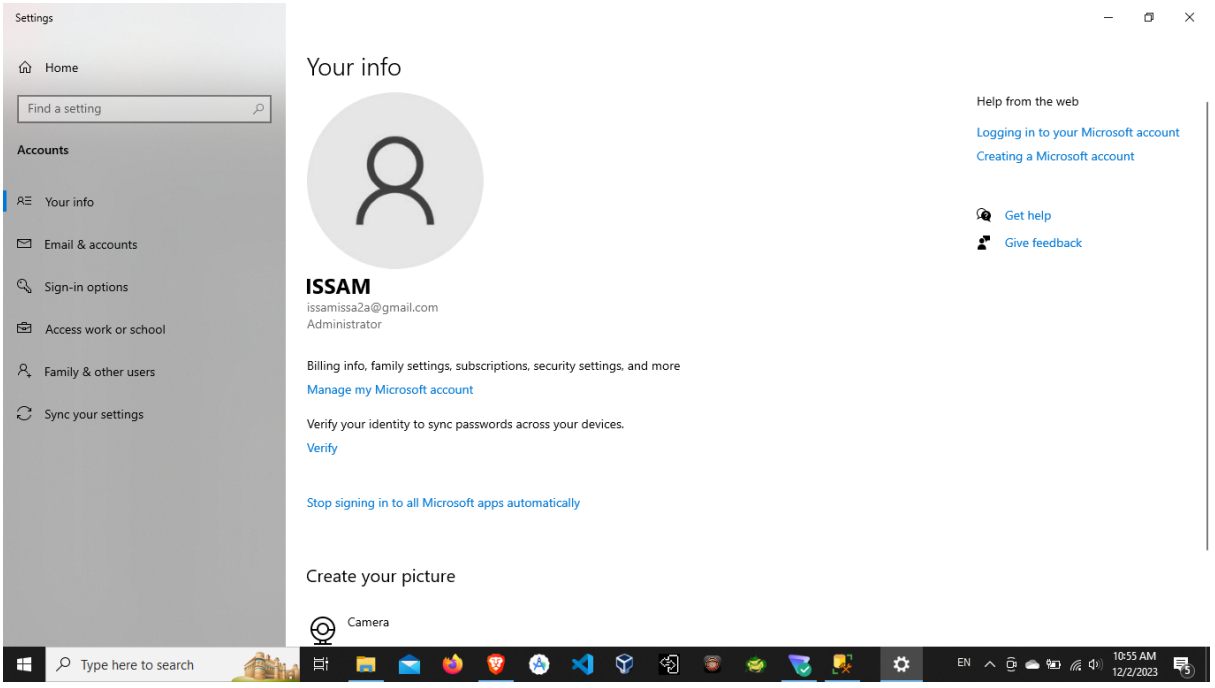
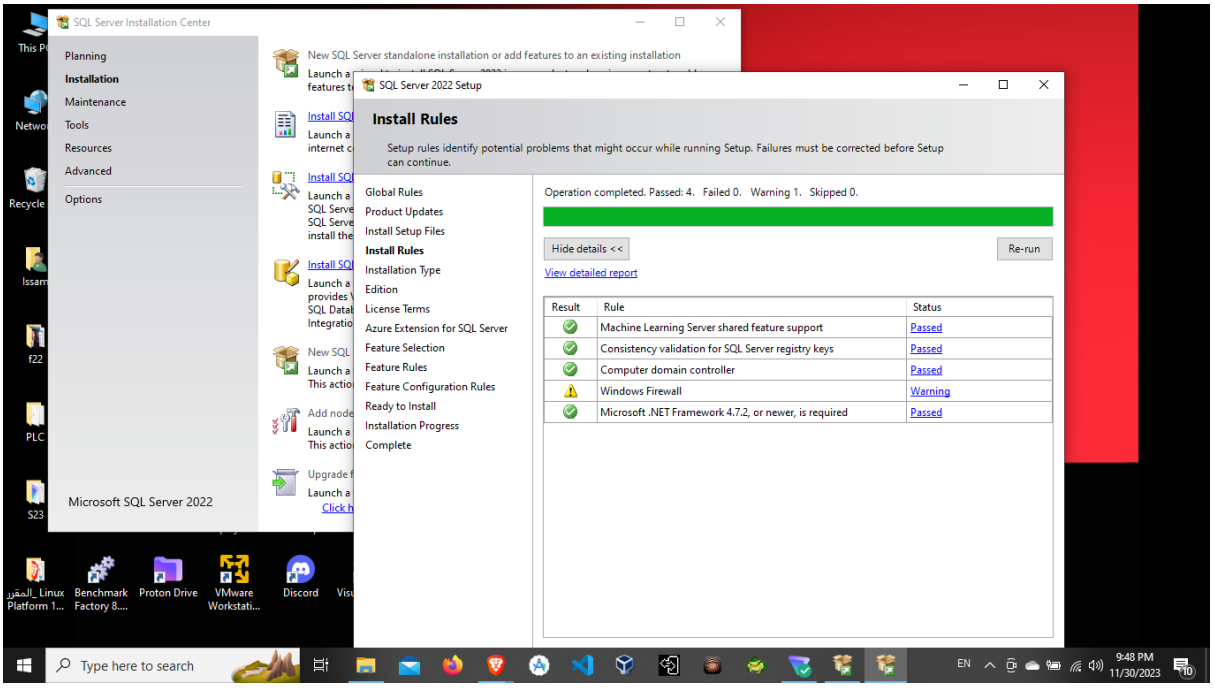
IIS404_S23_Assignment

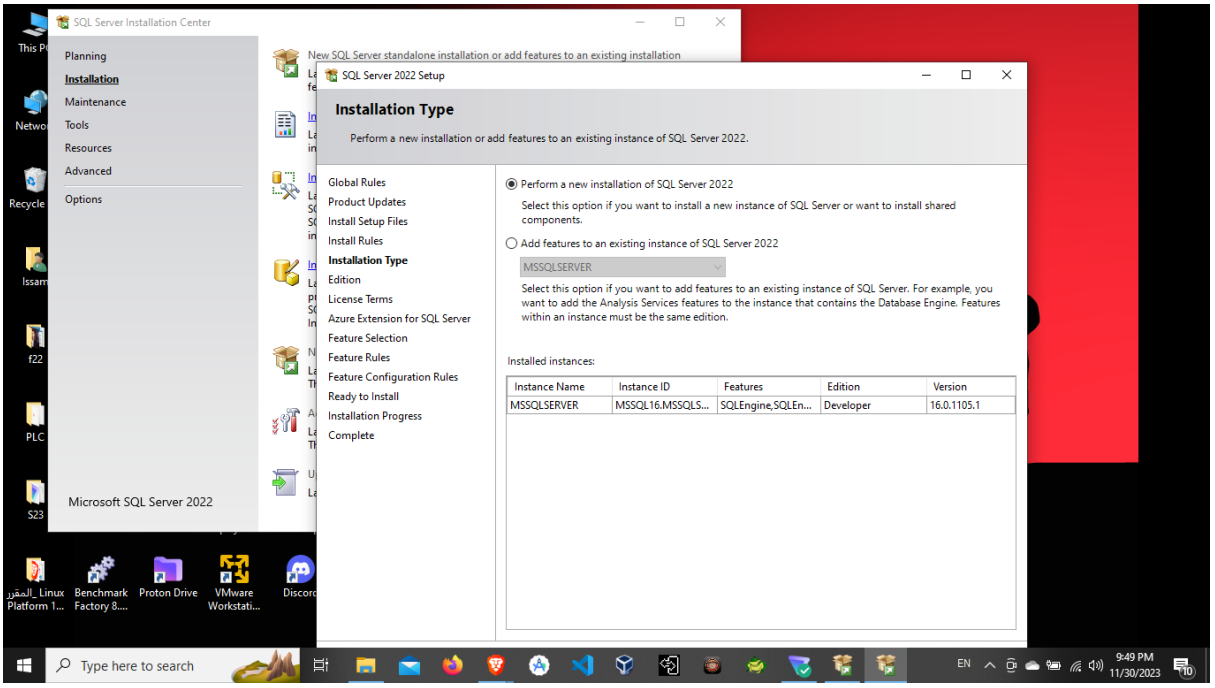
Student	Essam Issa
Student ID :	Essam_177361
@ Email	essam_177361@svuonline.org
Class	C2
Supervised By:	Eng.Ayham Ferzat Mohammad



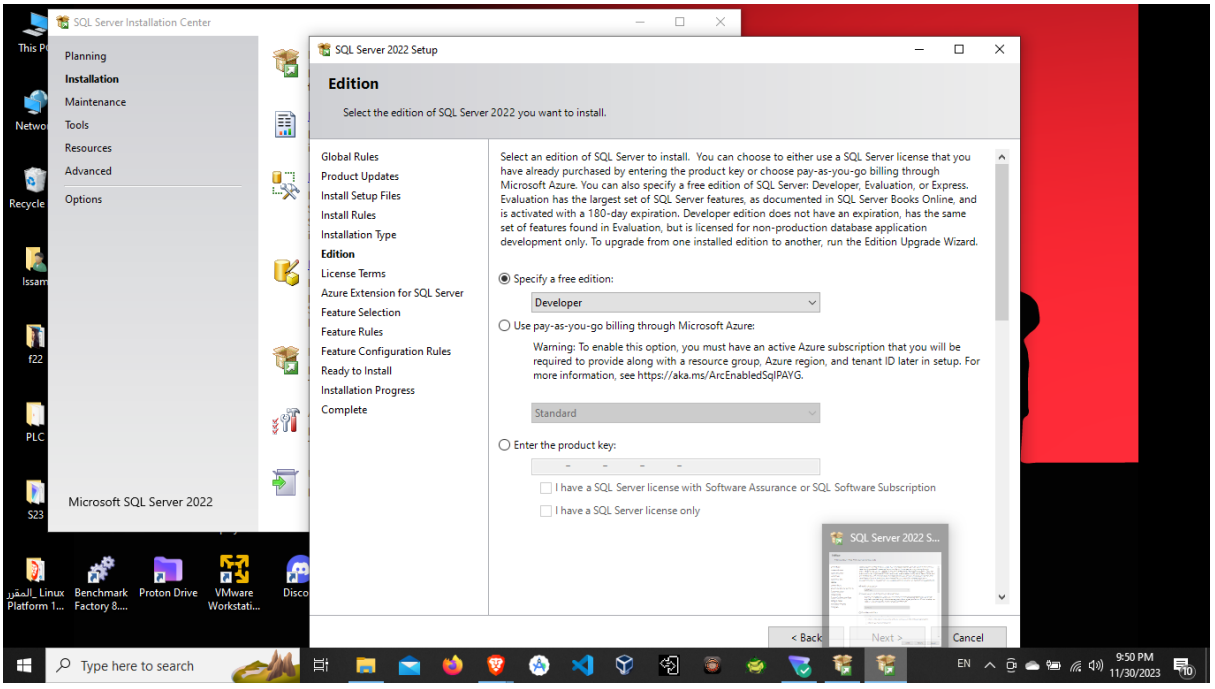
The SQL Server stand alone Installation steps :



Preforming a new installation of the new sql server instance



Choosing sql server Edition : Developer


SQL Server Installation Center
Planning
Installation
Maintenance
Tools
Resources
Advanced
Options
Microsoft SQL Server 2022
SQL Server 2022 Setup
Edition
