 'Asia'

Query 1 city

Limit to 50000 rows

```
1 • SELECT *
2 FROM country
3 WHERE Continent = 'Asia';
```

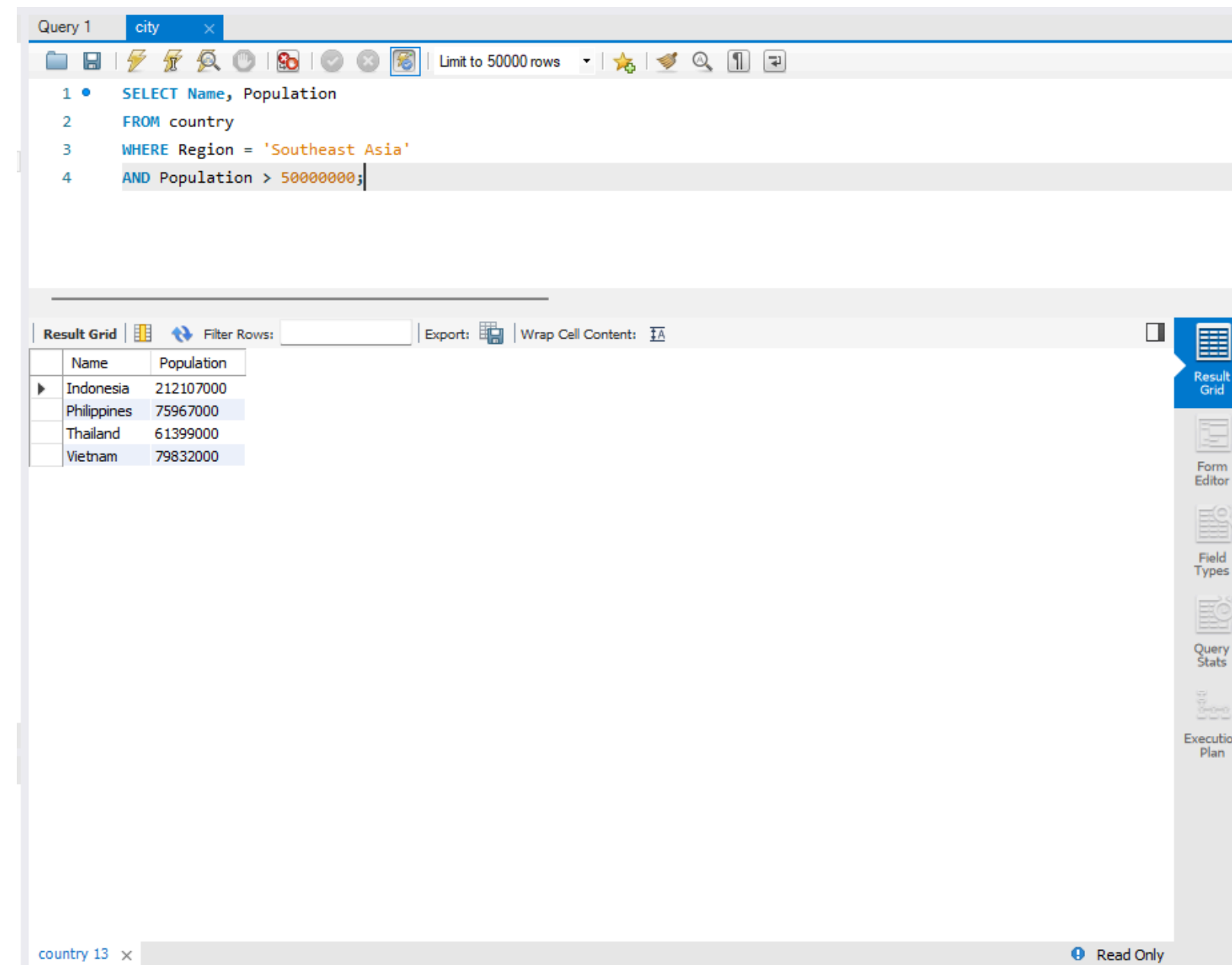
Result Grid

	Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy	GNP	GNPOld
▶	AFG	Afghanistan	Asia	Southern and Central Asia	652090.00	1919	22720000	45.9	5976.00	NULL
	ARE	United Arab Emirates	Asia	Middle East	83600.00	1971	2441000	74.1	37966.00	36846.00
	ARM	Armenia	Asia	Middle East	29800.00	1991	3520000	66.4	1813.00	1627.00
	AZE	Azerbaijan	Asia	Middle East	86600.00	1991	7734000	62.9	4127.00	4100.00
	BGD	Bangladesh	Asia	Southern and Central Asia	143998.00	1971	129155000	60.2	32852.00	31966.00
	BHR	Bahrain	Asia	Middle East	694.00	1971	617000	73.0	6366.00	6097.00
	BRN	Brunei	Asia	Southeast Asia	5765.00	1984	328000	73.6	11705.00	12460.00
	BTN	Bhutan	Asia	Southern and Central Asia	47000.00	1910	2124000	52.4	372.00	383.00
	CHN	China	Asia	Eastern Asia	9572900.00	-1523	1277558000	71.4	982268.00	917719.00
	CYP	Cyprus	Asia	Middle East	9251.00	1960	754700	76.7	9333.00	8246.00
	GEO	Georgia	Asia	Middle East	69700.00	1991	4968000	64.5	6064.00	5924.00
	HKG	Hong Kong	Asia	Eastern Asia	1075.00	NULL	6782000	79.5	166448.00	173610.00
	IDN	Indonesia	Asia	Southeast Asia	1904569.00	1945	212107000	68.0	84982.00	215002.00
	IND	India	Asia	Southern and Central Asia	3287263.00	1947	1013662000	62.5	447114.00	430572.00
