Ejercicios Prácticos

Ejercicio Práctico 4.1

1. Abra dos ventanas distintas apuntadas a una base de datos de la que sea propietario (owner)

2. Cree una tabla llamada colores con un campo llamado color en la primer ventana

3. Revise si la tabla existe en la segunda ventana (select * from colores)

4. Inserte tres registros en la tabla con los tres colores que se le ocurra en la segunda ventana.

5. Verifique que los tres registros se incorporaron desde la primer ventana

6. Abra una transacción con BEGIN TRANSACTION en la primer ventana y luego borre los tres registros

7. Verifique en la segunda ventana cual es el contenido de la tabla colores. (select * from colores)

8. Verifique en la primer ventana cual es el contenido de la tabla colores. (select * from colores)

9. Aplique en la primer ventana un COMMIT TRANSACTION y repita los pasos 7 y 8

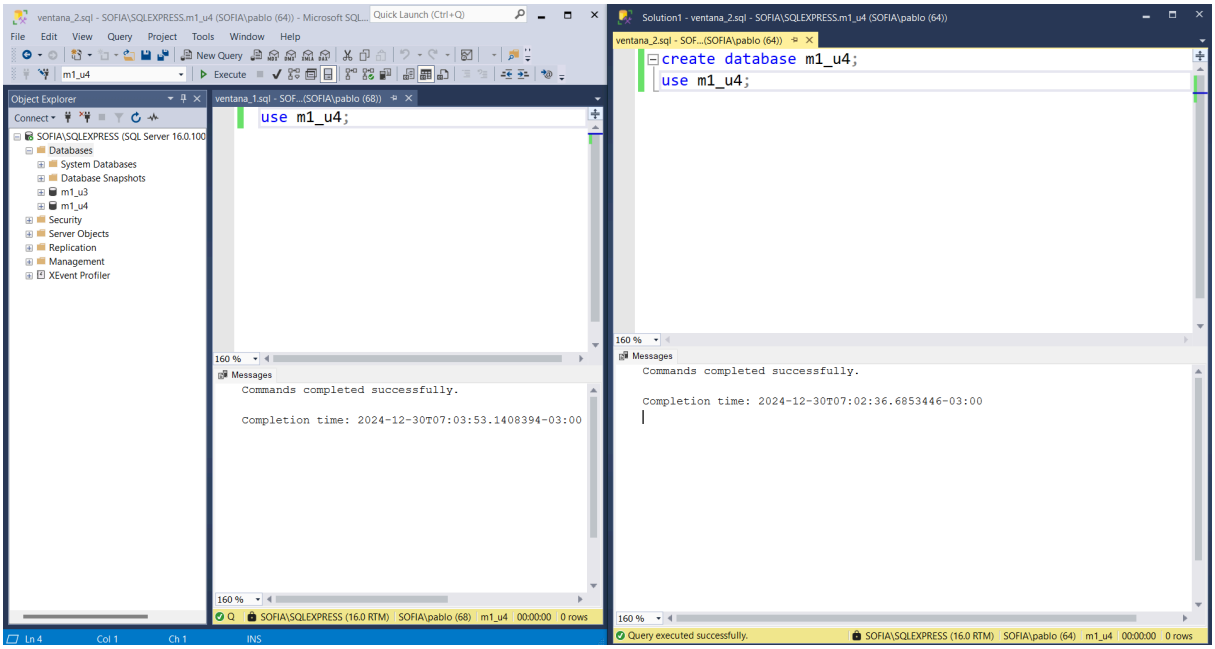
10. Abra una transacción en la segunda ventana

