

# Assignment 5

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# 1. ดึงข้อมูลทุกคอลัมเนื่องจากตาราง city

The screenshot shows the MySQL Workbench interface with a query editor and a results grid.

Query Editor:

```
1 •  SELECT * FROM city;
```

Results Grid:

ID	Name	CountryCode	District	Population
1	Kabul	AFG	Kabul	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

Toolbar icons include: folder, file, lightning, magnifying glass, search, refresh, export, and others. A sidebar on the right lists: Result Grid (selected), Form Editor, Field Types, Query Stats, and Execution Plan.

## 2. แสดงชื่อเมือง (Name) และเขตการปกครอง (District) ของทุกเมือง

Query 1 ×

1 • `SELECT Name, District FROM city;`

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

Name	District
Kabul	Kabul
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-Hertogen...	Noord-Brabant
Amersfoort	Utrecht
Maastricht	Limburg
Dordrecht	Zuid-Holland
Leiden	Zuid-Holland
Haarlemmerm...	Noord-Holland

city 6 × Read Only

Output:

Result Grid Form Editor Field Types Query Stats Execution Plan

### 3. หาเมืองที่อยู่ในรหัสประเทศไทย (CountryCode) เป็น 'THA'

The screenshot shows the MySQL Workbench interface with a query editor and a results grid.

**Query Editor:**

```
Query 1
1 •  SELECT * FROM city WHERE CountryCode = 'THA';
2
```

**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

**Toolbar:** Result Grid, Form Editor, Field Types, Query Stats, Execution Plan.

**Status Bar:** city 7

## 4. หาเมืองที่มีจำนวนประชากรมากกว่า 1,000,000 คน

Query 1

```
1 •  SELECT * FROM city WHERE Population > 1000000;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

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	Brasília	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 8

## 5. หาเมืองที่มีรหัสประเทศเป็น 'BEL' และมีประชากรมากกว่า 2,000,000 คน

The screenshot shows a database query interface with the following details:

- Query Editor:** A window titled "Query 1" containing the SQL query:

```
1 •   SELECT * FROM city WHERE CountryCode = 'BEL' AND Population > 2000000;
```
- Result Grid:** A table titled "Result Grid" showing the results of the query. The table has columns: ID, Name, CountryCode, District, and Population. There is one row with all values set to NULL.
- Toolbar:** Includes icons for file operations, search, and export, along with a "Limit to 5000 rows" dropdown.
- Right Sidebar:** A vertical toolbar with icons and labels: "Result Grid" (selected), "Form Editor", "Field Types", "Query Stats", and "Execution Plan".
- Status Bar:** At the bottom, it says "city 11" and "Apply".

## 6. แสดงชื่อประเทศ (Name) และทวีป (Continent)

Query 1

```
1 •  SELECT Name, Continent 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 12

Output: Read Only

Result Grid | Form Editor | Field Types | Query Stats | Execution Plan

## 7. หาข้อมูลของประเทศที่อยู่ในทวีป 'Asia'

Query 1

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

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

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

country 13

Apply

Result Grid | Form Editor | Field Types | Query Stats | Execution Plan

## 8. ชาติประเทศที่อยู่ในภูมิภาค 'Southeast Asia' และมีประชากรมากกว่า 50 ล้านคน

The screenshot shows a database query interface with the following details:

**Query 1**

```
SELECT * FROM country WHERE Region = 'Southeast Asia' AND Population > 50000000;
```

**Result Grid**

	Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy	GNP	GNPold	LocalName	GovernmentForm
▶	IDN	Indonesia	Asia	Southeast Asia	1904569.00	1945	212107000	68.0	84982.00	215002.00	Indonesia	Republic
	PHL	Philippines	Asia	Southeast Asia	300000.00	1946	75967000	67.5	65107.00	82239.00	Pilipinas	Republic
	THA	Thailand	Asia	Southeast Asia	513115.00	1350	61399000	68.6	116416.00	153907.00	Prathet Thai	Constitutional Monarchy
*	VNM	Vietnam	Asia	Southeast Asia	331689.00	1945	79832000	69.3	21929.00	22834.00	Việt Nam	Socialistic Republic
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**Execution Plan**

