

TAREA OPERADORES LOGICOS Y DE COMPARACION

Para llevar a cabo esta tarea, vamos a utilizar la tabla MaratonNY que se encuentra en la base de datos Maraton. Teniendo esto en cuenta realiza lo siguiente:

1.- Obtén el tiempo que le tomó llegar a la meta a cada una de las mujeres provenientes de NY. Muestra las columnas gender, age, home y time en los resultados y ordénalos de forma ascendente en base a los valores de la columna time

RESPUESTA:

USE Maraton

```
SELECT gender,  
        age,  
        home,  
        [time]  
FROM MaratonNY  
WHERE gender='Female' AND home='NY'  
ORDER BY [time];
```

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'PROBOOK-ROCIO (SQL Server 15.0.2000.5)'. The 'Maraton' database is expanded, showing the 'MaratonNY' table. On the right, the SQL Query window displays the following query:

```
1  
2  
3 USE Maraton  
4  
5 SELECT gender,  
6       age,  
7       home,  
8       [time]  
9 FROM MaratonNY  
10 WHERE gender='Female' AND home='NY'  
11 ORDER BY [time];  
12  
13
```

Below the query window, the Results tab shows the output of the query. The results are displayed in a table with 7 rows and 4 columns: gender, age, home, and time. The data is sorted by time in ascending order.

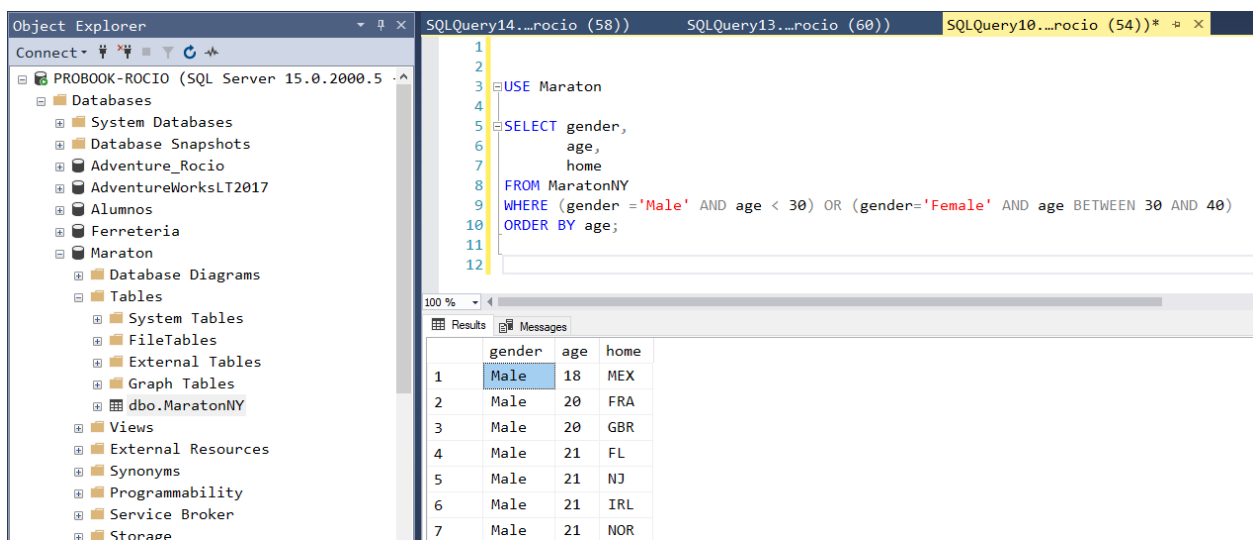
	gender	age	home	time
1	Female	26	NY	175.5333333
2	Female	35	NY	194.95
3	Female	30	NY	204.9333333
4	Female	32	NY	207.15
5	Female	23	NY	217.4833333
6	Female	31	NY	219.4333333
7	Female	30	NY	219.5

2.- Crea una lista con los hombres menores de 30 años y de las mujeres que tengan entre 30 y 40 años. Incluye las columnas gender, age y home. Ordena la lista en base a la edad

RESPUESTA:

USE Maraton

```
SELECT gender,  
        age,  
        home  
FROM MaratonNY  
WHERE (gender = 'Male' AND age < 30) OR (gender='Female' AND age BETWEEN 30 AND 40)  
ORDER BY age;
```



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'PROBOOK-ROCIO'. The 'Maraton' database is expanded, showing 'dbo.MaratonNY'. The main window displays a SQL query in the 'SQLQuery14...rocio (58)' tab. The query is as follows:

```
1  
2  
3 USE Maraton  
4  
5 SELECT gender,  
6        age,  
7        home  
8 FROM MaratonNY  
9 WHERE (gender = 'Male' AND age < 30) OR (gender='Female' AND age BETWEEN 30 AND 40)  
10 ORDER BY age;  
11  
12
```

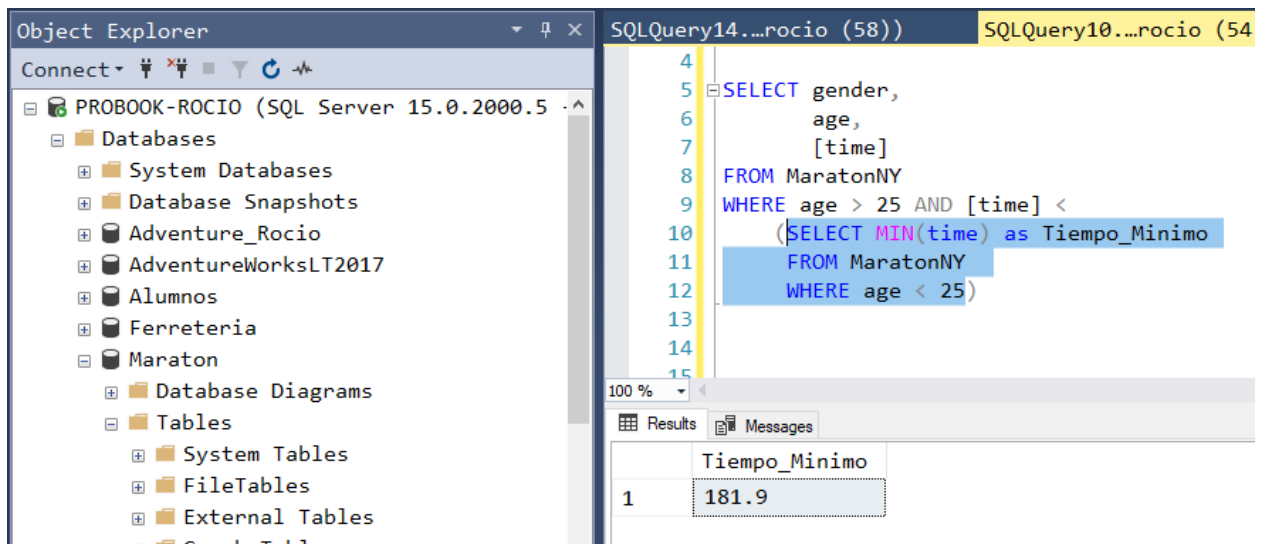
Below the query, the 'Results' pane shows the output of the query. It contains a table with 7 rows and 3 columns: 'gender', 'age', and 'home'.

	gender	age	home
1	Male	18	MEX
2	Male	20	FRA
3	Male	20	GBR
4	Male	21	FL
5	Male	21	NJ
6	Male	21	IRL
7	Male	21	NOR

3.- Realiza una subconsulta escalonada para obtener una lista de los corredores mayores de 25 años que sean mas veloces que los corredores menores de 25 años. Indica cual es el tiempo mínimo que hicieron éstos últimos y después incluye las columnas gender, age y time en tus resultados

RESPUESTA:

```
SELECT gender,  
       age,  
       [time]  
FROM MaratonNY  
WHERE age > 25 AND [time] <  
      (SELECT MIN(time) as Tiempo_Minimo  
       FROM MaratonNY  
       WHERE age < 25)
```



The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' pane shows the database structure for 'PROBOOK-ROCIO (SQL Server 15.0.2000.5)'. The 'Databases' folder is expanded, showing 'System Databases', 'Database Snapshots', 'Adventure_Rocio', 'AdventureWorksLT2017', 'Alumnos', 'Ferreteria', and 'Maraton'. The 'Maraton' database is selected, and its 'Tables' folder is expanded, showing 'System Tables', 'FileTables', 'External Tables', and 'Table'. The main pane shows the SQL query editor with the following query:




```
SELECT gender,  
       age,  
       [time]  
FROM MaratonNY  
WHERE age > 25 AND [time] <  
      (SELECT MIN(time) as Tiempo_Minimo  
       FROM MaratonNY  
       WHERE age < 25)
```

The query is executed, and the results are displayed in the 'Results' pane. The results show a single row with the following values:

	Tiempo_Minimo
1	181.9

y

Object Explorer

Connect   

PROBOOK-ROCIO (SQL Server 15.0.2000.5)

- Databases
 - System Databases
 - Database Snapshots
 - Adventure_Rocio
 - AdventureWorksLT2017
 - Alumnos
 - Ferreteria
 - Maraton
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.MaratonNY
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage

SQLQuery14....roció (58)

```
4  
5 SELECT gender,  
6     age,  
7     [time]  
8 FROM MaratonNY  
9 WHERE age > 25 AND [time] <  
10      (SELECT MIN(time) as Tiempo_Minimo  
11       FROM MaratonNY  
12       WHERE age < 25)  
13  
14  
15
```

SQLQuery10....roció (54)*

100 %

Results Messages

	gender	age	time
1	Male	37	147.3333333
2	Male	27	156
3	Male	43	157.5833333
4	Male	40	163.9333333
5	Male	35	164.5
6	Male	33	165.5166667
7	Male	29	168.1833333
8	Male	33	169.6666667

4.- Realiza una subconsulta de lista para conocer cuales hombres menores de 40 años fueron mas lentos que todas las mujeres menores de 40 años. Ordénalos de forma descendente en base a la columna age

RESPUESTA:

USE Maraton

```
SELECT gender,
       age,
       [time]
FROM MaratonNY
WHERE gender='Male' AND age < 40 AND [time] > ALL
      (SELECT [time]
       FROM MaratonNY
       WHERE gender='Female' AND age < 40)
ORDER BY age DESC
```

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the database structure for 'PROBOOK-ROCIO (SQL Server 15.0.2000.5)'. The 'Maraton' database is expanded, showing 'Tables' and 'dbo.MaratonNY'. The main window shows a SQL query in the 'SQLQuery14....rocio (58)' tab. The query is the same as the one provided in the text. Below the query editor, the 'Results' tab is active, showing a table with 3 columns: 'gender', 'age', and 'time'. The table contains 2 rows of data.

	gender	age	time
1	Male	35	436.2333333
2	Male	33	475.3666667