Tecnológico de Estudios Superiores de Ecatepec

División de Ingeniería en Sistemas Computacionales

Academia en Ciencias de la Ingeniería

Materia

Administración de Base de Datos

Grupo 5701

Alumno

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Practica 3

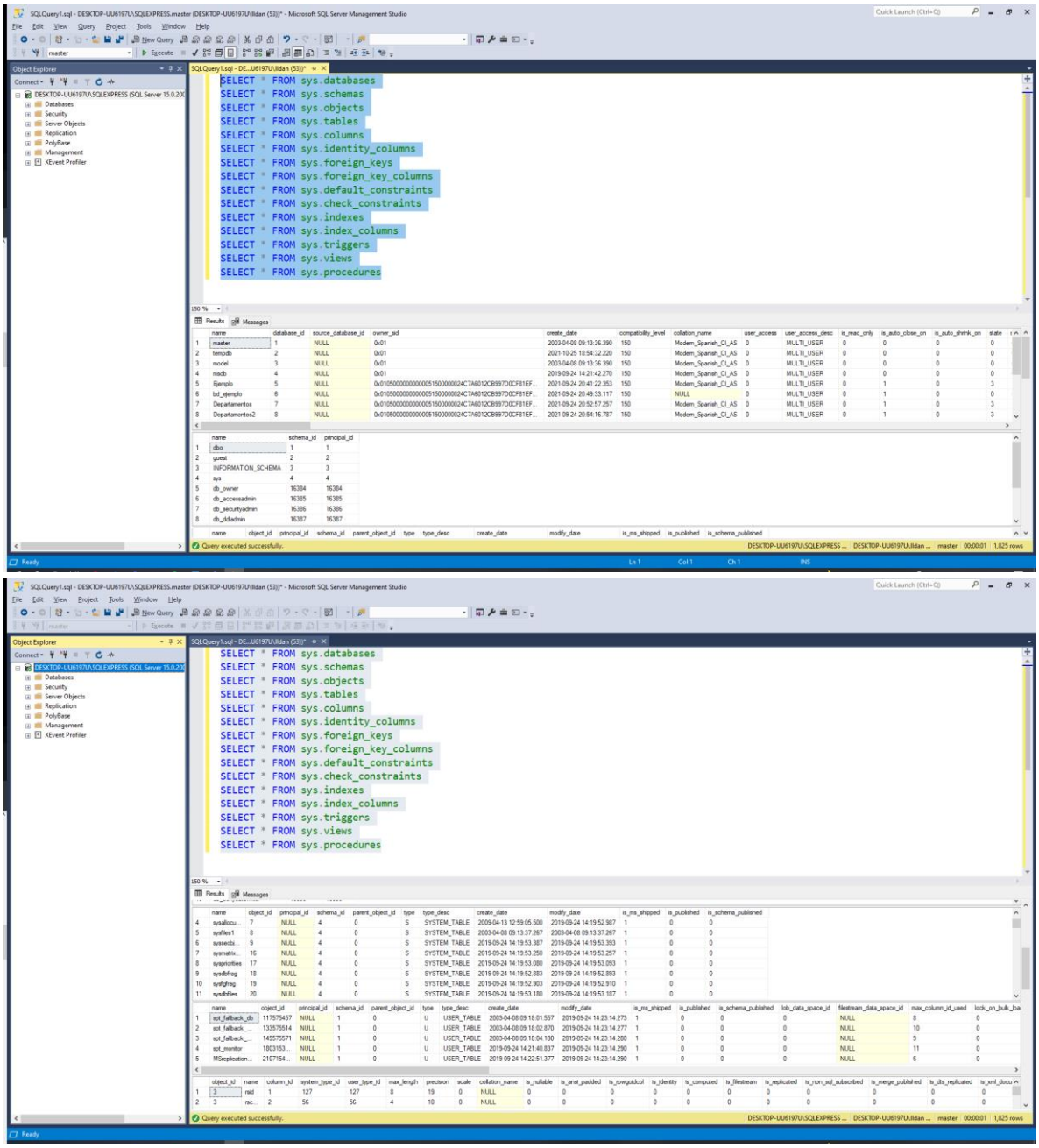
Practica 3

Abrimos SQL Server Management Studio. Una vez abierto empezaremos con nuestras actividades en un nuevo Query.

Recuperar información acerca de los objetos de la base de datos

Ejecute el siguiente script y revisar los resultados de cada declaración SELECT.