	IRN	Iran	Asia	Southern and Central Asia	1648195.00	1906	67702000	69.7	195746.00	160151.00
	IRQ	Iraq	Asia	Middle East	438317.00	1932	23115000	66.5	11500.00	NULL
	ISR	Israel	Asia	Middle East	21056.00	1948	6217000	78.6	97477.00	98577.00
	JOR	Jordan	Asia	Middle East	88946.00	1946	5083000	77.4	7526.00	7051.00
	JPN	Japan	Asia	Eastern Asia	377829.00	-660	126714000	80.7	3787042.00	4192638.00
	KAZ	Kazakstan	Asia	Southern and Central Asia	2724900.00	1991	16223000	63.2	24375.00	23383.00
	KGZ	Kyrgyzstan	Asia	Southern and Central Asia	199900.00	1991	4699000	63.4	1626.00	1767.00
	KHM	Cambodia	Asia	Southeast Asia	181035.00	1953	11168000	56.5	5121.00	5670.00
	KOR	South Korea	Asia	Eastern Asia	99434.00	1948	46844000	74.4	320749.00	442544.00
	KWT	Kuwait	Asia	Middle East	17818.00	1961	1972000	76.1	27037.00	30373.00

country 12

Apply Revert

8. จงหาชื่อประเทศที่อยู่ในภูมิภาค (Region) 'Southeast Asia' และมีประชากรมากกว่า 50 ล้านคน



The screenshot shows a SQL query editor with a query named 'city'. The query is as follows:

```
1 • SELECT Name, Population
2 FROM country
3 WHERE Region = 'Southeast Asia'
4 AND Population > 50000000;
```

The results grid displays the following data:

Name	Population
Indonesia	212107000
Philippines	75967000
Thailand	61399000
Vietnam	79832000

The interface includes a toolbar with icons for saving, running, and other database operations. The bottom status bar indicates 'country 13' and 'Read Only'.

