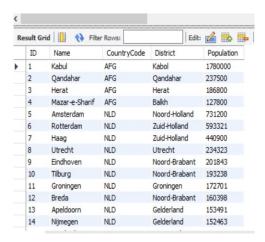**Tecnicatura Superior en Programación**
Ing. Gerardo Magni
Laboratorio de Programación 3
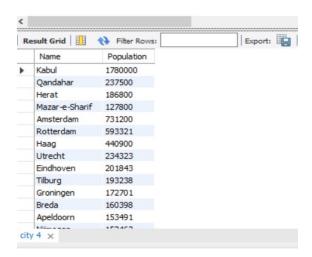**Trabajo Practico – Manejo de Base de Datos / SQL**

Estudiante: German Dartsch

1-

```
1    SELECT * FROM city;
```

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

2-

```
1    SELECT Name, Population FROM city;
```

Name	Population
Kabul	1780000
Qandahar	237500
Herat	186800
Mazar-e-Sharif	127800
Amsterdam	731200
Rotterdam	593321
Haag	440900
Utrecht	234323
Eindhoven	201843
Tilburg	193238
Groningen	172701
Breda	160398
Apeldoorn	153491

city 4 ×

3-

```sql
1    SELECT Name, Population FROM city LIMIT 10;
```

Name	Population
Kabul	1780000
Qandahar	237500
Herat	186800
Mazar-e-Sharif	127800
Amsterdam	731200
Rotterdam	593321
Haag	440900
Utrecht	234323
Eindhoven	201843
Tilburg	193238

4-
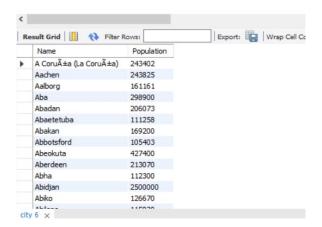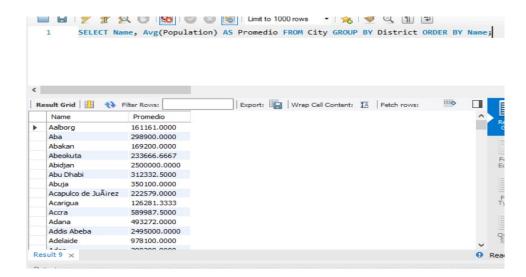
```sql
1    SELECT Name, Population FROM city ORDER BY Name;
```

Name	Population
A CoruÃ±a (La CoruÃ±a)	243402
Aachen	243825
Aalborg	161161
Aba	298900
Abadan	206073
Abaetetuba	111258
Abakan	169200
Abbotsford	105403
Abeokuta	427400
Aberdeen	213070
Abha	112300
Abidjan	2500000
Abiko	126670

5-

```sql
1    SELECT Name, Avg(Population) AS Promedio FROM City GROUP BY District ORDER BY Name;
```

Name	Promedio
Aalborg	161161.0000
Aba	298900.0000
Abakan	169200.0000
Abeokuta	233666.6667
Abidjan	2500000.0000
Abu Dhabi	312332.5000
Abuja	350100.0000
Acapulco de JuÃ¡rez	222579.0000
Acarigua	126281.3333
Accra	589987.5000
Adana	493272.0000
Addis Abeba	2495000.0000
Adelaide	978100.0000

6-

```sql
SELECT CountryCode, SUM(Population) AS Poblacion FROM City GROUP BY CountryCode;
```

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

CountryCode	Poblacion
AFG	2332100
NLD	5180049
ANT	2345
ALB	270000
DZA	5192179
ASM	7523
AND	21189
AGO	2561600
AIA	1556
ATG	24000
ARE	1728336
ARG	19996563
ARM	1633100

Result 11

7-

```sql
SELECT Name, Population FROM City WHERE Population > 100000;
```

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

Name	Population
Kabul	1780000
Qandahar	237500
Herat	186800
Mazar-e-Sharif	127800
Amsterdam	731200
Rotterdam	593321
Haag	440900
Utrecht	234323
Eindhoven	201843
Tilburg	193238
Groningen	172701
Breda	160398
Apeldoorn	153491

City 13

8-

```
1    SELECT Name, Population FROM City WHERE Population < 100000;
```

Name	Population
Delft	95268
Heerlen	95052
Alkmaar	92713
Willemstad	2345
Ech-Chleff (el-Asnam)	96794
GhardaÃ¯a	89415
Tafuna	5200
Fagatogo	2323
Andorra la Vella	21189
South Hill	961
The Valley	595
Saint JohnÂ´s	24000
Ezeiza	99578

9-

```
1    SELECT Name, Population FROM City WHERE Population BETWEEN 100000 AND 10000000;
```

Name	Population
Kabul	1780000
Qandahar	237500
Herat	186800
Mazar-e-Sharif	127800
Amsterdam	731200
Rotterdam	593321
Haag	440900
Utrecht	234323
Eindhoven	201843
Tilburg	193238
Groningen	172701
Breda	160398
Apeldoorn	153491

City 15 ×

10-

```
1    SELECT Name, CountryCode FROM City WHERE CountryCode='NLD';
```

Name	CountryCode
Amsterdam	NLD
Rotterdam	NLD
Haag	NLD
Utrecht	NLD
Eindhoven	NLD
Tilburg	NLD
Groningen	NLD
Breda	NLD
Apeldoorn	NLD
Nijmegen	NLD
Enschede	NLD
Haarlem	NLD
Almere	NLD

11-

```
1    SELECT Name, CountryCode FROM City WHERE CountryCode='AFG'
2    OR CountryCode='CAN' OR CountryCode='MEX';
```

Name	CountryCode
Kabul	AFG
Qandahar	AFG
Herat	AFG
Mazar-e-Sharif	AFG
MontrÃ©al	CAN
Calgary	CAN
Toronto	CAN
North York	CAN
Winnipeg	CAN
Edmonton	CAN
Mississauga	CAN
Scarborough	CAN
Vancouver	CAN

City 18 ×

12-

```
1 • SELECT Name, CountryCode FROM City WHERE Name LIKE 'P%';
```

Name	CountryCode
ParanÃi	ARG
Posadas	ARG
Pilar	ARG
Perth	AUS
Pabna	BGD
Porto-Novo	BEN
Parakou	BEN
PotosÃ-	BOL
Porto Alegre	BRA
Piracicaba	BRA
Pelotas	BRA
Porto Velho	BRA
PetrÃ³polis	BRA

City 19 ×

13-

```
1 • SELECT Name, CountryCode FROM City WHERE Name LIKE '%P';
```

Name	CountryCode
Klerksdorp	ZAF
Krugersdorp	ZAF
Midsayap	PHL
Cilacap	IDN
Citeureup	IDN
Raurkela Civil Township	IND
Navadwip	IND
Siem Reap	KHM
Chong-up	KOR
Ugep	NGA
Bottrop	DEU
Gaziantep	TUR
Konotop	UKR

City 20 ×

14-

```sql
1 • SELECT Name, CountryCode FROM City WHERE Name LIKE '%MA%';
```

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

Name	CountryCode
Mazar-e-Sharif	AFG
Maastricht	NLD
Alkmaar	NLD
Ajman	ARE
La Matanza	ARG
Lomas de Zamora	ARG
Mar del Plata	ARG
San Miguel de TucumÃin	ARG
General San MartÃ-n	ARG
Malvinas Argentinas	ARG
GuaymallÃ©n	ARG
al-Manama	BHR
Brahmanbaria	BGD

City 21 ×

15-

```sql
1 • SELECT SUM(Population) AS Poblacion_Mundial FROM City;
```

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

Poblacion_Mundial
1429647139

16-

```sql
1 • SELECT AVG(Population) AS Promedi_Poblacion_Mundial FROM City;
```

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

Promedi_Poblacion_Mundial
350317.8483

17-

```
1 •   SELECT Count(*) AS Total_Registros FROM City;
```

Total_Registros
4081

18-

```
1 •   SELECT Max(Population) AS Max_Poblacion FROM City;
```

Max_Poblacion
10500000

19-

```
1 •   SELECT Min(Population) AS Min_Poblacion FROM City;
```

Min_Poblacion
42

20-

```
1    INSERT INTO City (Name, CountryCode, District, Population)
2    VALUES ('TUNUYAN', 'ARG', 'Mendoza', '110000');
```

21-

```
Limit to 1000 rows
1    INSERT INTO country (Name, Code)
2    VALUES ('mendoza', 'MZA');
3    INSERT INTO country (Capital)
4    SELECT Name FROM city WHERE Name='TUNUYAN';
```

22-

```
1    UPDATE city SET Name = 'TUPUNGATO' WHERE Name = 'TUNUYAN';
```

23-

```
1    UPDATE countrylanguage SET Language = 'espaniol' WHERE Language = 'SPANISH';
```

24-

```
1    DELETE FROM country WHERE Name = 'mendoza';
```

25-

```
1    DELETE FROM city WHERE Name = 'TUPUNGATO';
```

26-

```
1 •    SELECT city.Name, District FROM city, country WHERE city.Name = 'Buenos Aires'
2      OR country.Name = 'Buenos Aires';
```

Name	District
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal
Buenos Aires	Distrito Federal

27-

```
1 •    SELECT city.Name, country.Name, District, language FROM city, country, countrylanguage
2      WHERE city.CountryCode = 'ARG' AND countrylanguage.CountryCode = 'ARG';
```

Name	Name	District	language
Buenos Aires	mendoza	Distrito Federal	Indian Languages
Buenos Aires	mendoza	Distrito Federal	Italian
Buenos Aires	mendoza	Distrito Federal	Spanish
Buenos Aires	Zimbabwe	Distrito Federal	Indian Languages
Buenos Aires	Zimbabwe	Distrito Federal	Italian
Buenos Aires	Zimbabwe	Distrito Federal	Spanish
Buenos Aires	Zambia	Distrito Federal	Indian Languages
Buenos Aires	Zambia	Distrito Federal	Italian
Buenos Aires	Zambia	Distrito Federal	Spanish
Buenos Aires	South Africa	Distrito Federal	Indian Languages

28-

```
1 •    SELECT * FROM city c INNER JOIN country co INNER JOIN countrylanguage cl
2      ON c.CountryCode = co.Code AND c.CountryCode = cl.CountryCode
```

ID	Name	CountryCode	District	Population	Code	Name	Continent	Region
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Contra

29-

```
1 •    SELECT * FROM city c INNER JOIN country co INNER JOIN countrylanguage cl
2      ON c.CountryCode = co.Code AND c.CountryCode = cl.CountryCode WHERE co.Code = 'ARG'
```

ID	Name	CountryCode	District	Population	Code	Name	Continent	Region
69	Buenos Aires	ARG	Distrito Federal	2982146	ARG	Argentina	South America	South Ame
69	Buenos Aires	ARG	Distrito Federal	2982146	ARG	Argentina	South America	South Ame
69	Buenos Aires	ARG	Distrito Federal	2982146	ARG	Argentina	South America	South Ame
70	La Matanza	ARG	Buenos Aires	1266461	ARG	Argentina	South America	South Ame
70	La Matanza	ARG	Buenos Aires	1266461	ARG	Argentina	South America	South Ame
70	La Matanza	ARG	Buenos Aires	1266461	ARG	Argentina	South America	South Ame
71	CÃ³rdoba	ARG	CÃ³rdoba	1157507	ARG	Argentina	South America	South Ame
71	CÃ³rdoba	ARG	CÃ³rdoba	1157507	ARG	Argentina	South America	South Ame
71	CÃ³rdoba	ARG	CÃ³rdoba	1157507	ARG	Argentina	South America	South Ame

30-

```
1 •  SELECT * FROM city c INNER JOIN country co INNER JOIN countrylanguage cl
2    ON c.CountryCode = co.Code AND c.CountryCode = cl.CountryCode
3    WHERE cl.Language = 'English' OR cl.Language = 'Spanish' OR cl.Language = 'Portuguese'
4    OR co.Population > 1000000;
```

ID	Name	CountryCode	District	Population	Code	Name	Continent	Region
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
1	Kabul	AFG	Kabol	1780000	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra
2	Qandahar	AFG	Qandahar	237500	AFG	Afghanistan	Asia	Southern and Centra

31-

```
1 •  SELECT * FROM country co LEFT JOIN countrylanguage cl
2    ON co.Code = cl.CountryCode WHERE cl.IsOfficial = 'T';
```

Code	Name	Continent	Region	SurfaceArea	IndepYear	Population
ABW	Aruba	North America	Caribbean	193.00	NULL	103000
AFG	Afghanistan	Asia	Southern and Central Asia	652090.00	1919	22720000
AFG	Afghanistan	Asia	Southern and Central Asia	652090.00	1919	22720000
AIA	Anguilla	North America	Caribbean	96.00	NULL	8000
ALB	Albania	Europe	Southern Europe	28748.00	1912	3401200
AND	Andorra	Europe	Southern Europe	468.00	1278	78000
ANT	Netherlands Antilles	North America	Caribbean	800.00	NULL	217000
ANT	Netherlands Antilles	North America	Caribbean	800.00	NULL	217000
ARE	United Arab Emirates	Asia	Middle East	83600.00	1971	2441000

Result 45 ✕