## 9. หาชื่อประเทศที่มีอายุขัยเฉลี่ย (LifeExpectancy) ต่ำกว่า 80 ปี

Query 1 x

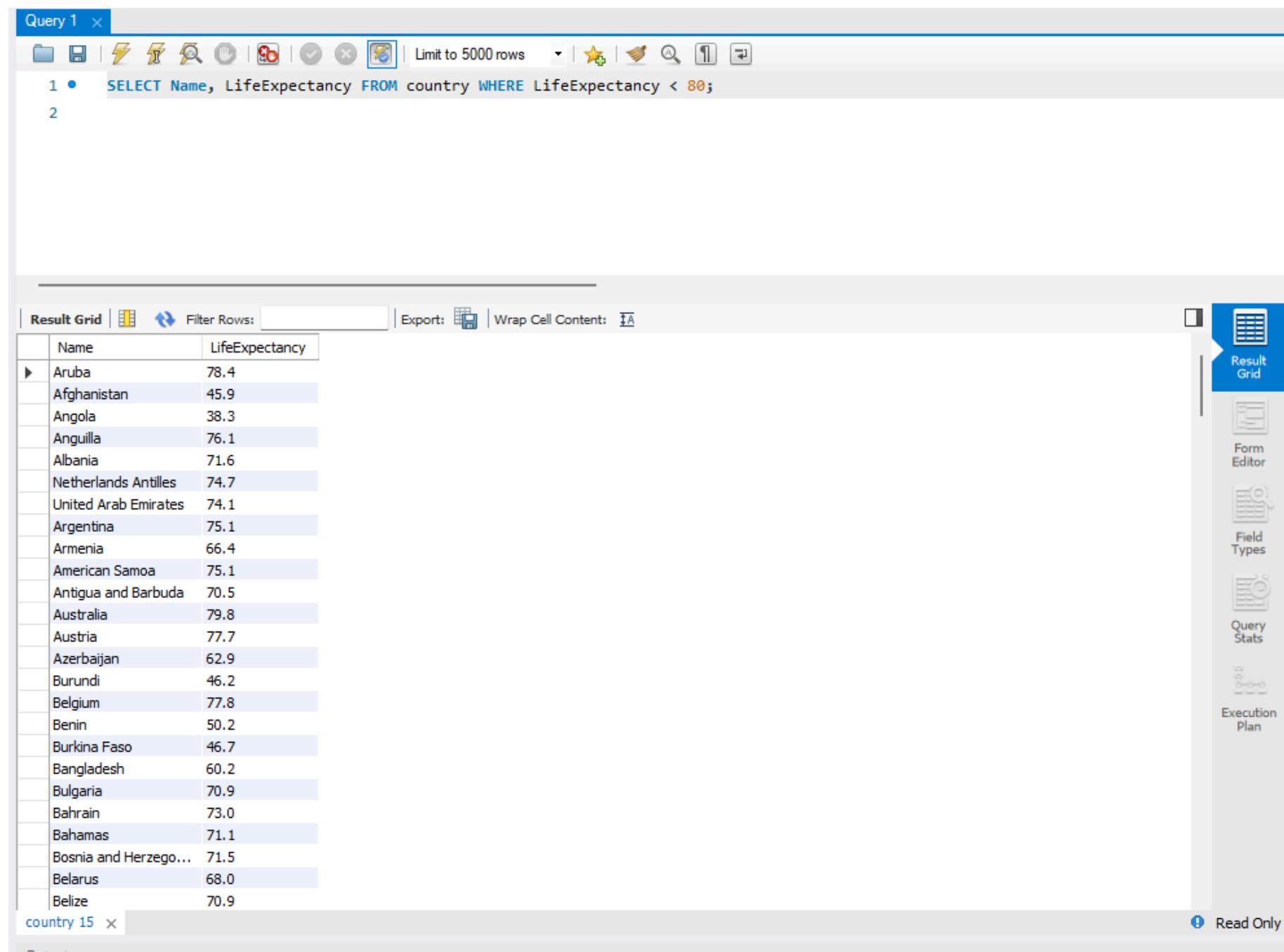
```
1 •  SELECT Name, LifeExpectancy FROM country WHERE LifeExpectancy < 80;
```