9. จงหาชื่อประเทศที่มีอายุขัยเฉลี่ย (**LifeExpectancy**) สูงกว่า **80** ปี

Query 1 city x

Limit to 50000 rows

```
1 • SELECT Name, LifeExpectancy
2 FROM country
3 WHERE LifeExpectancy > 80;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Name	LifeExpectancy
▶	Andorra	83.5
	Japan	80.7
	Macao	81.6
	Singapore	80.1
	San Marino	81.1

country 14 x Read Only

Result Grid
Form Editor
Field Types
Query Stats
Execution Plan

10. จงหาชื่อประเทศที่ไม่มีข้อมูลปีที่ได้รับเอกราช (**IndepYear** เป็น **NULL**)

The screenshot shows a SQL query editor window titled "Query 1" with a tab labeled "city". The query text is as follows:

```
1 • SELECT Name
2   Execute the selected portion of the script or everything, if there is no selection
3 WHERE IndepYear IS NULL;
```

Below the query editor, the "Result Grid" is displayed, showing a list of countries. The first column is labeled "Name". The countries listed are:

Name
Aruba
Anguilla
Netherlands Antilles
American Samoa
Antarctica
French Southern territories
Bermuda
Bouvet Island
Cocos (Keeling) Islands
Cook Islands
Christmas Island
Cayman Islands
Western Sahara
Falkland Islands
Faroe Islands
Gibraltar
Guadeloupe
Greenland
French Guiana
Guam
Hong Kong
Heard Island and McDonal...
British Indian Ocean Territ...
Macao
Northern Mariana Islands

The interface includes a toolbar with various icons, a "Limit to 50000 rows" dropdown, and a "Filter Rows" input field. The bottom status bar indicates "country 15" and "Read Only".

11. จงหาชื่อประเทศที่มีค่า **GNP** ในปัจจุบัน มากกว่าค่า **GNP** เก่า (**GNPOld**)

SQL Query:

```
1 • SELECT Name, GNP, GNPOld
2 FROM country
3 WHERE GNP > GNPOld;
```

Result Grid:

Name	GNP	GNPOld
Aruba	828.00	793.00
Albania	3205.00	2500.00
United Arab Emirates	37966.00	36846.00
Argentina	340238.00	323310.00
Armenia	1813.00	1627.00
Antigua and Barbuda	612.00	584.00
Austria	211860.00	206025.00
Azerbaijan	4127.00	4100.00
Belgium	249704.00	243948.00
Benin	2357.00	2141.00
Burkina Faso	2425.00	2201.00
Bangladesh	32852.00	31966.00
Bulgaria	12178.00	10169.00
Bahrain	6366.00	6097.00
Bahamas	3527.00	3347.00
Belize	630.00	616.00
Bermuda	2328.00	2190.00
Bolivia	8571.00	7967.00
Barbados	2223.00	2186.00
Central African Rep...	1054.00	993.00
Switzerland	264478.00	256092.00
China	982268.00	917719.00
Côte d'Ivoire	11345.00	10285.00
Cameroon	9174.00	8596.00
Congo, The Democr...	6964.00	2474.00

12. จงแสดงภาษา (Language) ทั้งหมดที่ใช้ในรหัสประเทศ 'USA'

Query 1 city

Limit to 50000 rows

```
1 • SELECT Language
2 FROM countrylanguage
3 WHERE CountryCode = 'USA';
```

Result Grid

Language
Chinese
English
French
German
Italian
Japanese
Korean
Polish
Portuguese
Spanish
Tagalog
Vietnamese

countrylanguage 17 x Read Only

Form Editor
Field Types
Query Stats
Execution Plan

13. จงหาภาษาที่เป็นภาษาทางการ (IsOfficial = 'T')

Query 1 city

Limit to 50000 rows