11. Inserte 3 nuevos colores

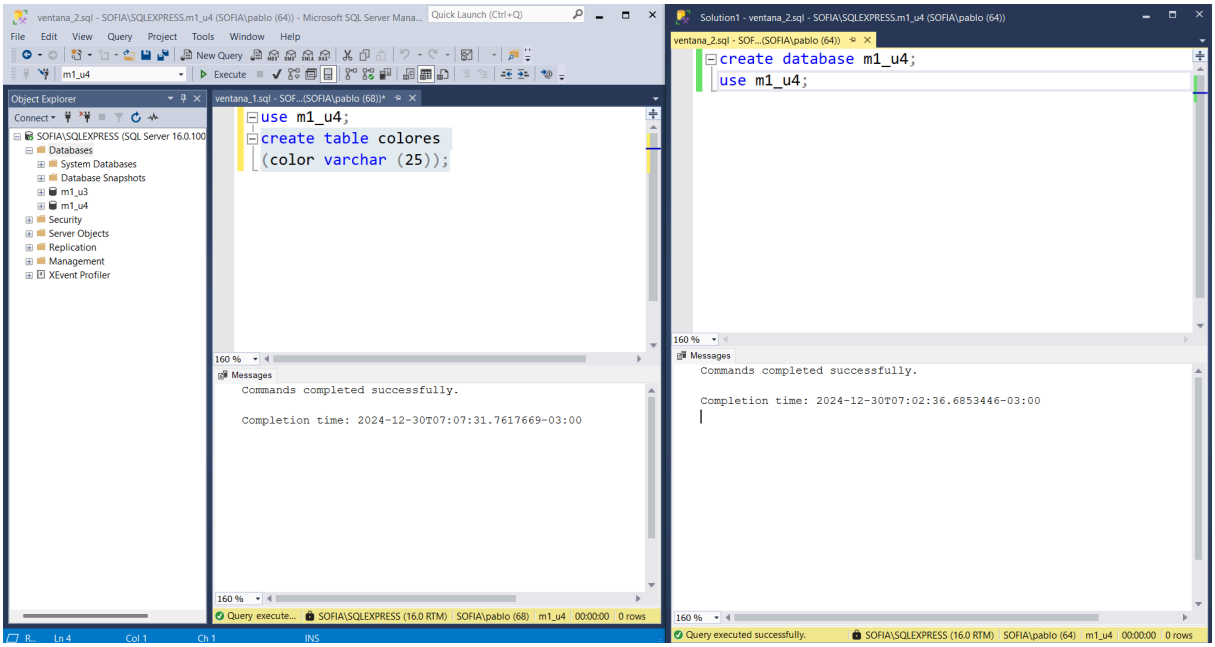
12. Repita los pasos 7 y 8

13. Haga un ROLLBACK TRANSACTION en la segunda ventana.

1

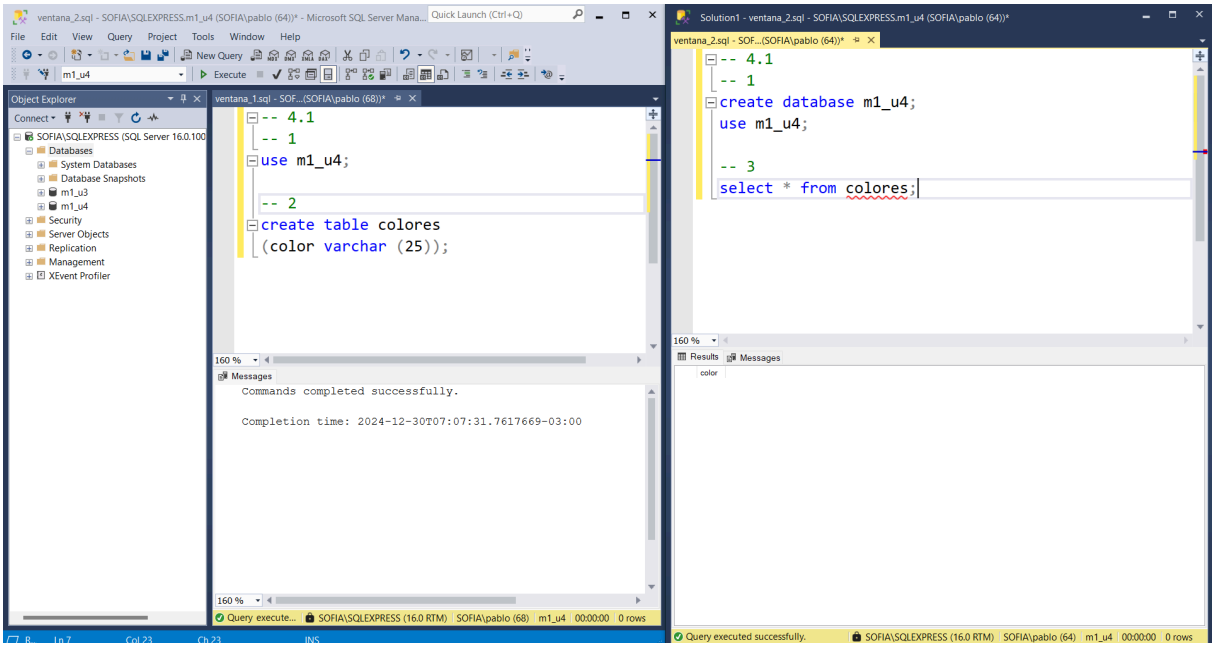

use m1_u4;
Commands completed successfully.
Completion time: 2024-12-30T07:03:53.1408394-03:00
create database m1_u4;
use m1_u4;
Commands completed successfully.
Completion time: 2024-12-30T07:02:36.6853446-03:00

2

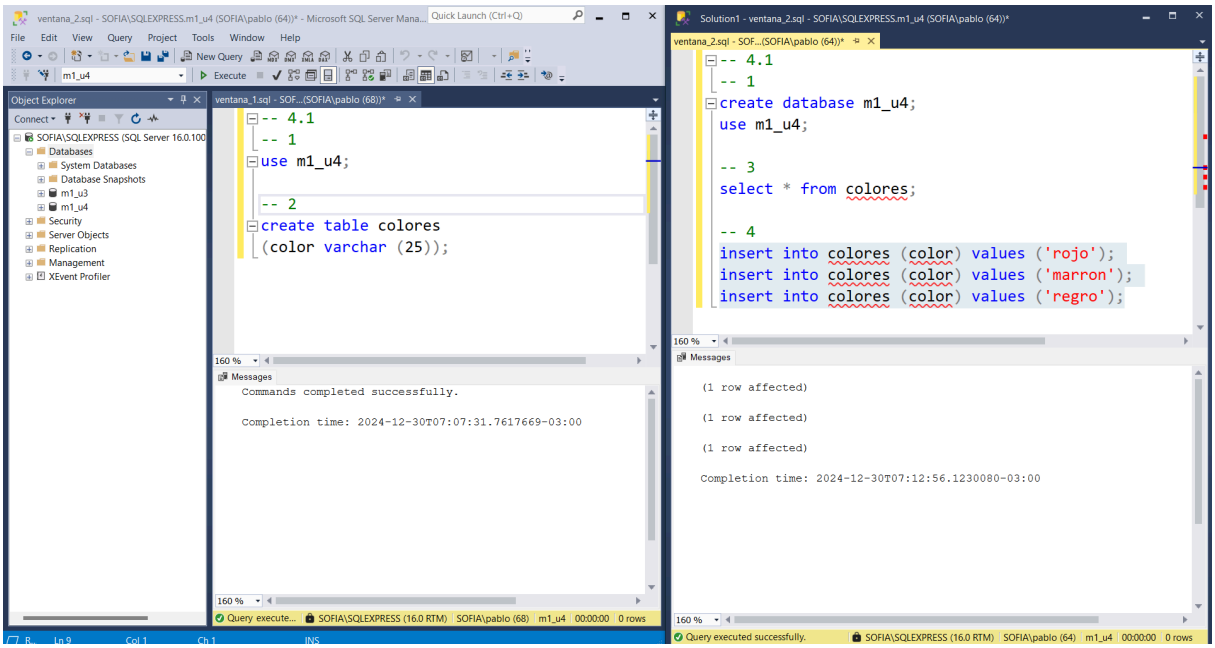

use m1_u4;
create table colores
(color varchar (25));
Commands completed successfully.
Completion time: 2024-12-30T07:07:31.7617669-03:00
create database m1_u4;
use m1_u4;
Commands completed successfully.
Completion time: 2024-12-30T07:02:36.6853446-03:00