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

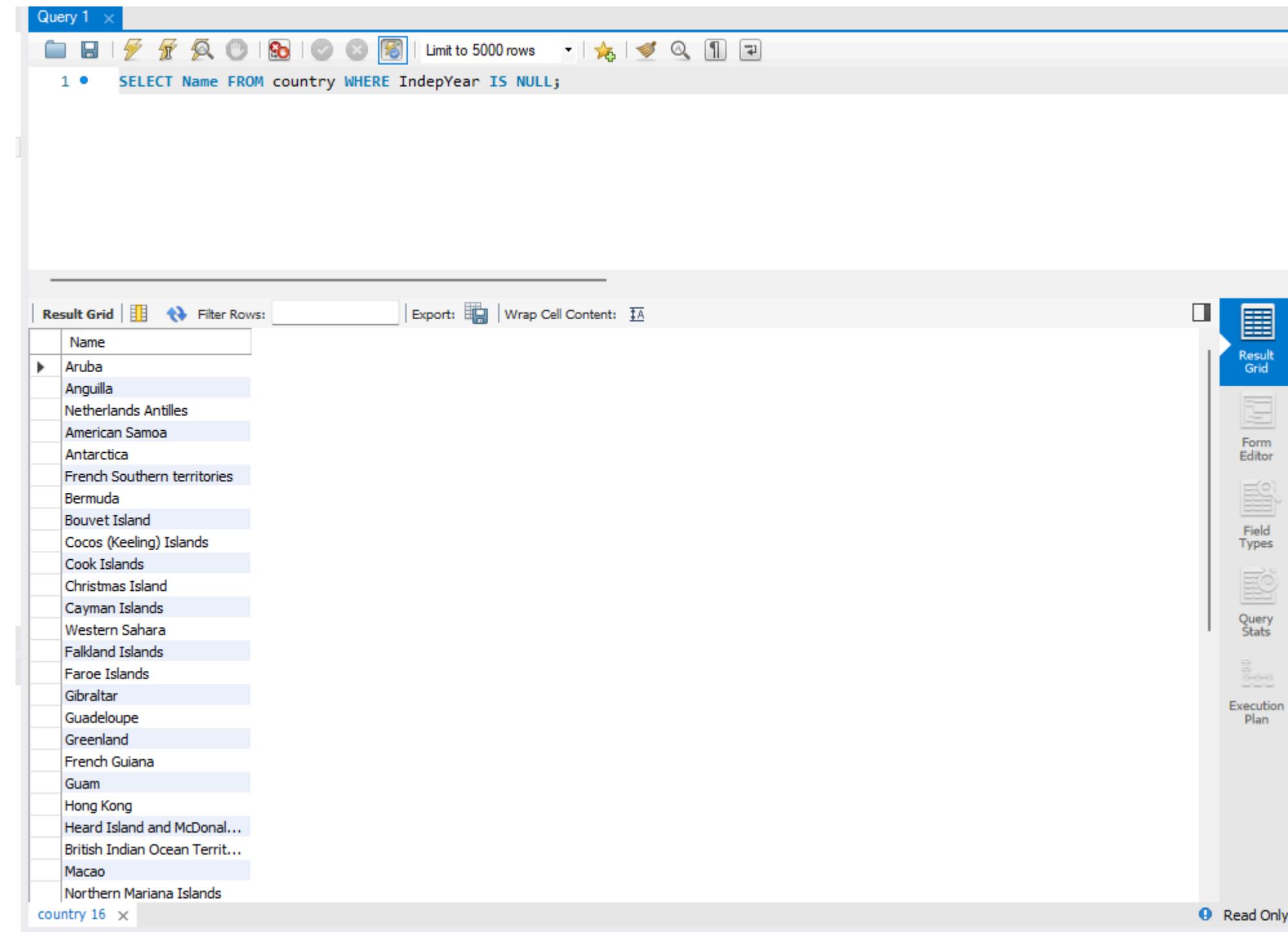
Name	LifeExpectancy
Aruba	78.4
Afghanistan	45.9
Angola	38.3
Anguilla	76.1
Albania	71.6
Netherlands Antilles	74.7
United Arab Emirates	74.1
Argentina	75.1
Armenia	66.4
American Samoa	75.1
Antigua and Barbuda	70.5
Australia	79.8
Austria	77.7
Azerbaijan	62.9
Burundi	46.2
Belgium	77.8
Benin	50.2
Burkina Faso	46.7
Bangladesh	60.2
Bulgaria	70.9
Bahrain	73.0
Bahamas	71.1
Bosnia and Herzego...	71.5
Belarus	68.0
Belize	70.9