- SELECT * FROM sys.databases
- SELECT * FROM sys.schemas
- SELECT * FROM sys.objects
- SELECT * FROM sys.tables
- SELECT * FROM sys.columns
- SELECT * FROM sys.identity_columns
- SELECT * FROM sys.foreign_keys
- SELECT * FROM sys.foreign_key_columns
- SELECT * FROM sys.default_constraints
- SELECT * FROM sys.check_constraints
- SELECT * FROM sys.indexes
- SELECT * FROM sys.index_columns
- SELECT * FROM sys.triggers
- SELECT * FROM sys.views
- SELECT * FROM sys.procedures


SQLQuery1.sql - DESKTOP-UU6197U\SQLEXPRESS.master (DESKTOP-UU6197U\Ildan (53))* - Microsoft SQL Server Management Studio
SELECT * FROM sys.databases
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Query executed successfully.
Ready

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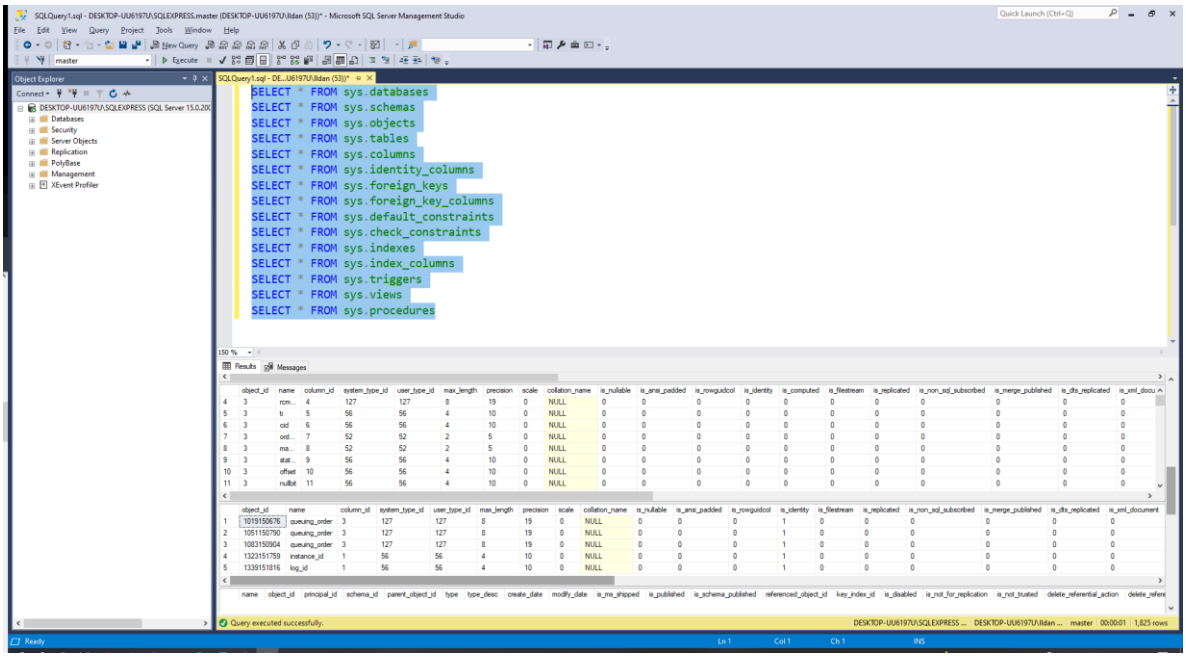
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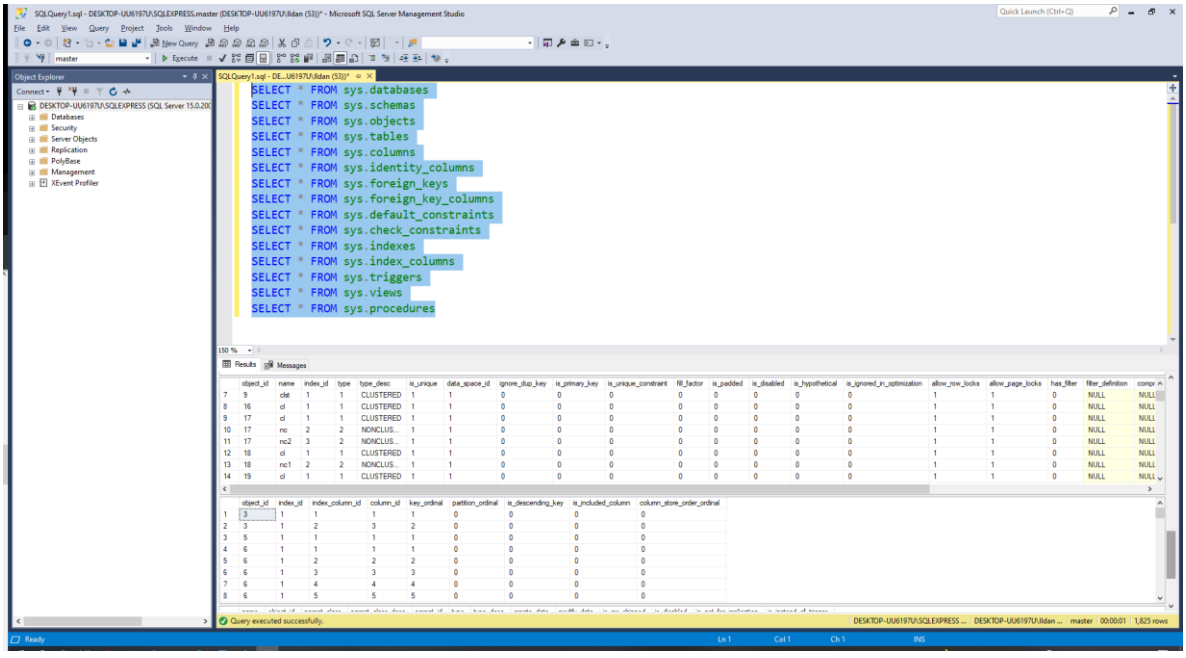
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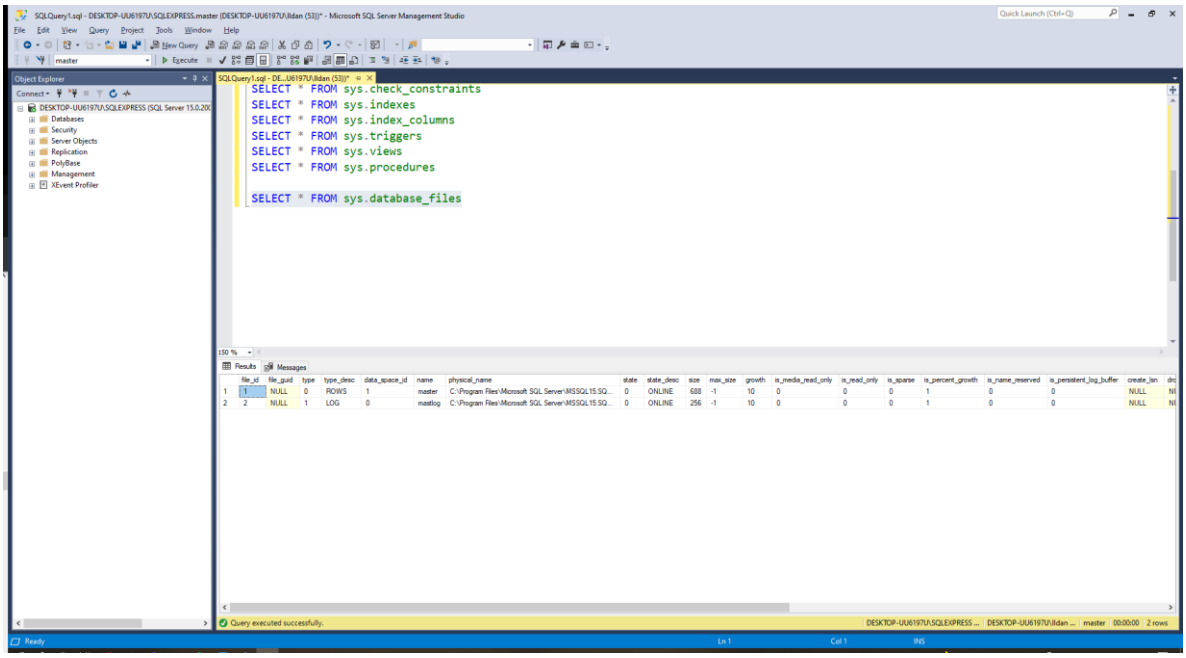
Recuperar Tamaños de bases de datos y objetos

Ejecutar la siguiente secuencia de comandos y revise los resultados de cada declaración