3

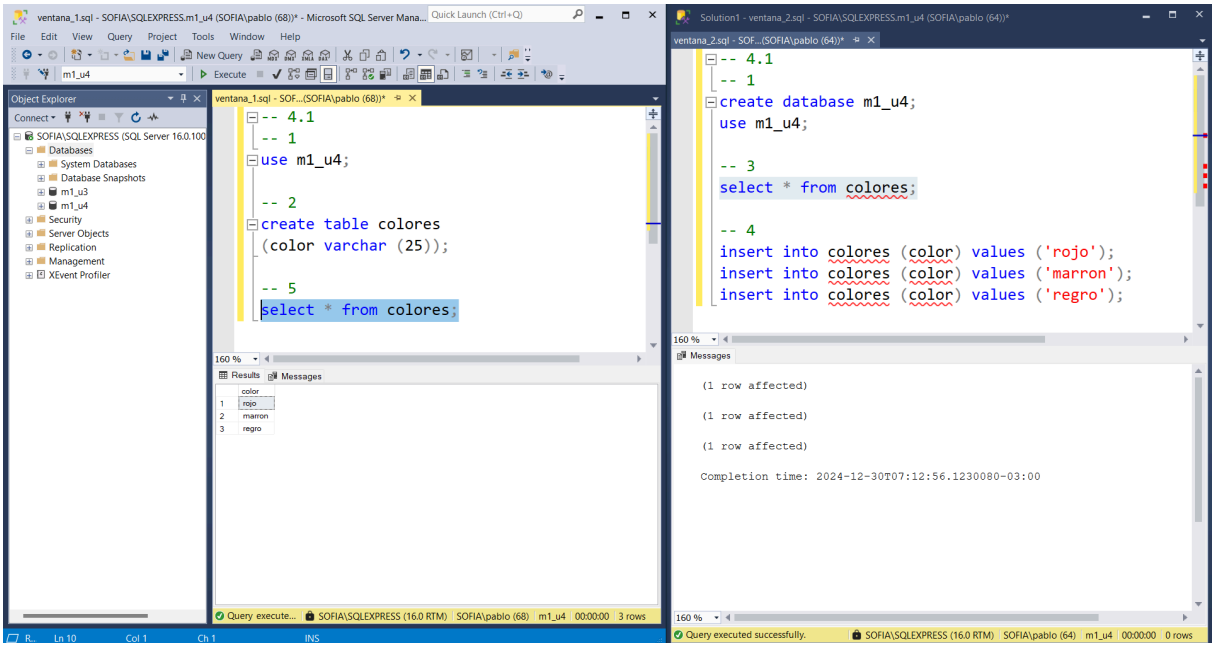
La tabla si existe



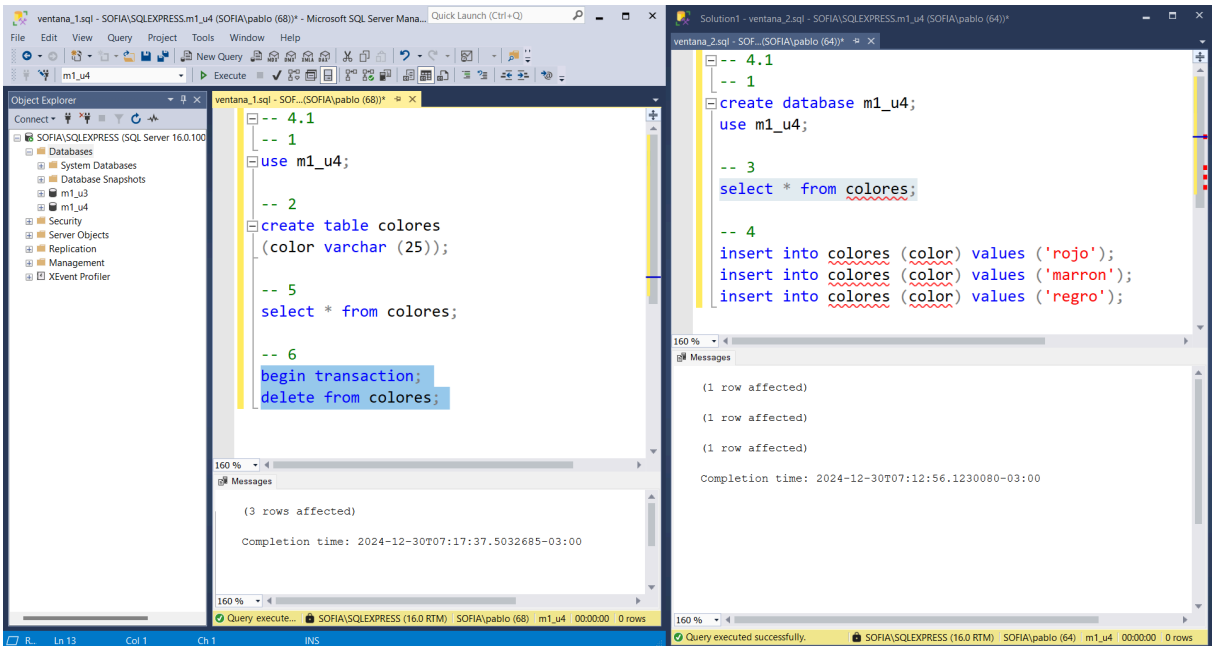
4



5


ventana_1.sql - SOFIA\SQLEXPRESS.m1_u4 (SOFIA\pablo (68))* - Microsoft SQL Server Mana...
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
Execute
m1_u4
Object Explorer
Connect
SOFIA\SQLEXPRESS (SQL Server 16.0.100
Databases
System Databases
Database Snapshots
m1_u3
m1_u4
Security
Server Objects
Replication
Management
XEvent Profiler
ventana_1.sql - SOF...(SOFIA\pablo (68))*
-- 4.1
-- 1
use m1_u4;
-- 2
create table colores
(color varchar (25));
-- 5
select * from colores;
160 %
Results
Messages
color
1 rojo
2 marron
3 regro
Query execute...
SOFIA\SQLEXPRESS (16.0 RTM)
SOFIA\pablo (68)
m1_u4
00:00:00
3 rows
Ln 10
Col 1
Ch 1
INS
Solution1 - ventana_2.sql - SOFIA\SQLEXPRESS.m1_u4 (SOFIA\pablo (64))*
ventana_2.sql - SOF...(SOFIA\pablo (64))*
-- 4.1
-- 1
create database m1_u4;
use m1_u4;
-- 3
select * from colores;
-- 4
insert into colores (color) values ('rojo');
insert into colores (color) values ('marron');
insert into colores (color) values ('regro');
160 %
Messages
(1 row affected)
(1 row affected)
(1 row affected)
Completion time: 2024-12-30T07:12:56.1230080-03:00
Query executed successfully.
SOFIA\SQLEXPRESS (16.0 RTM)
SOFIA\pablo (64)
m1_u4
00:00:00
0 rows

6


ventana_1.sql - SOFIA\SQLEXPRESS.m1_u4 (SOFIA\pablo (68))* - Microsoft SQL Server Mana...
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
Execute
m1_u4
Object Explorer
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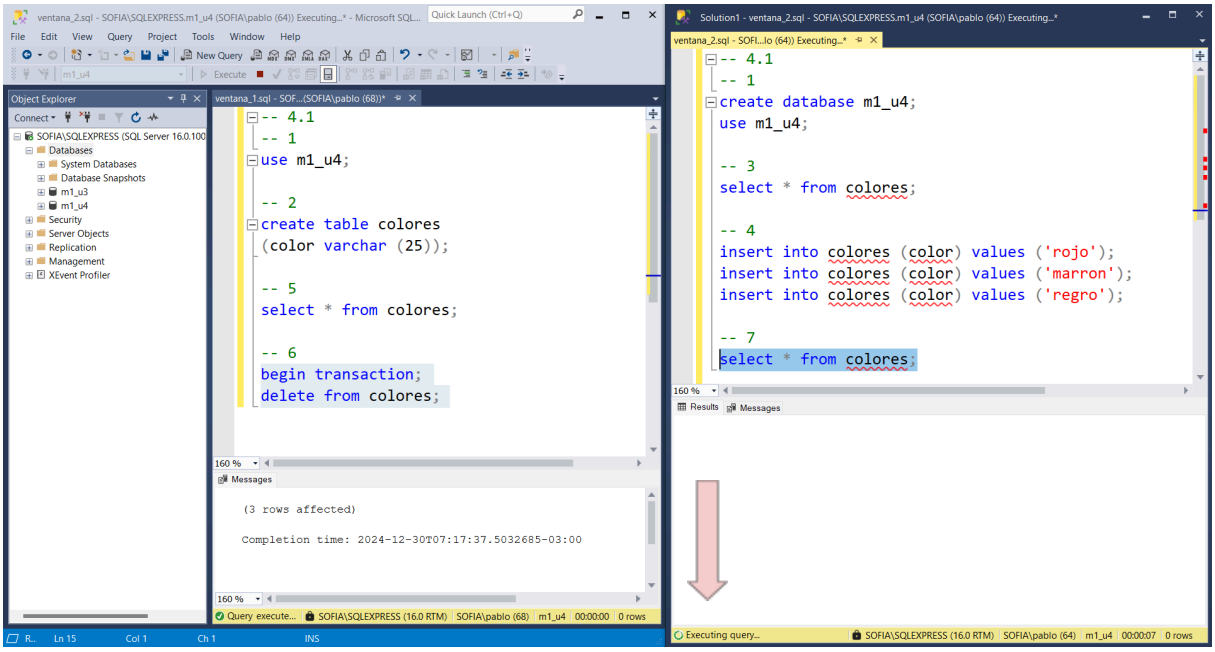
SOFIA\SQLEXPRESS (SQL Server 16.0.100
Databases
System Databases
Database Snapshots
m1_u3
m1_u4
Security
Server Objects
Replication
Management
XEvent Profiler
ventana_1.sql - SOF...(SOFIA\pablo (68))*
-- 4.1
-- 1
use m1_u4;
-- 2
create table colores
(color varchar (25));
-- 5
select * from colores;
-- 6
begin transaction;
delete from colores;
160 %
Messages
(3 rows affected)
Completion time: 2024-12-30T07:17:37.5032685-03:00
Query execute...
SOFIA\SQLEXPRESS (16.0 RTM)
SOFIA\pablo (68)
m1_u4
00:00:00
0 rows
Ln 13
Col 1
Ch 1
INS
Solution1 - ventana_2.sql - SOFIA\SQLEXPRESS.m1_u4 (SOFIA\pablo (64))*
ventana_2.sql - SOF...(SOFIA\pablo (64))*
-- 4.1
-- 1
create database m1_u4;
use m1_u4;
-- 3
select * from colores;
-- 4
insert into colores (color) values ('rojo');
insert into colores (color) values ('marron');
insert into colores (color) values ('regro');
160 %
Messages
(1 row affected)
(1 row affected)
(1 row affected)
Completion time: 2024-12-30T07:12:56.1230080-03:00
Query executed successfully.
SOFIA\SQLEXPRESS (16.0 RTM)
SOFIA\pablo (64)
m1_u4
00:00:00
0 rows