country 15 x

Result Grid Form Editor Field Types Query Stats Execution Plan Read Only



## 10. หาชื่อประเทศที่ไม่มีข้อมูลปีที่ได้รับเอกราช (IndepYear เป็น NULL)



The screenshot shows the MySQL Workbench interface with a query editor titled "Query 1". The query is:

```
1 •  SELECT Name FROM country WHERE IndepYear IS NULL;
```

The results grid displays the names of countries that have an independent year of null:

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 McDonald Islands
British Indian Ocean Territory
Macao
Northern Mariana Islands

The interface includes a toolbar at the top with various icons for database management, and a sidebar on the right with options like "Result Grid", "Form Editor", "Field Types", "Query Stats", and "Execution Plan". A "Read Only" status indicator is visible at the bottom right.

# 11. หาชื่อประเทศที่มีค่า GNP ปัจจุบันมากกว่าค่า GNP เก่า (GNPOld)

Query 1

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

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

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

country 17

Output: Read Only

Result Grid | Form Editor | Field Types | Query Stats | Execution Plan

## 12. แสดงภาษาทั้งหมดที่ใช้ในประเทศสหรัฐอเมริกา 'USA'

The screenshot shows the MySQL Workbench interface with a query editor and a results grid.

**Query Editor:**

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

**Result Grid:**

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

**Toolbar:** Result Grid, Filter Rows, Export, Wrap Cell Content.

**Right Sidebar:**

- Result Grid
- Form Editor
- Field Types
- Query Stats
- Execution Plan

**Status Bar:** countrylanguage 18 x, Read Only

### 13. หาภาษาที่เป็นภาษาทางการ (IsOfficial = 'T')

Query 1 ×

1   SELECT \*  
2   FROM countrylanguage  
3   WHERE IsOfficial = 'T';  
4

Result Grid | Filter Rows: \_\_\_\_\_ | Edit: | Export/Import: | Wrap Cell Content: |

	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 19 ×

Output : Apply

Result Grid | Form Editor | Field Types | Query Stats | Execution Plan

## 14. ภาษาที่มีสัดส่วนการใช้ (Percentage) มากกว่า 50%

Query 1

```
1 •  SELECT *
2   FROM countrylanguage
3  WHERE Percentage > 50;
4
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content:

	CountryCode	Language	IsOfficial	Percentage
▶	ABW	Papiamento	F	76.7
	AFG	Pashto	T	52.4
	ALB	Albaniana	T	97.9
	ANT	Papiamento	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 20 × Apply

Output

## 15. ชาติที่ไม่ใช้ภาษาทางการ (`IsOfficial = 'F'`) และมีสัดส่วนการใช้มากกว่า 30%

Query 1

```
1 •  SELECT *
2   FROM countrylanguage
3  WHERE IsOfficial = 'F'
4    AND Percentage > 30;
5
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types | Query Stats | Execution Plan

CountryCode	Language	IsOfficial	Percentage
ABW	Papiamento	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 22

Output: