

INSTITUTO TECNOLÓGICO DE NUEVO LAREDO



Trabajo: EJERCICIOS BASES DE DATOS – MySQL

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Evidencias de los ejercicios

Numero 1

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Filter objects

bdbasesdedatosjugadores

Tables

jugadores

Views

Stored Procedures

Functions

sakila

sys

world

Tables

city

country

countrylanguage

Views

Stored Procedures

Functions

Administration Schemas

Information

Table: country

Query 1 city

Limit to 1000 rows

```
1 • select CL.countrycode,C.name as COUNTRYNAME,
2 language, Percentage,continent,city.Name as CITYNAME
3 from countrylanguage as CL
4 inner join country as C on (C.code = CL.countrycode)
5 join city on (city.CountryCode = CL.CountryCode)
6 where language = 'English' and continent = 'Asia'
7 order by C.name
```

Result Grid

	countrycode	COUNTRYNAME	language	Percentage	continent	CITYNAME
▶	BHR	Bahrain	English	0.0	Asia	al-Manama
	BRN	Brunei	English	3.1	Asia	Bandar Seri Begawan
	HKG	Hong Kong	English	2.2	Asia	Kowloon and New Kowloon
	HKG	Hong Kong	English	2.2	Asia	Victoria
	JPN	Japan	English	0.1	Asia	Tokyo
	JPN	Japan	English	0.1	Asia	Jokohama [Yokohama]
	JPN	Japan	English	0.1	Asia	Osaka
	JPN	Japan	English	0.1	Asia	Nagoya
	JPN	Japan	English	0.1	Asia	Sapporo
	JPN	Japan	English	0.1	Asia	Kioto
	JPN	Japan	English	0.1	Asia	Kobe

Numero 2

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

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 - Functions
- sakila
- sys
- world**
 - Tables
 - city
 - country
 - countrylanguage
 - Views
 - Stored Procedures
 - Functions

Administration Schemas

Information

Table: **country**

Query 1 city x

Limit to 1000 rows

```
1 • select * from city
2
```

Result 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	157463

Numero 3

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

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 - Functions

Administration Schemas

Information

Table: **country**

Query 1 city

Limit to 1000 rows

```
1 • select name,population from city where population between 200000 and 250000
2
```

Result Grid

	name	population
▶	Qandahar	237500
	Utrecht	234323
	Eindhoven	201843
	Annaba	222518
	al-Ayn	225970
	San Miguel	248700
	BahÁ-a Blanca	239810
	Esteban EcheverrÁ-a	235760
	Resistencia	229212
	JosÁ© C. Paz	221754
	ParanÁi	207041
	Godoy Cruz	206998
	Posadas	201273
	GuaymallÁn	200505

Numero 4

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: city

SCHEMAS

Filter objects

- bdbasesdedatosjugadores
 - Tables
 - jugadores
 - Views
 - Stored Procedures
 - Functions
- sakila
- sys
- world**
 - Tables
 - city
 - country
 - countrylanguage
 - Views
 - Stored Procedures
 - Functions

Administration Schemas

Information

Table: country

Query 1

```
select * from city where name like 'B%'
```

Limit to 1000 rows

Result Grid

	ID	Name	CountryCode	District	Population
▶	12	Breda	NLD	Noord-Brabant	160398
	39	Batna	DZA	Batna	183377
	43	Biskra	DZA	Biskra	128281
	44	Blida (el-Boulaida)	DZA	Blida	127284
	45	BÃ©jaÃ~a	DZA	BÃ©jaÃ~a	117162
	49	BÃ©char	DZA	BÃ©char	107311
	59	Benguela	AGO	Benguela	128300
	69	Buenos Aires	ARG	Distrito Federal	2982146
	93	Berazategui	ARG	Buenos Aires	276916
	96	BahÃ-a Blanca	ARG	Buenos Aires	239810
	132	Brisbane	AUS	Queensland	1291117
	144	Baku	AZE	Baki	1787800
	157	Barisal	BGD	Barisal	170232
	163	Bogra	BGD	Dakshin	120170

Numero 5

MySQL Workbench

Local instance MySQL80

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Navigator

SCHEMAS

Filter objects

bdbasesdedatosjugadores

Tables

jugadores

Views

Stored Procedures

Functions

sakila

sys

world

Tables

city

country

countrylanguage

Views

Stored Procedures

Functions

Administration Schemas

Information

Table: country

Query 1 city

Limit to 1000 rows

```
1 • select * from city where name like '%B%' order by name desc
2 |
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	ID	Name	CountryCode	District	Population
▶	698	[San Cristóbal de] la Laguna	ESP	Canary Islands	127945
	1921	Zibo	CHN	Shandong	1140000
	3308	Zanzibar	TZA	Zanzibar West	157634
	770	Zamboanga	PHL	Western Mindanao	601794
	2409	Zagreb	HRV	Grad Zagreb	706770
	2947	Zabrze	POL	Slaskie	200177
	1437	Zabol	IRN	Sistan va Baluchesta	100887
	2038	Yibin	CHN	Sichuan	241019
	3190	Yanbu	SAU	Medina	119800
	729	Wonderboom	ZAF	Gauteng	283289
	3128	Wolfsburg	DEU	Niedersachsen	121954
	530	Woking/Byfleet	GBR	England	92000
	744	Witbank	ZAF	Mpumalanga	167183
	3000	Wiesbaden	DEU	Hessen	268716

Numero 6

MySQL Workbench

Local instance MySQL80 x

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Navigator: Schemas

Filter objects

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city

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countrylanguage

Views

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Functions

Administration Schemas

Information

Table: country

Query 1 city

Limit to 1000 rows

1 • select * from city where name like '%B%' order by name asc

2 Execute the selected portion of the script or everything, if there is no selection

3

4

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

	ID	Name	CountryCode	District	Population
▶	3318	Aalborg	DNK	Nordjylland	161161
	2760	Aba	NGA	Imo & Abia	298900
	1404	Abadan	IRN	Khuzestan	206073
	395	Abaetetuba	BRA	ParÁi	111258
	3683	Abakan	RUS	Hakassia	169200
	1849	Abbotsford	CAN	British Colombia	105403
	2747	Abeokuta	NGA	Ogun	427400
	478	Aberdeen	GBR	Scotland	213070
	3191	Abha	SAU	Asir	112300
	2812	Abidjan	CIV	Abidjan	2500000
	1703	Abiko	JPN	Chiba	126670
	3989	Abilene	USA	Texas	115930
	1309	Abohar	IND	Punjab	107163
	2866	Ahmedabad	IND	Gujarat	106000

Numero 7

MySQL Workbench

Local instance MySQL80 x

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Navigator: Schemas

Filter objects

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Functions

sakila

sys

world

Tables

city

country

Query 1 city

Limit to 1000 rows

1 • select * from city where countrycode = 'MEX' and name = 'NUEVO LAREDO'

2

3

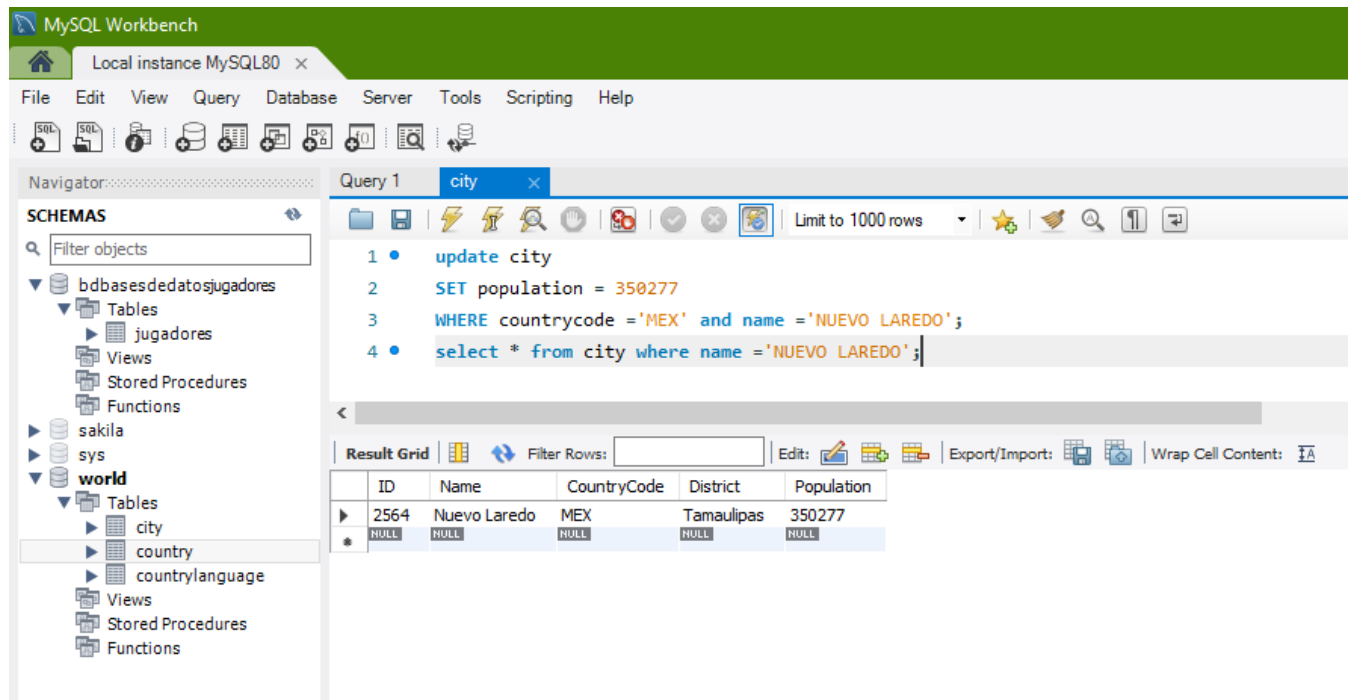
Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

	ID	Name	CountryCode	District	Population
▶	2564	Nuevo Laredo	MEX	Tamaulipas	310277
*	NULL	NULL	NULL	NULL	NULL

Numero 8



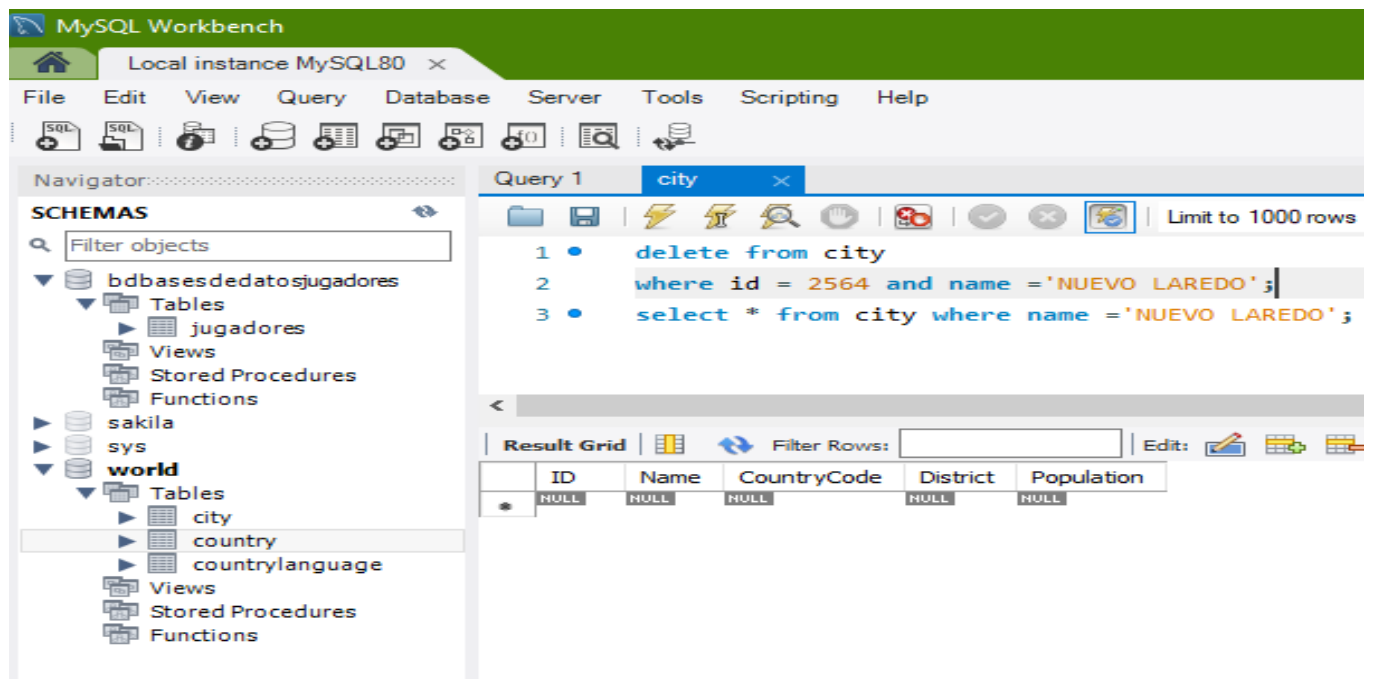
MySQL Workbench interface showing a query execution. The query is:

```
1 • update city
2   SET population = 350277
3   WHERE countrycode = 'MEX' and name = 'NUEVO LAREDO';
4 • select * from city where name = 'NUEVO LAREDO';
```

The result grid shows the following data:

ID	Name	CountryCode	District	Population
2564	Nuevo Laredo	MEX	Tamaulipas	350277
*	NULL	NULL	NULL	NULL

Numero 9



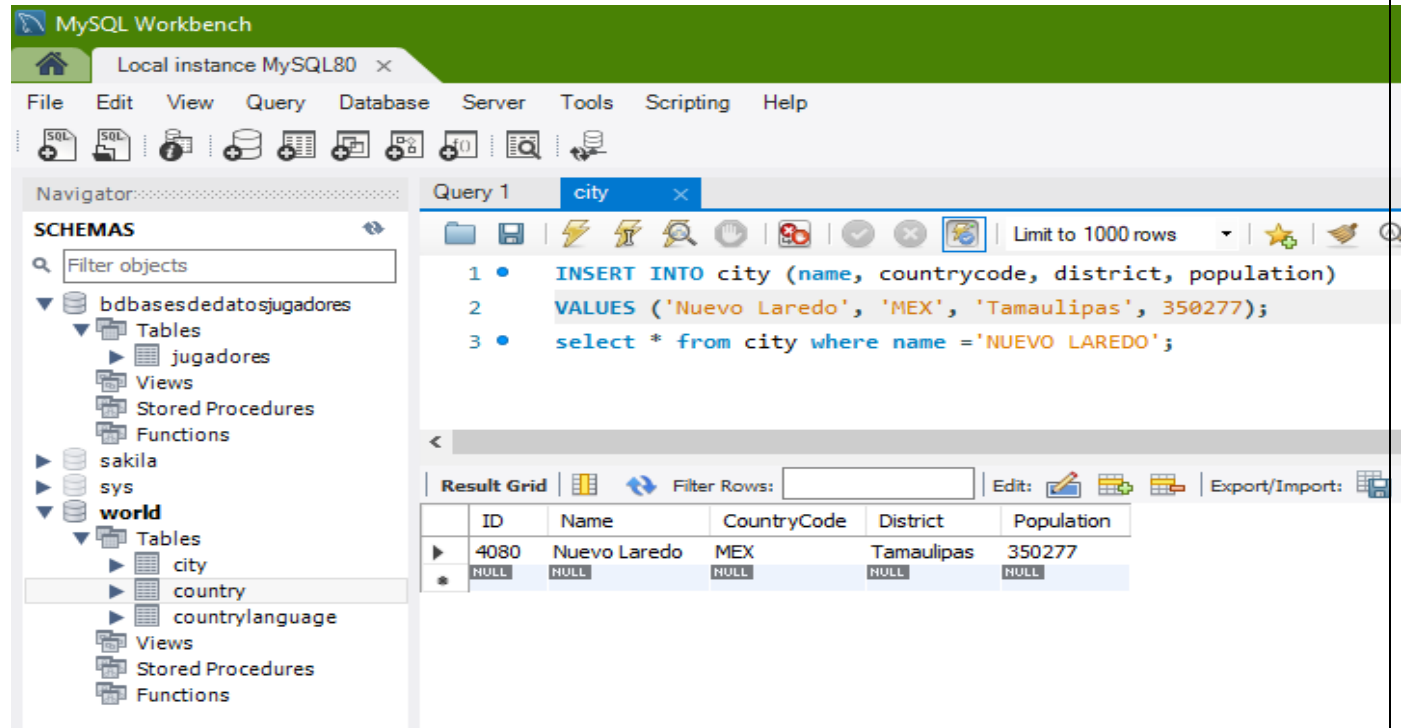
MySQL Workbench interface showing a query execution. The query is:

```
1 • delete from city
2   where id = 2564 and name = 'NUEVO LAREDO';
3 • select * from city where name = 'NUEVO LAREDO';
```

The result grid shows the following data:

ID	Name	CountryCode	District	Population
*	NULL	NULL	NULL	NULL

Numero 10



The screenshot shows the MySQL Workbench interface. On the left, the 'Navigator' pane displays the 'world' database schema with tables like 'city', 'country', and 'countrylanguage'. The 'city' table is selected. The main query editor shows a query with three lines: an INSERT statement, a VALUES clause, and a SELECT statement. The 'Result Grid' pane at the bottom displays the results of the query, showing a single row for 'Nuevo Laredo' with its ID, Name, CountryCode, District, and Population.

```
1 • INSERT INTO city (name, countrycode, district, population)
2 • VALUES ('Nuevo Laredo', 'MEX', 'Tamaulipas', 350277);
3 • select * from city where name = 'NUEVO LAREDO';
```

ID	Name	CountryCode	District	Population
4080	Nuevo Laredo	MEX	Tamaulipas	350277
*	NULL	NULL	NULL	NULL

Conclusiones

En conclusión podemos destacar que en este lenguaje es mas sencillo utilizar ciertas clausulas como el “where” para hacer una decisión y poder consultar en una base de datos y finalmente pues la condicion , el “AS” para darle un sobre nombre al nombre las columnas resulta muy útil al momento de codificar nuevamente. El “Insert” nos ayuda a rellenar un registro de una manera mas sencilla, y de hecho así se podría rellenar directamente datos a la base con los datos de un usuario y al igual que el “Delete” también nos ayuda de manera mas sencilla a eliminar un registro de manera rápida, pero se debe de utilizar de manera cuidadosa porque si no se especifica bien se borran todos los datos de la base de datos, del “Update” que nos ayuda a actualizar un registro con nuevos datos en una tabla, y finalmente el “Select” que nos ayuda a seleccionar toda la tabla, campos o un registro en especifico de una tabla o un registro con cierto campo de cierta tabla. En conclusión puedo decir que estas sentencias nos ayudan demasiado a agilizar la búsqueda de datos, ya sea para buscar y actualizar o simplemente buscar y eliminar ese dato en la tabla; las sentencias se vuelven mas sencillas o mas lógicas cuando practicas mas de 3 ejercicios.