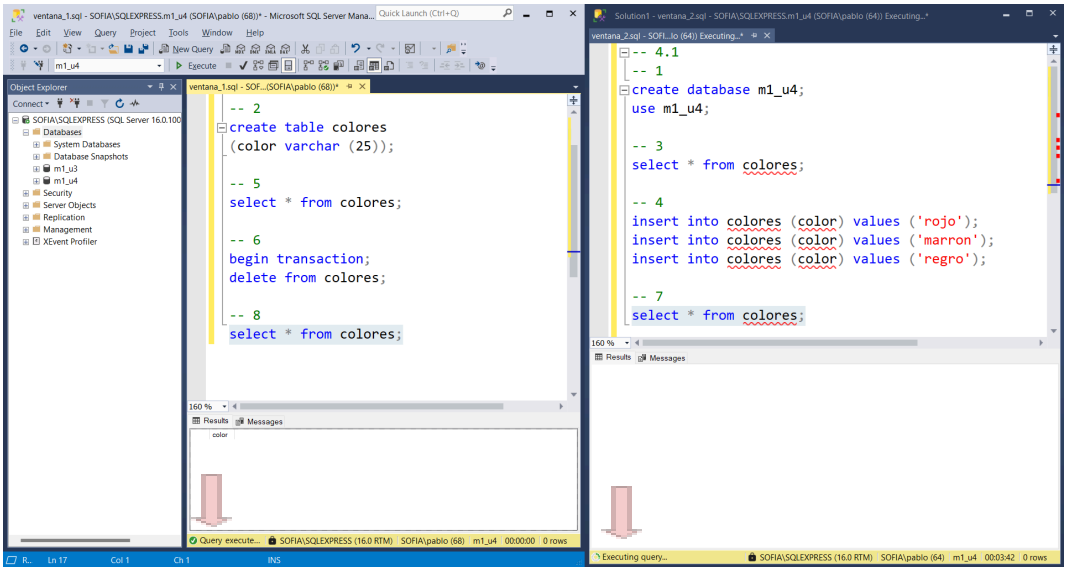
7

Se queda esperando una respuesta



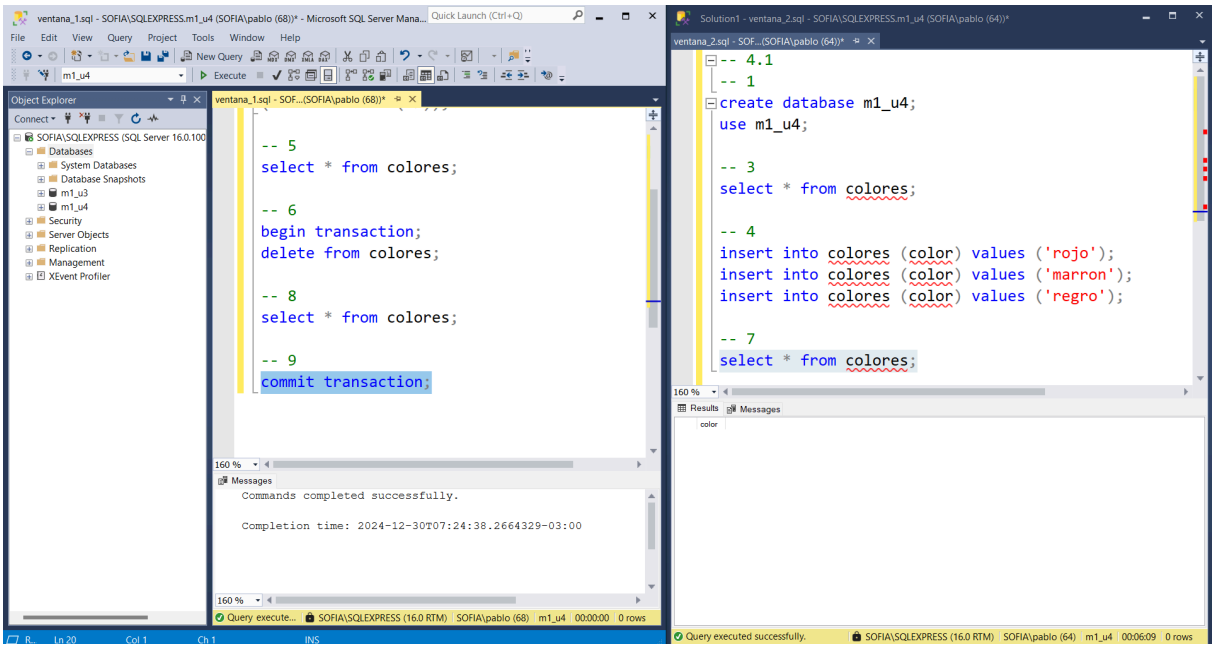
8

En la ventana 1 la consulta (select * from colores) se ejecuta sin problemas, mientras que en la ventana 2, sigue esperando.

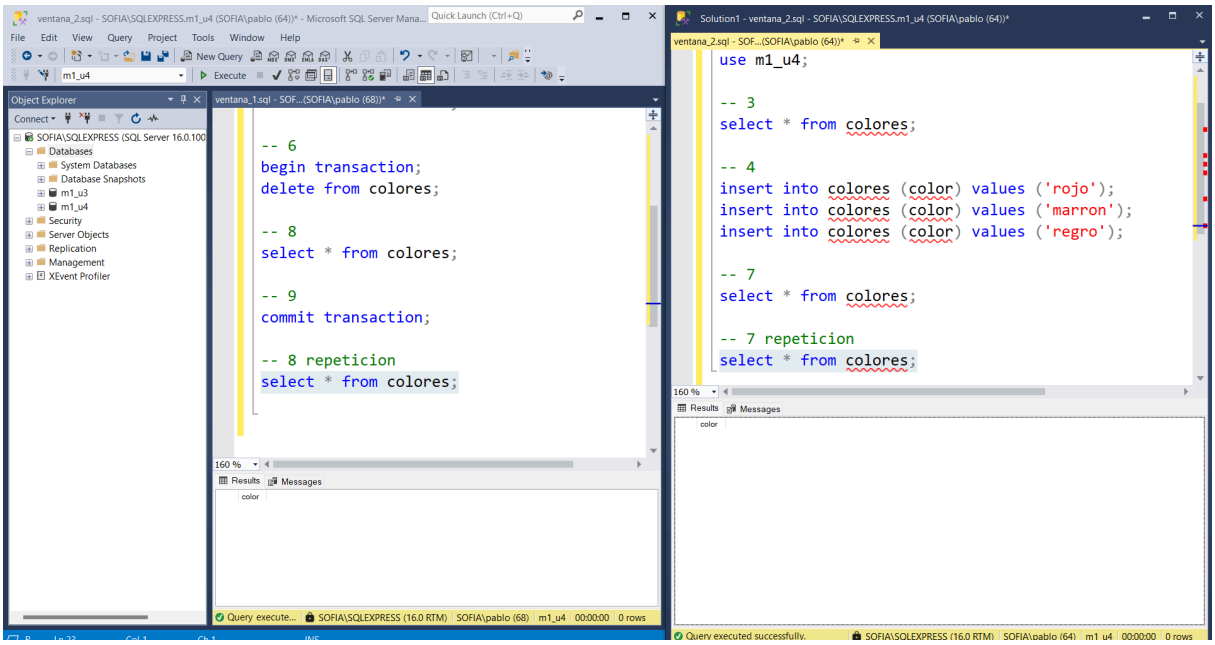


9

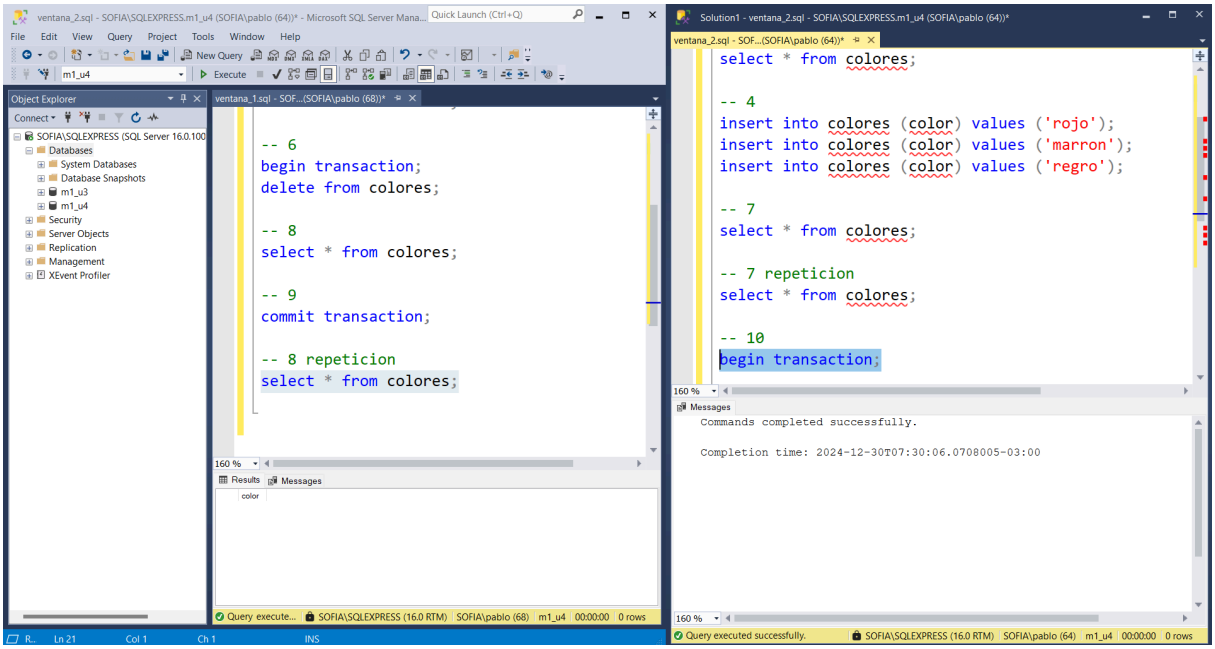
Al ejecutar (commit transaction) en la ventana 1, la consulta de la ventana 2 que estaba esperando, finalizó.



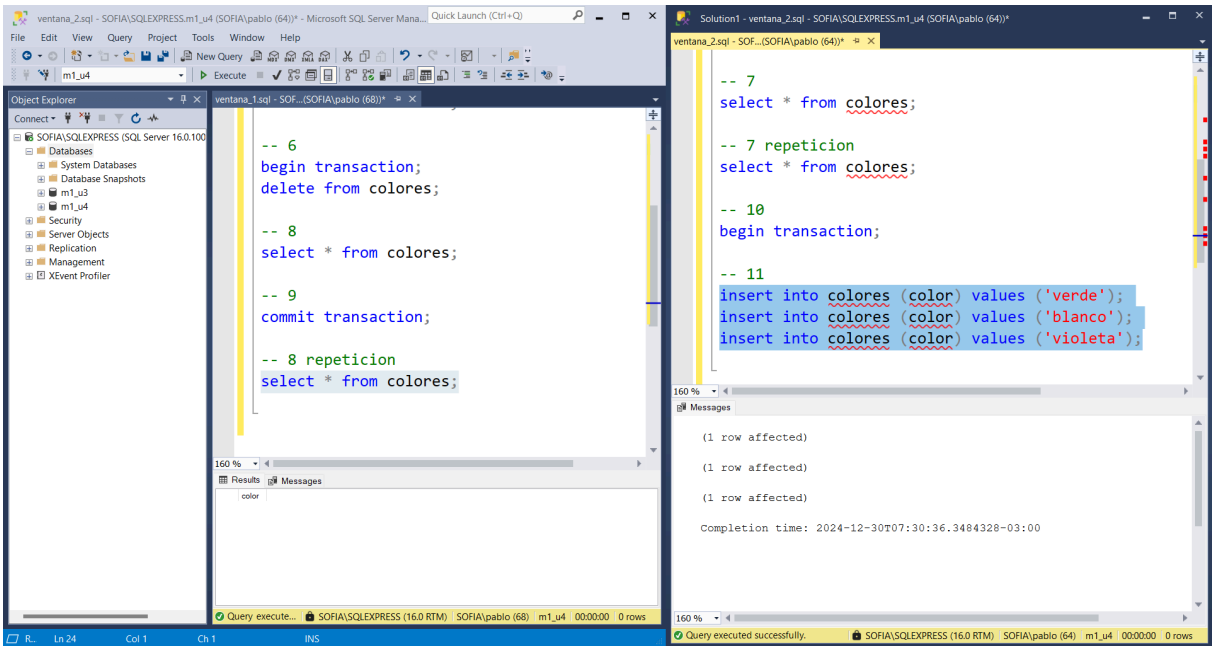
Al repetir los pasos 7 y 8, la consulta (select * from colores) se ejecuta sin problemas.