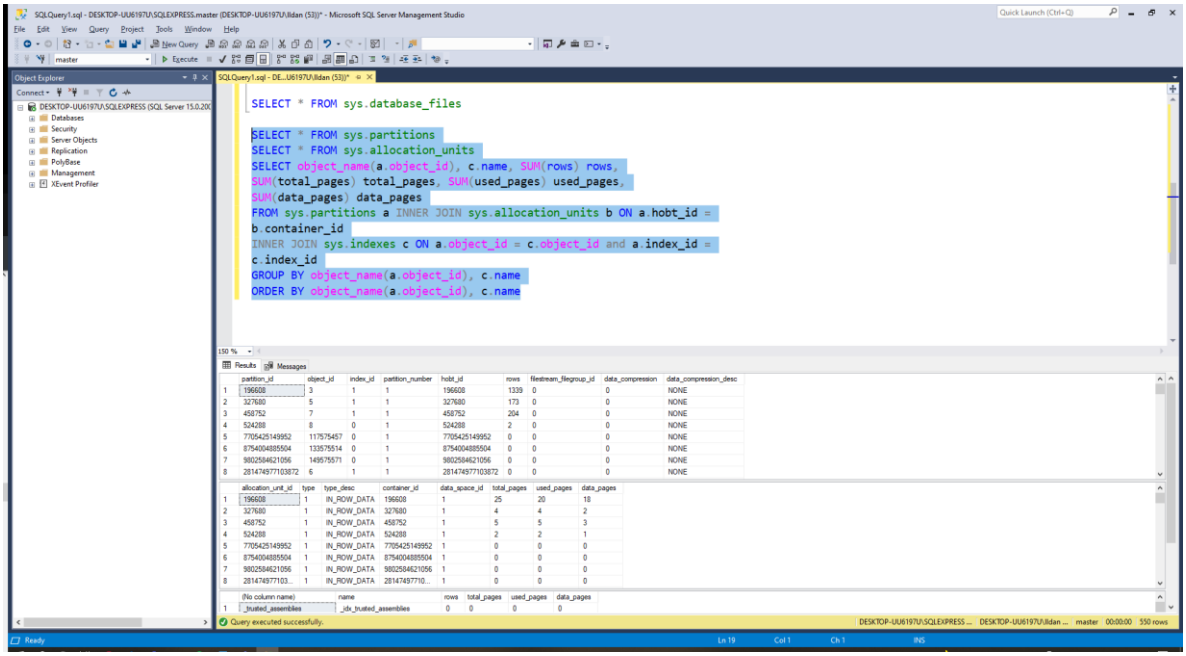
- SELECT * FROM sys.database_files



Ejecute el siguiente script y revise los resultados de cada declaración SELECT

- SELECT * FROM sys.partitions
- SELECT * FROM sys.allocation_units
- SELECT object_name(a.object_id), c.name, SUM(rows) rows,
- SUM(total_pages) total_pages, SUM(used_pages) used_pages,
- SUM(data_pages) data_pages
- FROM sys.partitions a INNER JOIN sys.allocation_units b ON a.hobt_id =
- b.container_id
- INNER JOIN sys.indexes c ON a.object_id = c.object_id and a.index_id =
- c.index_id
- GROUP BY object_name(a.object_id), c.name

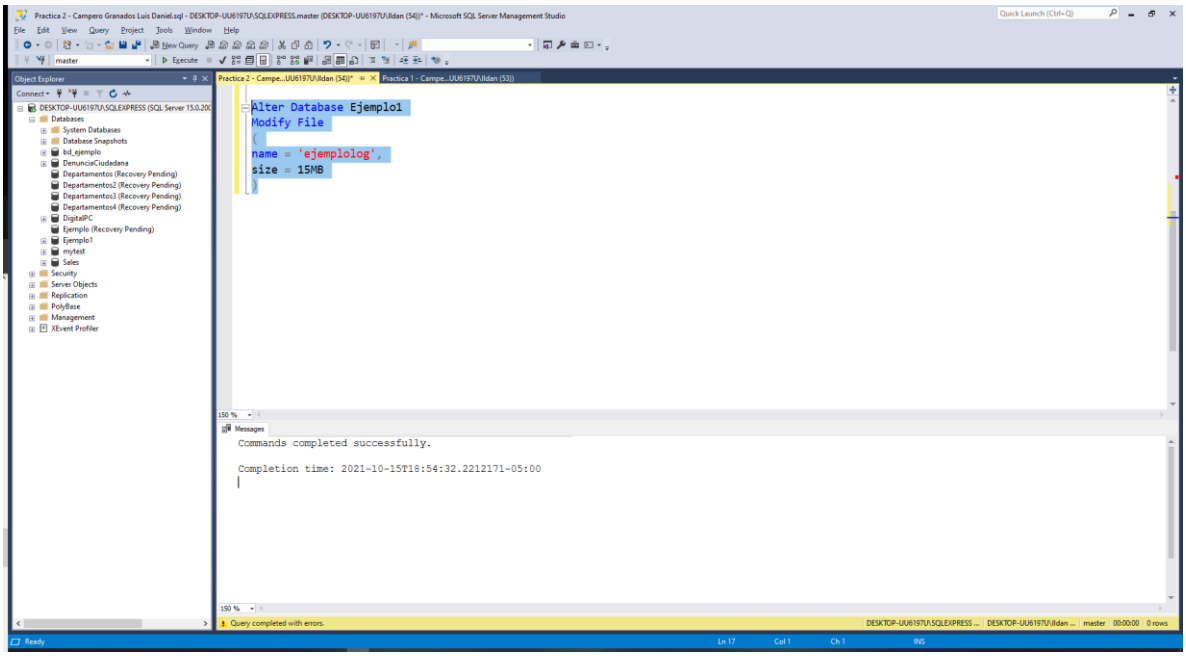
- ORDER BY object_name(a.object_id), c.name



Indices.

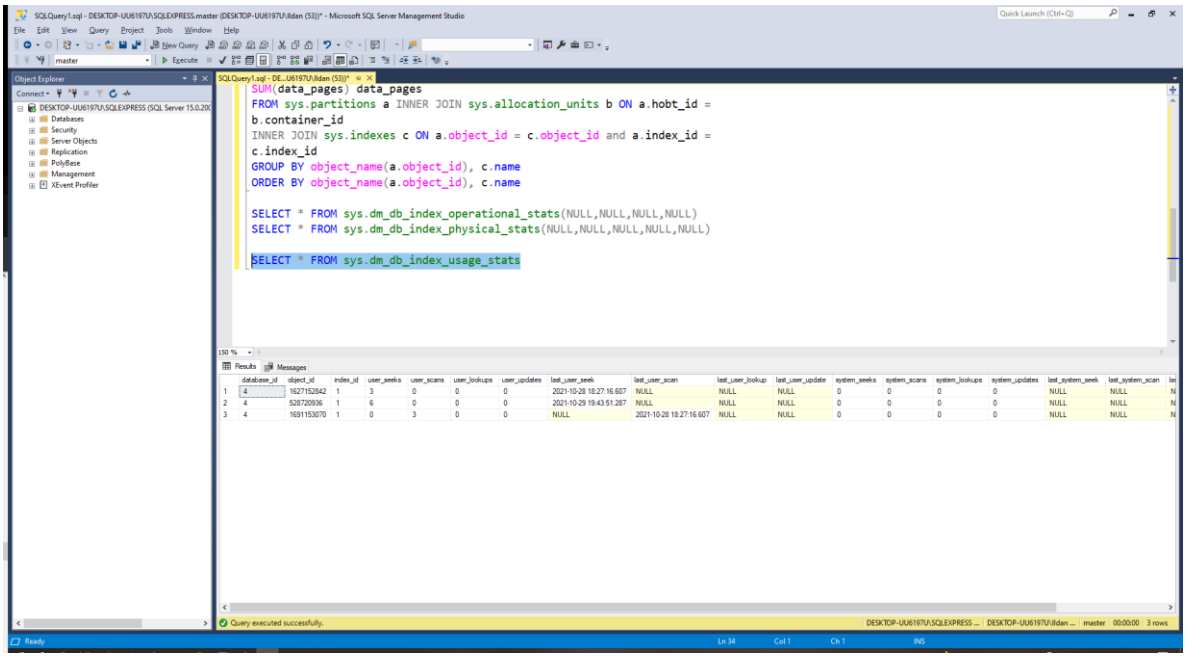
Ejecute la siguiente secuencia de comandos y revise los resultados

- SELECT * FROM sys.dm_db_index_operational_stats(NULL,NULL,NULL,NULL)
- SELECT * FROM sys.dm_db_index_physical_stats(NULL,NULL,NULL,NULL,NULL)



Ejecute la siguiente secuencia de comandos y revise los resultados Alter Database Ejemplo

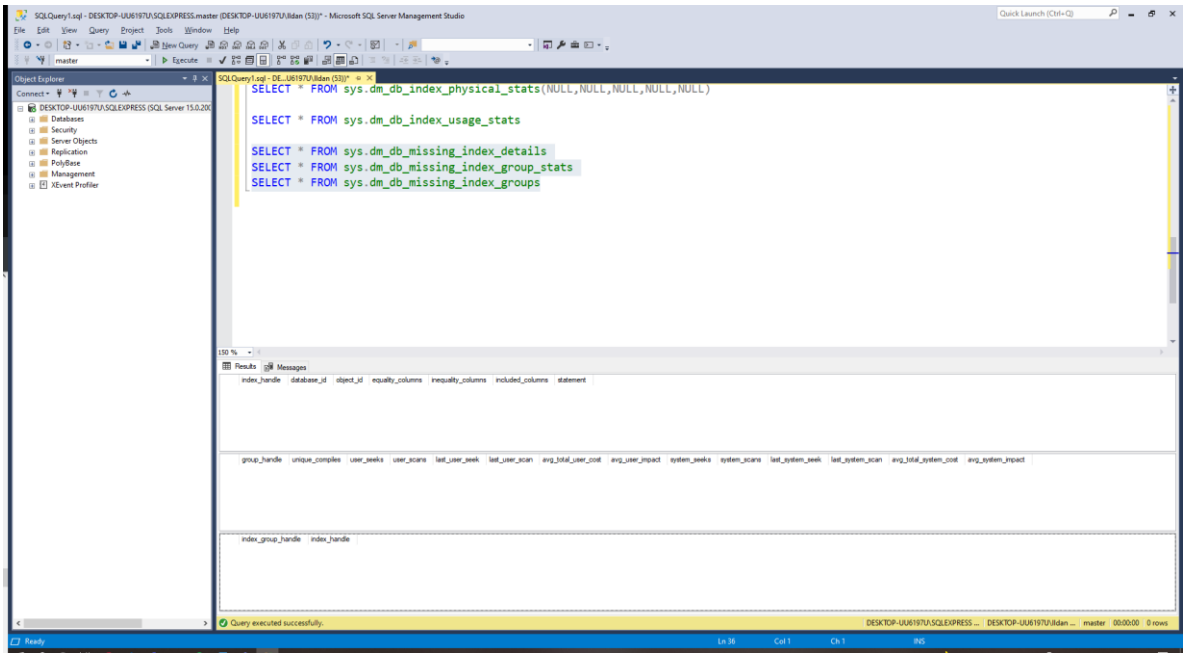
- SELECT * FROM sys.dm_db_index_usage_stats



Determinar los índices a crear

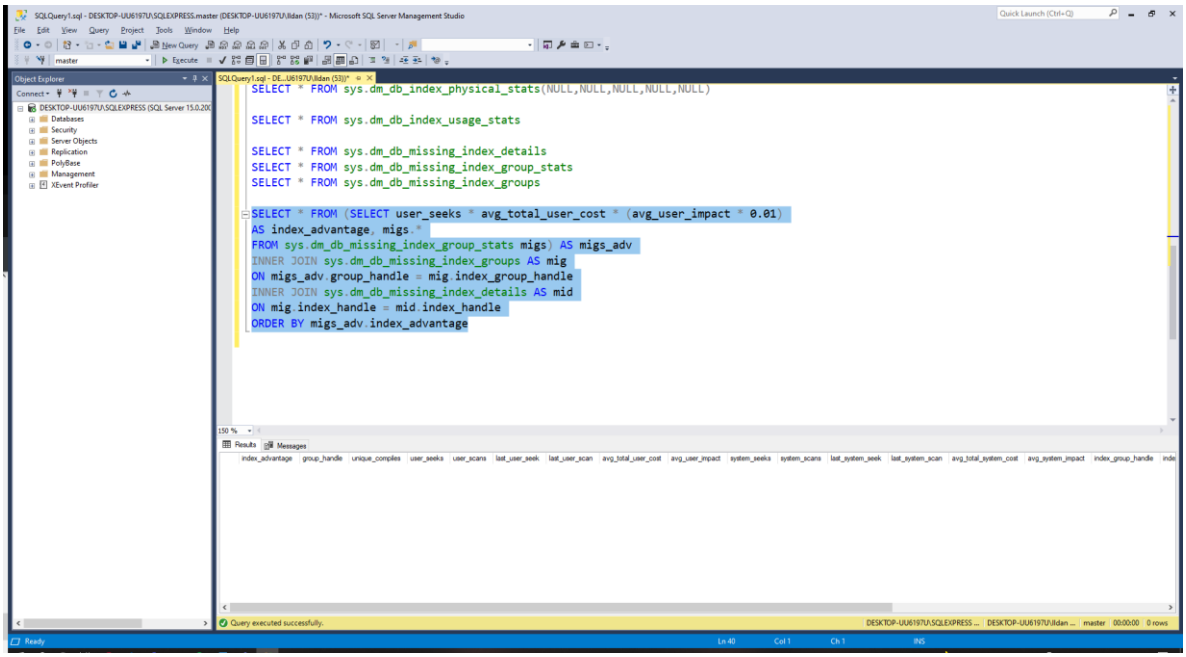
Ejecute la siguiente secuencia de comandos y revise los resultados

- SELECT * FROM sys.dm_db_missing_index_details
- SELECT * FROM sys.dm_db_missing_index_group_stats
- SELECT * FROM sys.dm_db_missing_index_groups



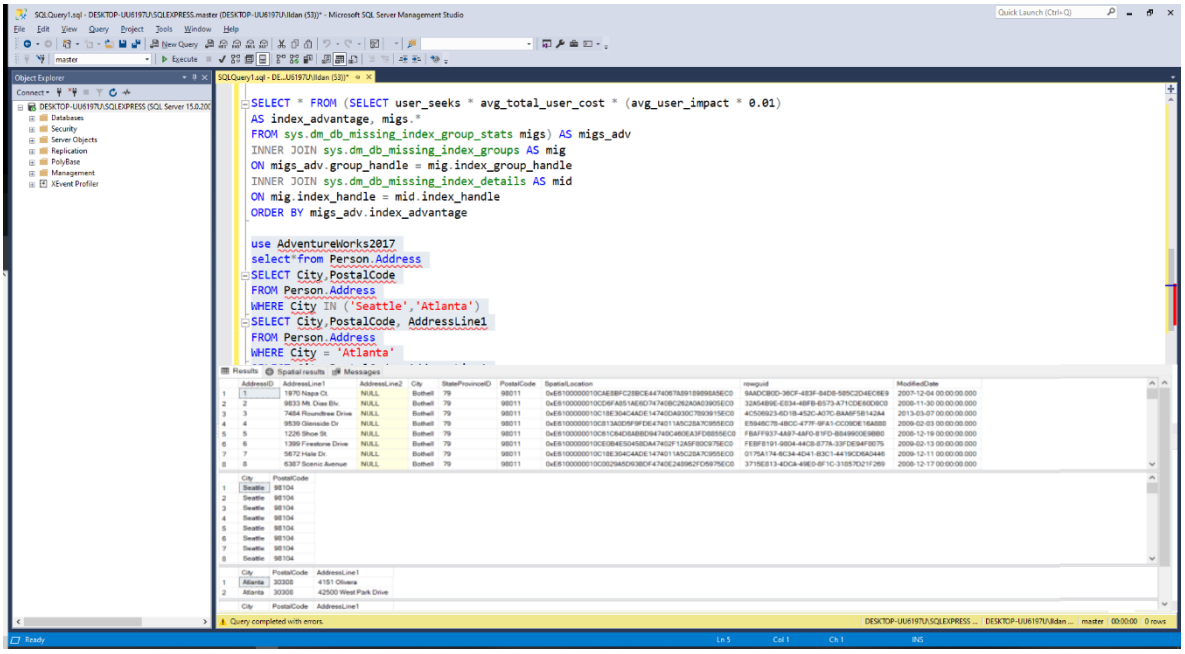
Ejecute el siguiente script de agregación y revise los resultados

- SELECT * FROM (SELECT user_seeks * avg_total_user_cost * (avg_user_impact * 0.01)
- AS index_advantage, migs.*
- FROM sys.dm_db_missing_index_group_stats migs) AS migs_adv
- INNER JOIN sys.dm_db_missing_index_groups AS mig
- ON migs_adv.group_handle = mig.index_group_handle
- INNER JOIN sys.dm_db_missing_index_details AS mid
- ON mig.index_handle = mid.index_handle
- ORDER BY migs_adv.index_advantage



