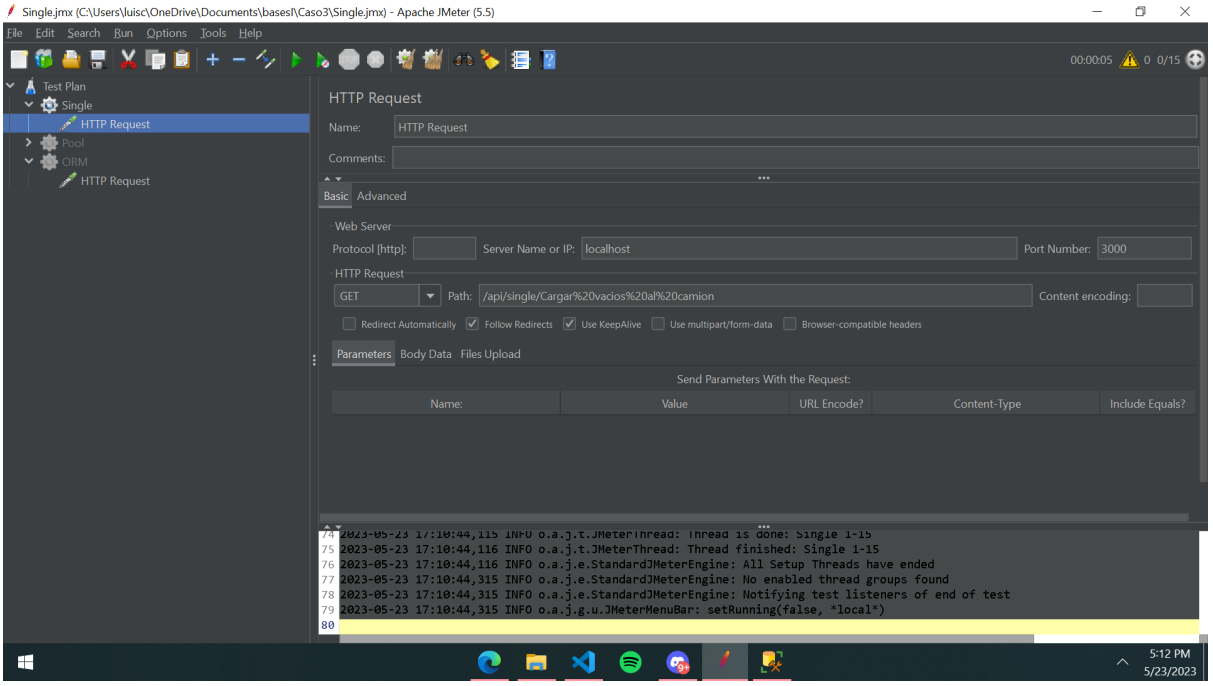
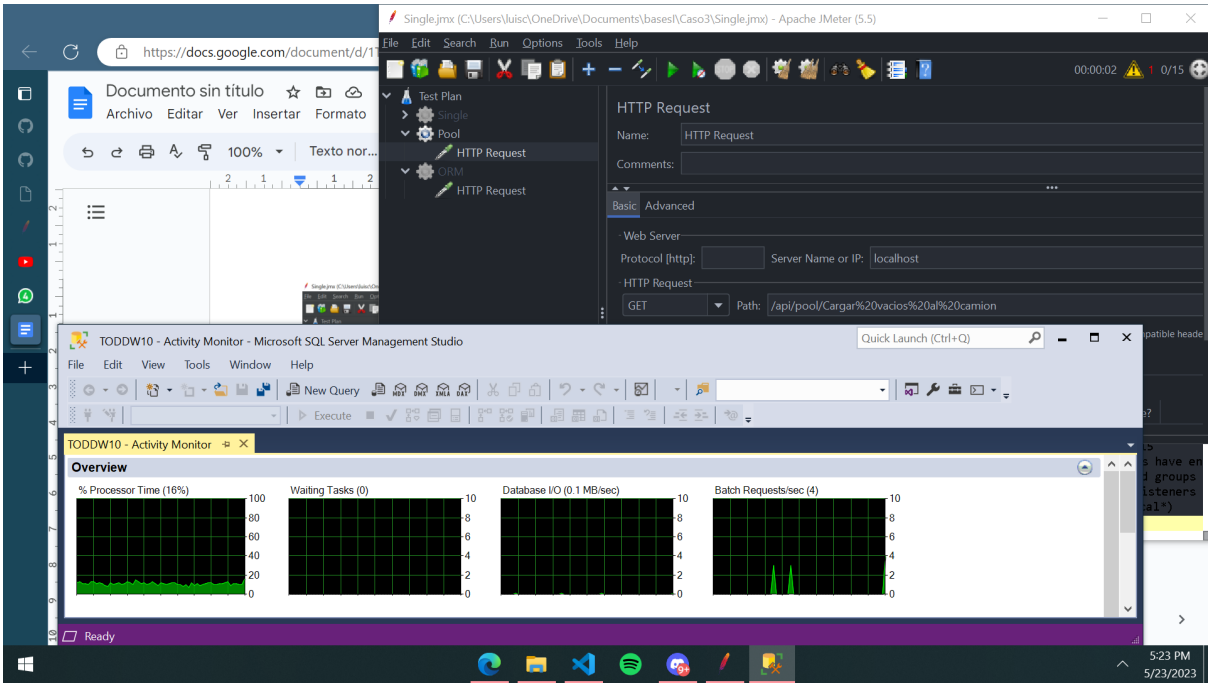
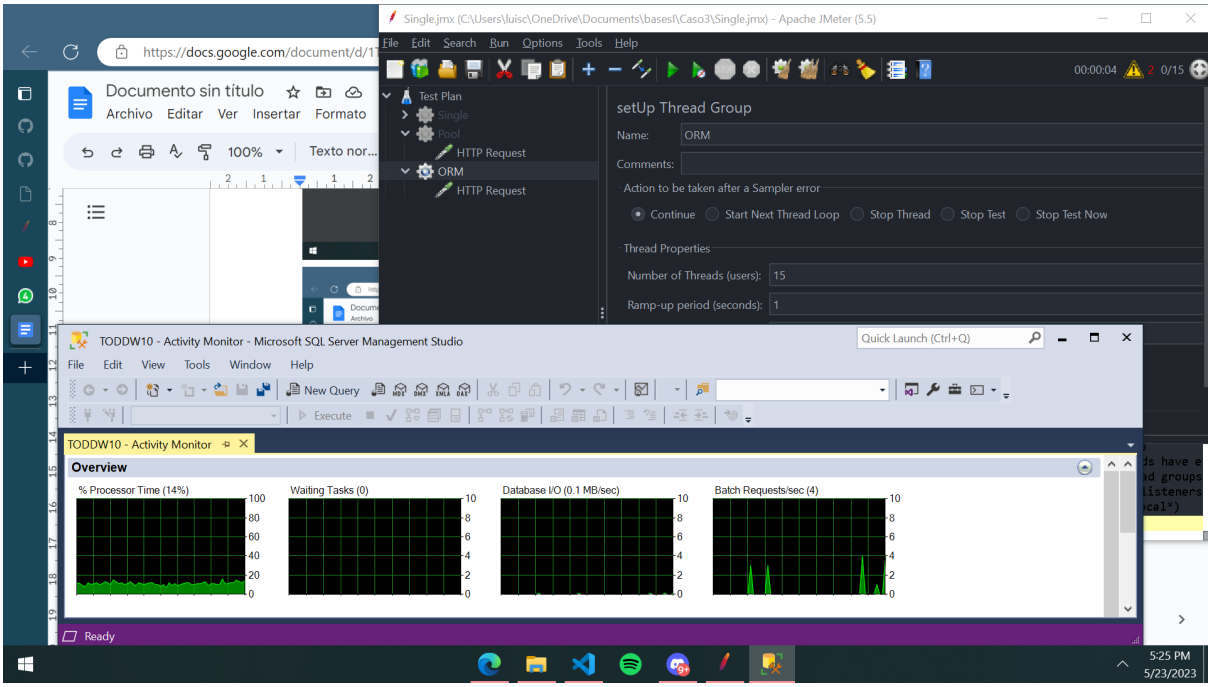
El endpoint que está obteniendo mejores resultados es el uso de pools para conectarse con la base de datos desde el servidor de express. Esto se debe a que, al tener varias conexiones (en la configuración está de 5 a 10), el servidor es capaz de atender varios requests a la vez mediante el uso de promesas. También, lo que diferencia este endpoint con el ORM es que este se comunica con la base de datos mediante un stored procedure, que ya tiene un execution plan optimizado. El ORM traduce los métodos del objeto de la tabla a queries de SQL, pero el DBMS tiene que crear un execution plan y optimizar el query por lo que va a tardar más. El más lento en general es utilizar una única conexión, ya que, a pesar de que utiliza un stored procedure, sólo puede atender un request a la vez.