10

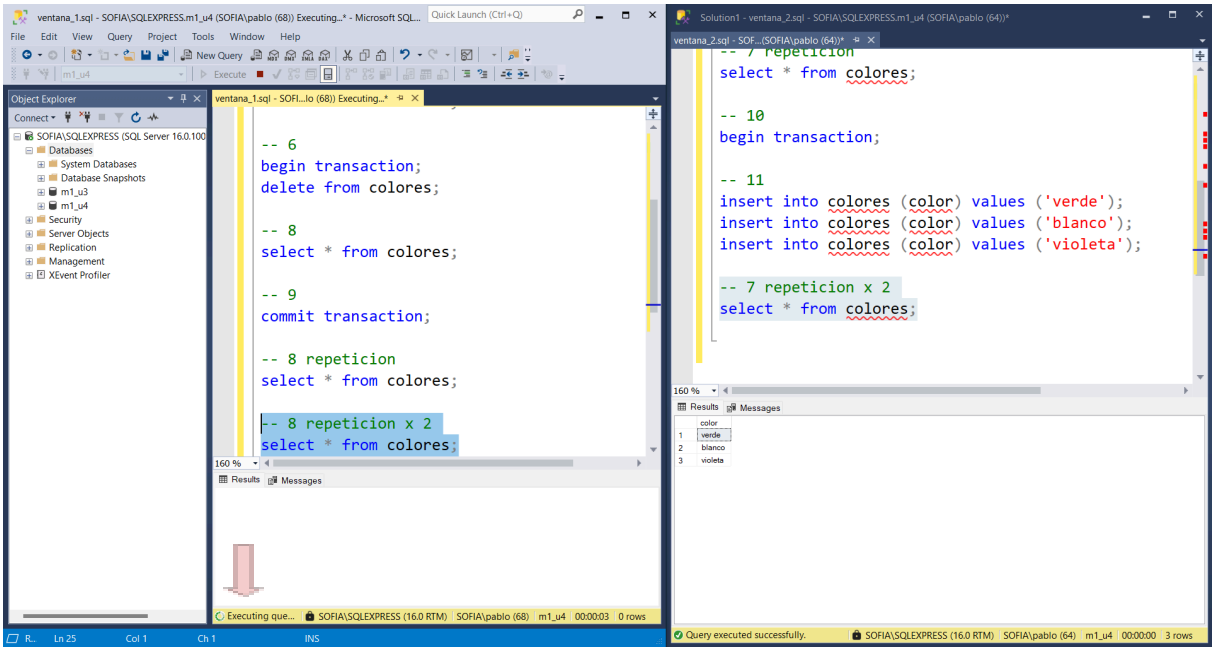

-- 6
begin transaction;
delete from colores;
-- 8
select * from colores;
-- 9
commit transaction;
-- 8 repeticion
select * from colores;
select * from colores;
-- 4
insert into colores (color) values ('rojo');
insert into colores (color) values ('marron');
insert into colores (color) values ('negro');
-- 7
select * from colores;
-- 7 repeticion
select * from colores;
-- 10
begin transaction;
Commands completed successfully.
Completion time: 2024-12-30T07:30:06.0708005-03:00

11


-- 6
begin transaction;
delete from colores;
-- 8
select * from colores;
-- 9
commit transaction;
-- 8 repeticion
select * from colores;
-- 7
select * from colores;
-- 7 repeticion
select * from colores;
-- 10
begin transaction;
-- 11
insert into colores (color) values ('verde');
insert into colores (color) values ('blanco');
insert into colores (color) values ('violeta');
(1 row affected)
(1 row affected)
(1 row affected)
Completion time: 2024-12-30T07:30:36.3484328-03:00

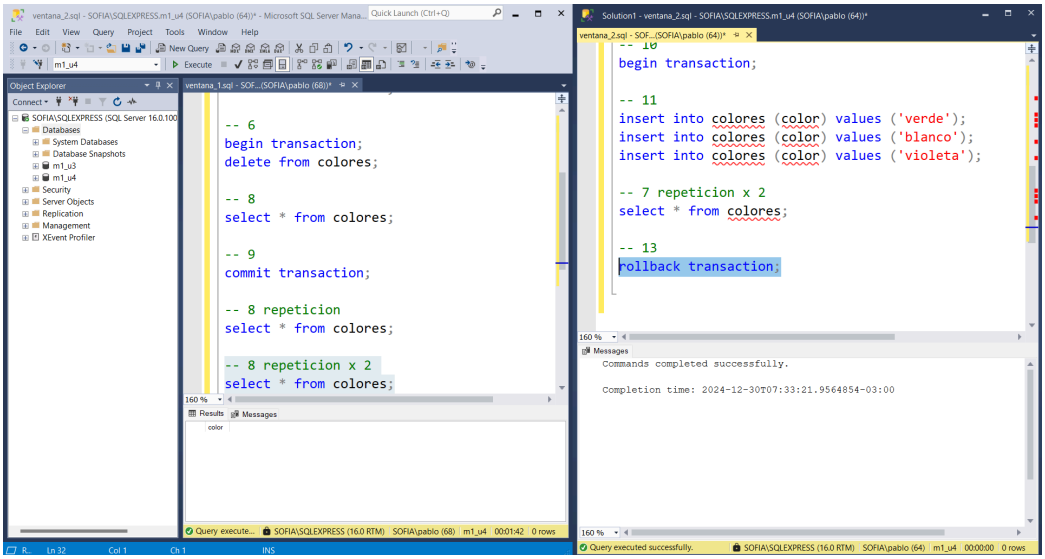
12

Cuando se ejecuta la consulta en la ventana 1, queda esperando la respuesta.



13

La consulta de la ventana 1 finalizó, arrojando ningún registro ya que con el “rollback transaction” se deshizo los insert de registros.