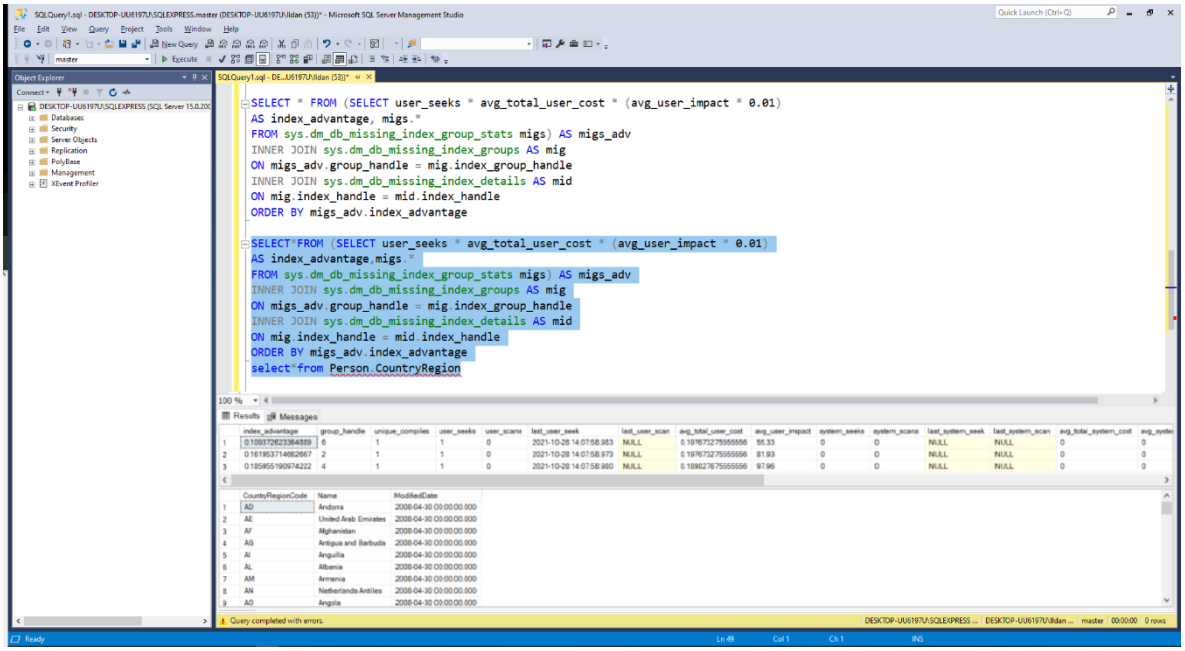
Ejecute el siguiente código para forzar un índice perdido contra la base de datos AdventureWorks

- use AdventureWorks2017
- select*from Person.Address
- SELECT City,PostalCode
- FROM Person.Address
- WHERE City IN ('Seattle','Atlanta')
- SELECT City,PostalCode, AddressLine1
- FROM Person.Address
- WHERE City = 'Atlanta'
- SELECT City,PostalCode, AddressLine1
- FROM Person.Address
- WHERE City like 'Atlan%'



Ejecutar el script de agregación de nuevo y examine los resultados

- SELECT*FROM (SELECT user_seeks * avg_total_user_cost * (avg_user_impact * 0.01)
- AS index_advantage,migs.*
- FROM sys.dm_db_missing_index_group_stats migs) AS migs_adv
- INNER JOIN sys.dm_db_missing_index_groups AS mig
- ON migs_adv.group_handle = mig.index_group_handle
- INNER JOIN sys.dm_db_missing_index_details AS mid
- ON mig.index_handle = mid.index_handle
- ORDER BY migs_adv.index_advantage
- select*from Person.CountryRegion



Ejecute el siguiente script para ejecutar repetidamente una declaración SELECT y revise los nuevos resultados de la secuencia de comandos de agregación.

- SELECT City,PostalCode,AddressLine1
- FROM Person.Address
- WHERE City like 'Atlan%'
- GO 100
- SELECT*
- FROM (SELECT user_seeks * avg_total_user_cost * (avg_user_impact * 0.01)
- AS index_advantage,migs.*
- FROM sys.dm_db_missing_index_group_stats migs) AS migs_adv
- INNER JOIN sys.dm_db_missing_index_groups AS mig
- ON migs_adv.group_handle = mig.index_group_handle
- INNER JOIN sys.dm_db_missing_index_details AS mid
- ON mig.index_handle = mid.index_handle
- ORDER BY migs_adv.index_advantage
- select*from Person.StateProvince