```
1 • SELECT *
2 FROM countrylanguage
3 WHERE IsOfficial = 'T';
```

Result Grid

	CountryCode	Language	IsOfficial	Percentage
▶	ABW	Dutch	T	5.3
	AFG	Dari	T	32.1
	AFG	Pashto	T	52.4
	AIA	English	T	0.0
	ALB	Albaniana	T	97.9
	AND	Catalan	T	32.3
	ANT	Dutch	T	0.0
	ANT	Papiamento	T	86.2
	ARE	Arabic	T	42.0
	ARG	Spanish	T	96.8
	ARM	Armenian	T	93.4
	ASM	English	T	3.1
	ASM	Samoan	T	90.6
	ATG	English	T	0.0
	AUS	English	T	81.2
	AUT	German	T	92.0
	AZE	Azerbaijani	T	89.0
	BDI	French	T	0.0
	BDI	Kirundi	T	98.1
	BEL	Dutch	T	59.2
	BEL	French	T	32.6
	BEL	German	T	1.0
	BGD	Bengali	T	97.7
	BGR	Bulgariana	T	83.2
	BHR	Arabic	T	67.7

countrylanguage 18

Apply Revert

14. จงหาภาษาที่มีสัดส่วนการใช้ (Percentage) มากกว่า 50% ขึ้นไป

Query 1 city

Limit to 50000 rows

```
1 • SELECT *
2 FROM countrylanguage
3 WHERE Percentage > 50;
```

Result Grid

	CountryCode	Language	IsOfficial	Percentage
▶	ABW	Papiamentu	F	76.7
	AFG	Pashto	T	52.4
	ALB	Albaniana	T	97.9
	ANT	Papiamentu	T	86.2
	ARG	Spanish	T	96.8
	ARM	Armenian	T	93.4
	ASM	Samoan	T	90.6
	ATG	Creole English	F	95.7
	AUS	English	T	81.2
	AUT	German	T	92.0
	AZE	Azerbaijani	T	89.0
	BDI	Kirundi	T	98.1
	BEL	Dutch	T	59.2
	BFA	Mossi	F	50.2
	BGD	Bengali	T	97.7
	BGR	Bulgariana	T	83.2
	BHR	Arabic	T	67.7
	BHS	Creole English	F	89.7
	BIH	Serbo-Croatian	T	99.2
	BLR	Belorussian	T	65.6
	BLZ	English	T	50.8
	BMU	English	T	100.0
	BOL	Spanish	T	87.7
	BRA	Portuguese	T	97.5
	BRB	Bajan	F	95.1

countrylanguage 19 x

Apply Revert

15. จงหาภาษาที่ไม่ใช่ภาษาทางการ (**IsOfficial = 'F'**) แต่มีสัดส่วนการใช้มากกว่า **30%**

Query 1 city

Limit to 50000 rows

```
1 • SELECT *
2 FROM countrylanguage
3 WHERE IsOfficial = 'F'
4 AND Percentage > 30;
```

Result Grid

	CountryCode	Language	IsOfficial	Percentage
▶	ABW	Papiamentu	F	76.7
	AGO	Ovimbundu	F	37.2
	AND	Spanish	F	44.6
	ATG	Creole English	F	95.7
	BEN	Fon	F	39.8
	BFA	Mossi	F	50.2
	BHS	Creole English	F	89.7
	BLZ	Spanish	F	31.6
	BRB	Bajan	F	95.1
	BTN	Nepali	F	34.8
	BWA	Tswana	F	75.5
	COG	Kongo	F	51.5
	CPV	Crioulo	F	100.0
	DJI	Afar	F	34.8
	DJI	Somali	F	43.9
	DMA	Creole English	F	100.0
	ERI	Tigre	F	31.7
	ETH	Oromo	F	31.0
	FJI	Hindi	F	43.7
	FSM	Trukese	F	41.6
	GAB	Fang	F	35.8
	GHA	Akan	F	52.4
	GIN	Ful	F	38.6
	GLP	Creole French	F	95.0
	GMB	Malinke	F	34.1

countrylanguage 20

Apply Revert