Ejercicio Práctico 4.2

1. Cree la tabla colores mencionada en el ejercicio 4.1 cargada con tres registros con rojo, amarillo y azul

2. Abra dos ventanas de consulta de SQL.

3. En la primer ventana inicie una transacción

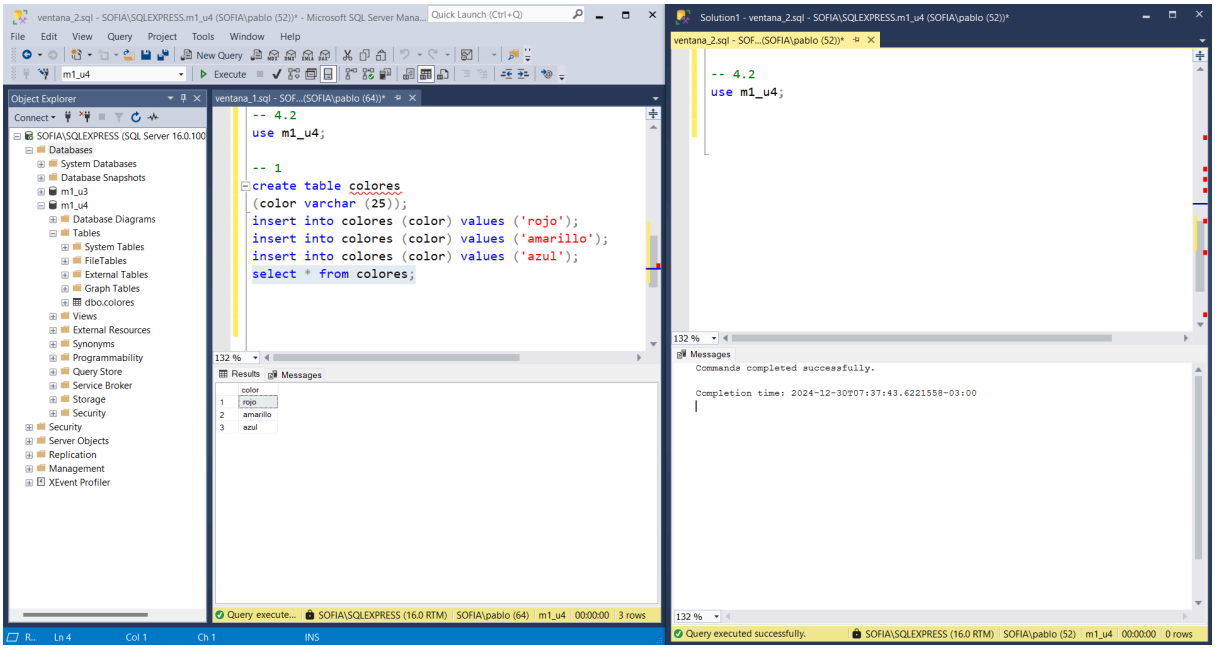
4. En la primer ventana haga un update cambiando al color azul por celeste

5. Trate de consultar el contenido de la tabla en la segunda ventana

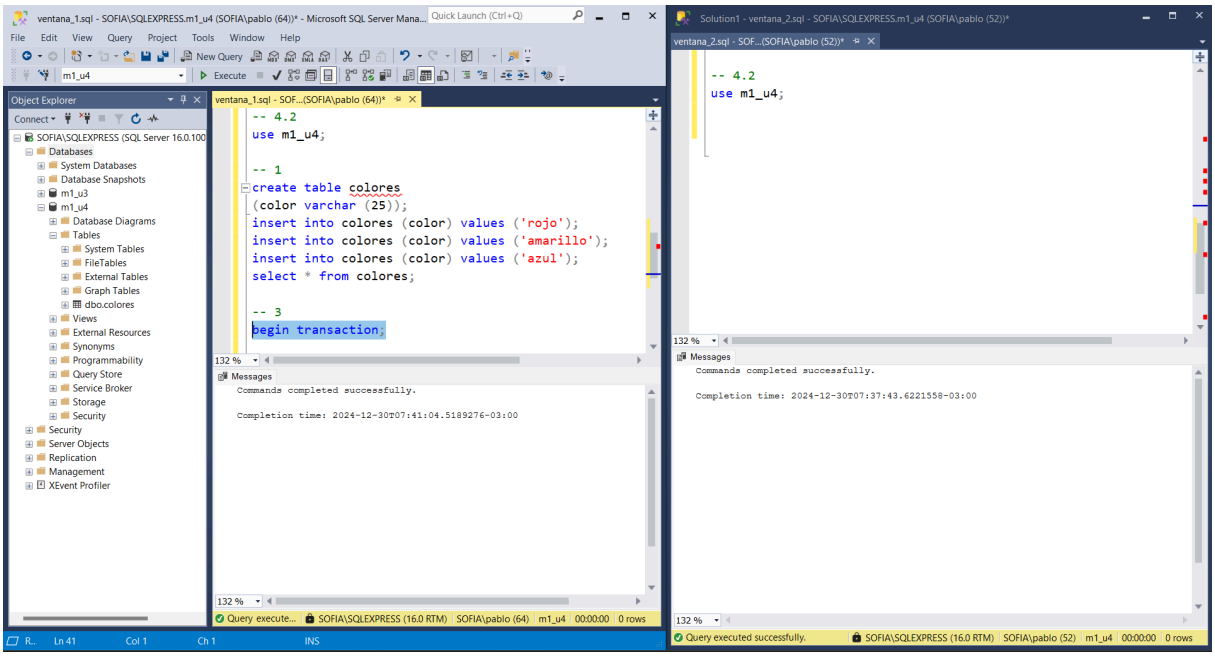
6. Trate de cambiar el color azul por violeta en la segunda ventana