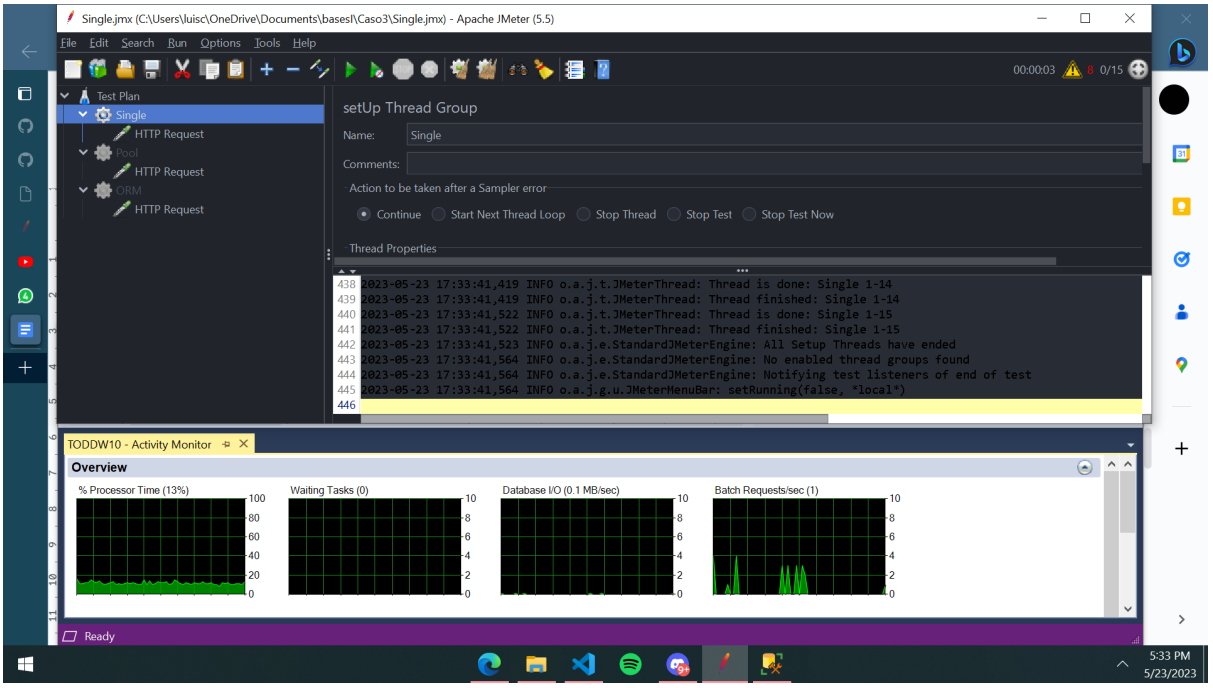
First Test (Ejecutado después del app start)

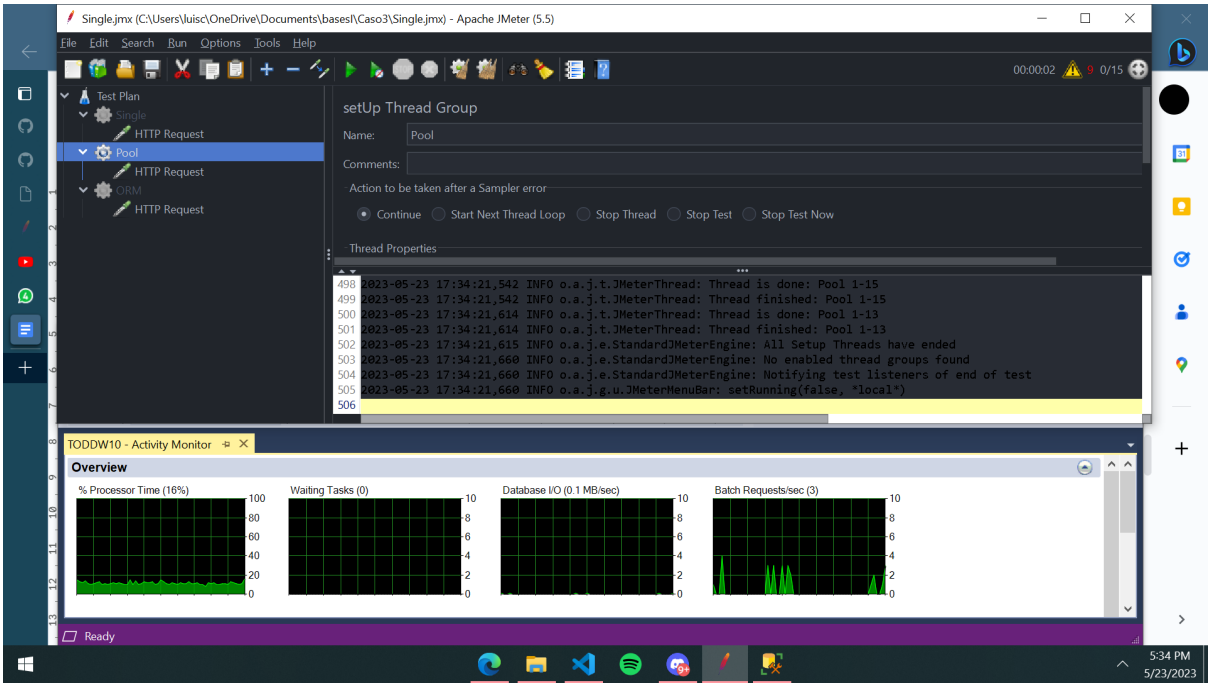


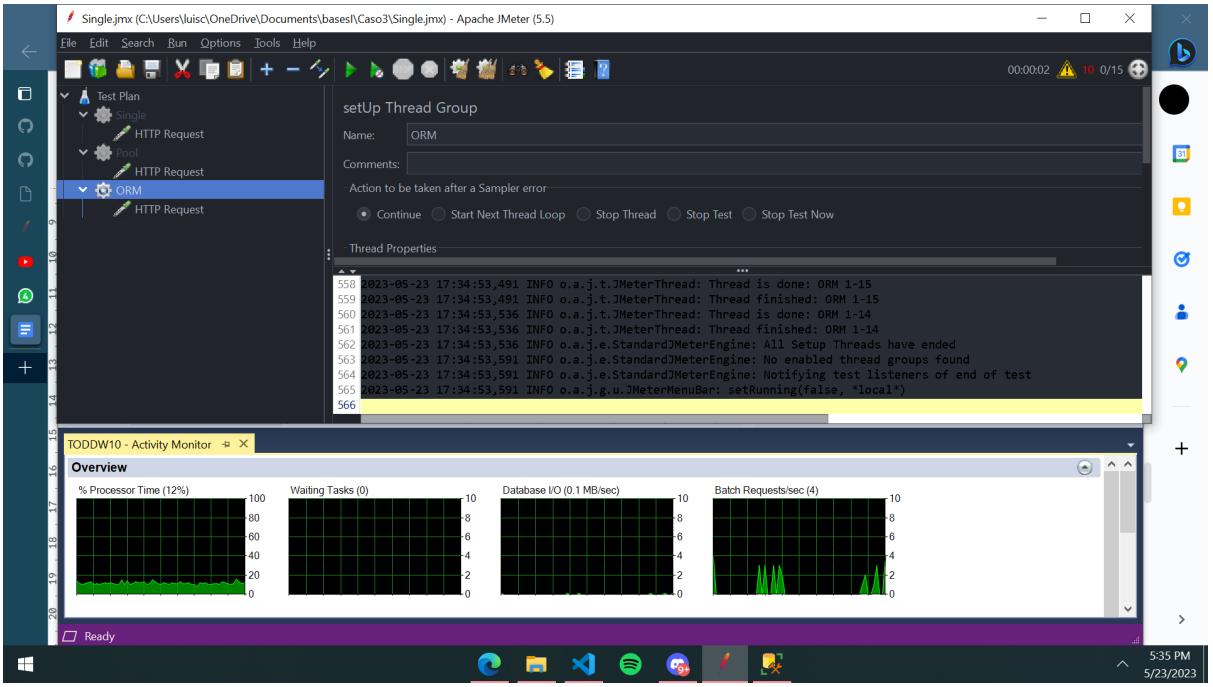



Documento sin título
Archivo Editar Ver Insertar Formato
Single.jmx (C:\Users\luisc\OneDrive\Documents\bases\Caso3\Single.jmx) - Apache JMeter (5.5)
File Edit Search Run Options Tools Help
Test Plan
Single
Pool
HTTP Request
ORM
HTTP Request
setUp Thread Group
Name: ORM
Comments:
Action to be taken after a Sampler error
Continue Start Next Thread Loop Stop Thread Stop Test Stop Test Now
Thread Properties
Number of Threads (users): 15
Ramp-up period (seconds): 1
TODDW10 - Activity Monitor - Microsoft SQL Server Management Studio
File Edit View Tools Window Help