7. Extraiga una conclusión sobre la disponibilidad de la información que está siendo objeto de una transacción

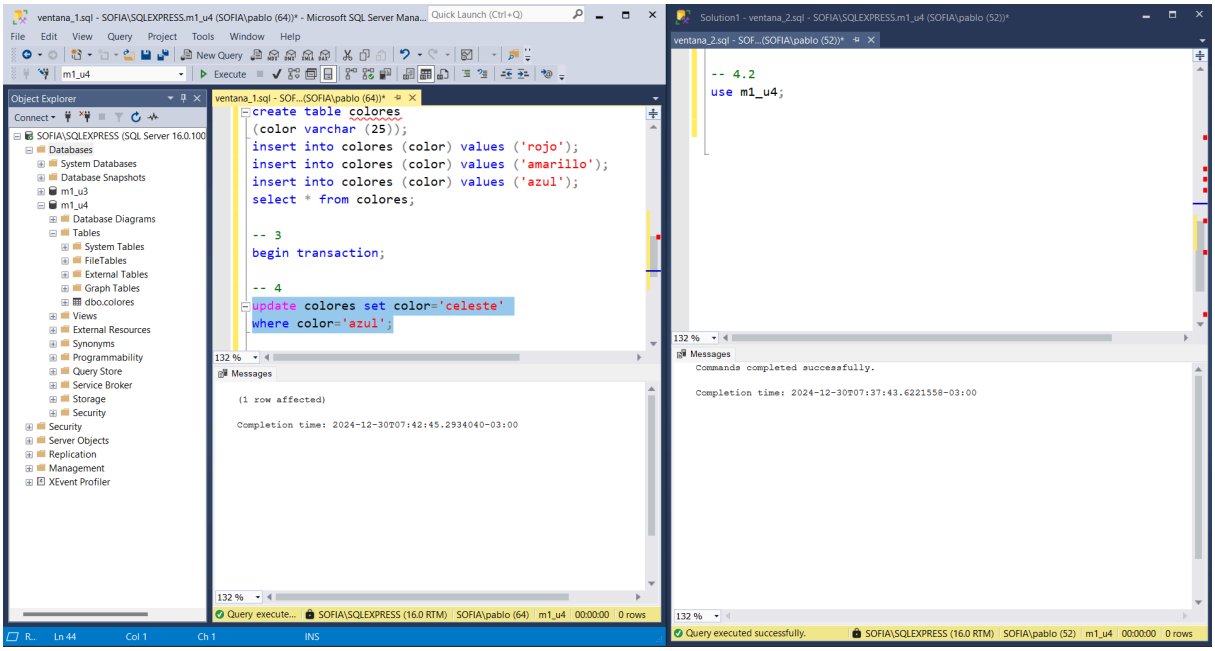
1 y 2


-- 4.2
use m1_u4;
-- 1
create table colores
(color varchar (25));
insert into colores (color) values ('rojo');
insert into colores (color) values ('amarillo');
insert into colores (color) values ('azul');
select * from colores;
color
1 rojo
2 amarillo
3 azul
Commands completed successfully.
Completion time: 2024-12-30T07:37:43.6221558-03:00

3

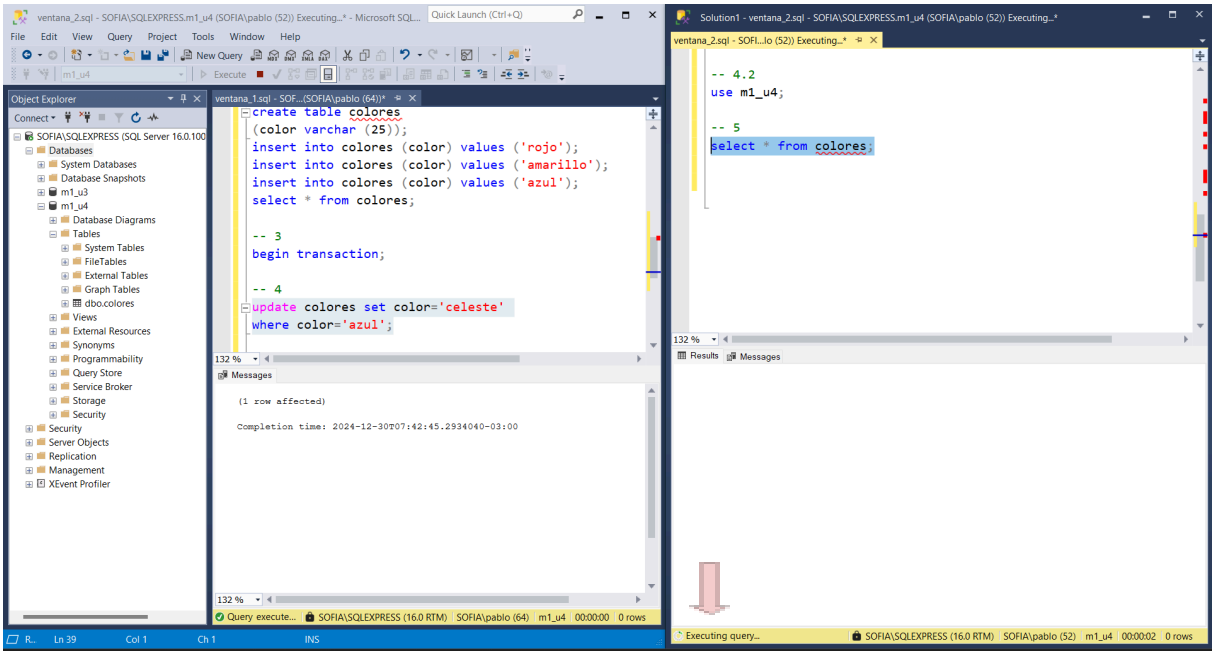

-- 4.2
use m1_u4;
-- 1
create table colores
(color varchar (25));
insert into colores (color) values ('rojo');
insert into colores (color) values ('amarillo');
insert into colores (color) values ('azul');
select * from colores;
-- 3
begin transaction;
Commands completed successfully.
Completion time: 2024-12-30T07:41:04.5189276-03:00
Commands completed successfully.
Completion time: 2024-12-30T07:37:43.6221558-03:00

4



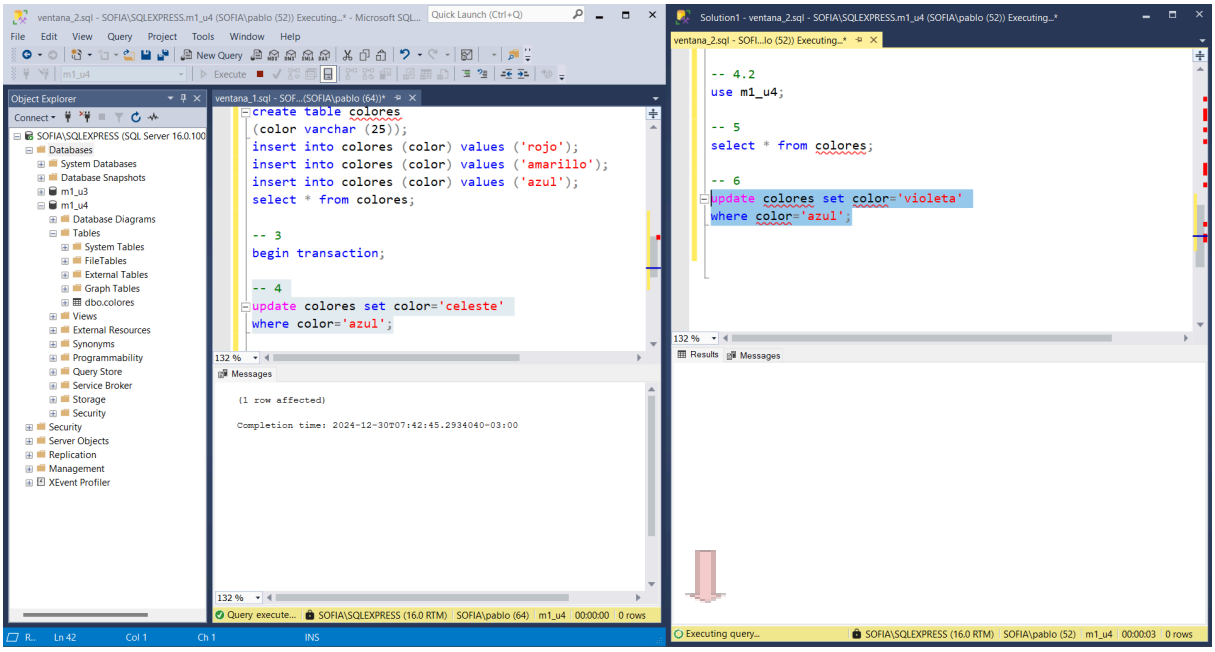
5

Al ejecutar la consulta, se queda esperando la respuesta.



6

Al querer modificar un registro tambien se queda esperando.



7

Mientras se realiza una transacción, si existe alguna otra consulta (en otra venta o de otro usuario diferente) las mismas no se ejecutarán hasta tanto no se finalice la transacción con un “commit” o “rollback”.