New Query
Execute
TODDW10 - Activity Monitor
Overview
% Processor Time (14%)
Waiting Tasks (0)
Database I/O (0.1 MB/sec)
Batch Requests/sec (4)
Ready
5:25 PM
5/23/2023

Second Test (Ejecutado después de un restart del app)






Single.jmx (C:\Users\luisc\OneDrive\Documents\baseslt\Caso3\Single.jmx) - Apache JMeter (5.5)
File Edit Search Run Options Tools Help
00:00:02 10 0/15
Test Plan
Single
HTTP Request
Pool
HTTP Request
ORM
HTTP Request
setUp Thread Group
Name: ORM
Comments:
Action to be taken after a Sampler error
Continue Start Next Thread Loop Stop Thread Stop Test Stop Test Now
Thread Properties
558 2023-05-23 17:34:53,491 INFO o.a.j.t.JMeterThread: Thread is done: ORM 1-15
559 2023-05-23 17:34:53,491 INFO o.a.j.t.JMeterThread: Thread finished: ORM 1-15
560 2023-05-23 17:34:53,536 INFO o.a.j.t.JMeterThread: Thread is done: ORM 1-14
561 2023-05-23 17:34:53,536 INFO o.a.j.t.JMeterThread: Thread finished: ORM 1-14
562 2023-05-23 17:34:53,536 INFO o.a.j.e.StandardJMeterEngine: All Setup Threads have ended
563 2023-05-23 17:34:53,591 INFO o.a.j.e.StandardJMeterEngine: No enabled thread groups found
564 2023-05-23 17:34:53,591 INFO o.a.j.e.StandardJMeterEngine: Notifying test listeners of end of test
565 2023-05-23 17:34:53,591 INFO o.a.j.g.u.JMeterMenuBar: setRunning(false, *local*)
566
TODDW10 - Activity Monitor
Overview
% Processor Time (12%)
Waiting Tasks (0)
Database I/O (0.1 MB/sec)
Batch Requests/sec (4)
Ready
5:35 PM
5/23/2023