Select the edition of SQL Server 2022 you want to install.
Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Edition
License Terms
Azure Extension for SQL Server
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Select an edition of SQL Server to install. You can choose to either use a SQL Server license that you have already purchased by entering the product key or choose pay-as-you-go billing through Microsoft Azure. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.
Specify a free edition:
Developer
Use pay-as-you-go billing through Microsoft Azure:
Warning: To enable this option, you must have an active Azure subscription that you will be required to provide along with a resource group, Azure region, and tenant ID later in setup. For more information, see https://aka.ms/ArcEnabledSqlPAYG.
Standard
Enter the product key:
I have a SQL Server license with Software Assurance or SQL Software Subscription
I have a SQL Server license only
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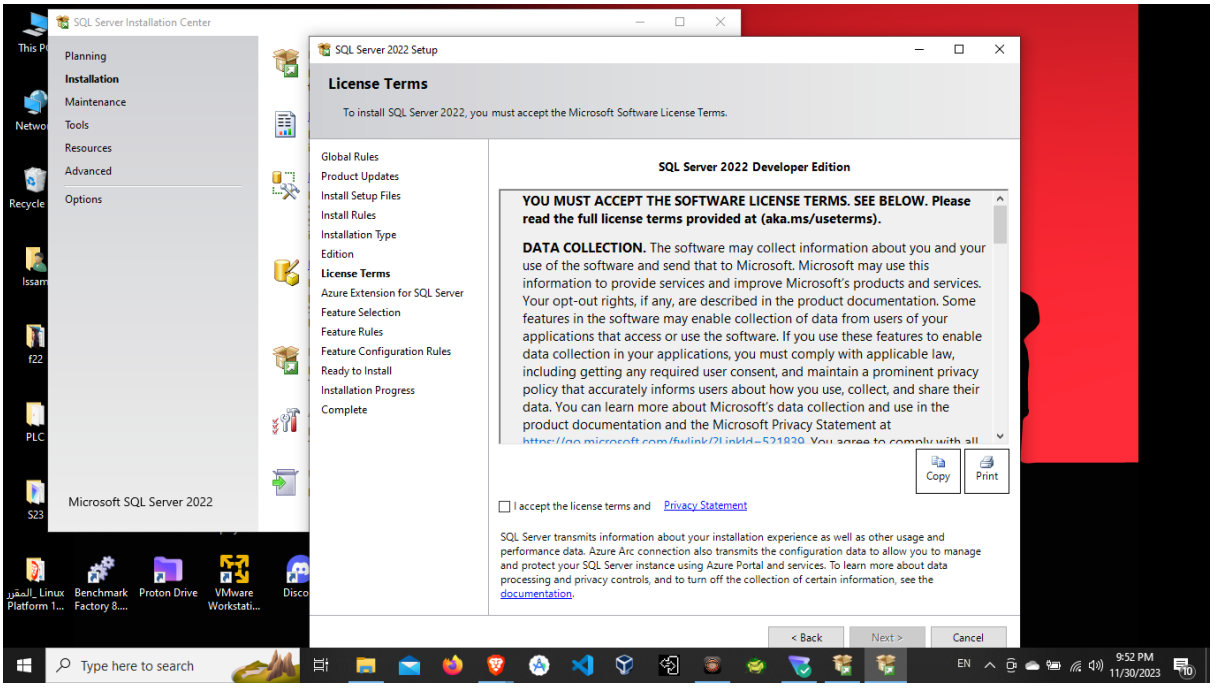
SQL Server Installation Center
Planning
Installation
Maintenance
Tools
Resources
Advanced
Options
Microsoft SQL Server 2022
SQL Server 2022 Setup
License Terms
To install SQL Server 2022, you must accept the Microsoft Software License Terms.
Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Edition
License Terms
Azure Extension for SQL Server
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
SQL Server 2022 Developer Edition
YOU MUST ACCEPT THE SOFTWARE LICENSE TERMS. SEE BELOW. Please read the full license terms provided at (aka.ms/useterms).
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SQL Server transmits information about your installation experience as well as other usage and performance data. Azure Arc connection also transmits the configuration data to allow you to manage and protect your SQL Server instance using Azure Portal and services. To learn more about data processing and privacy controls, and to turn off the collection of certain information, see the documentation.
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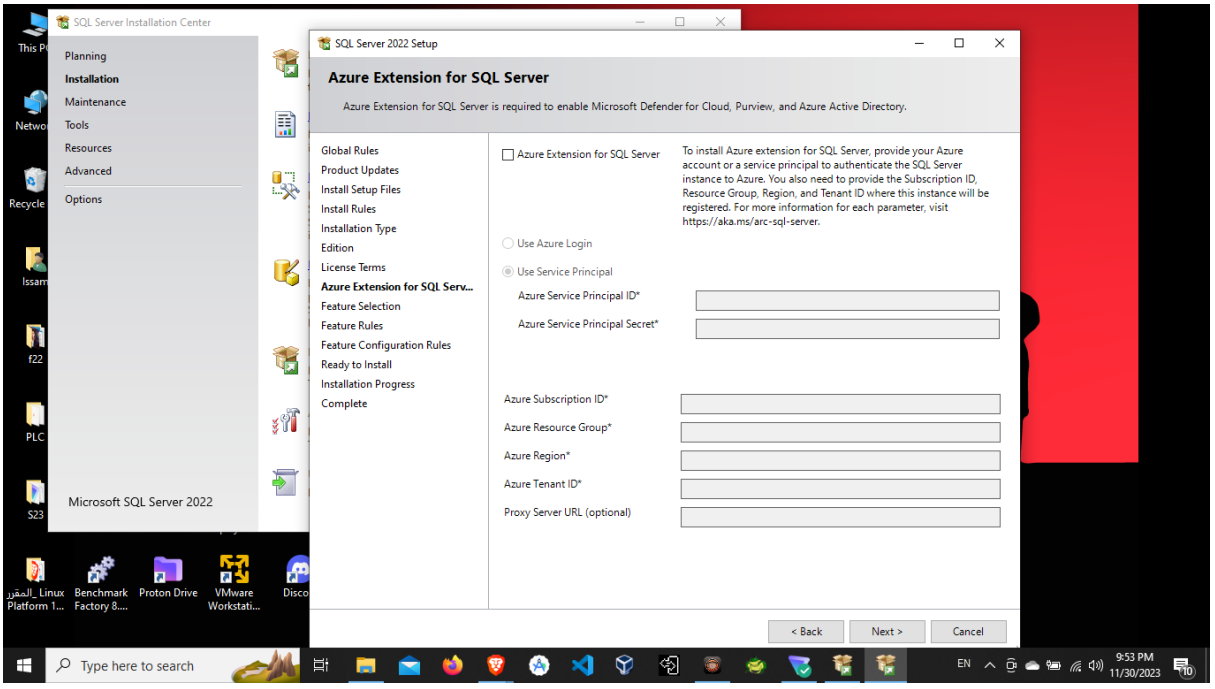
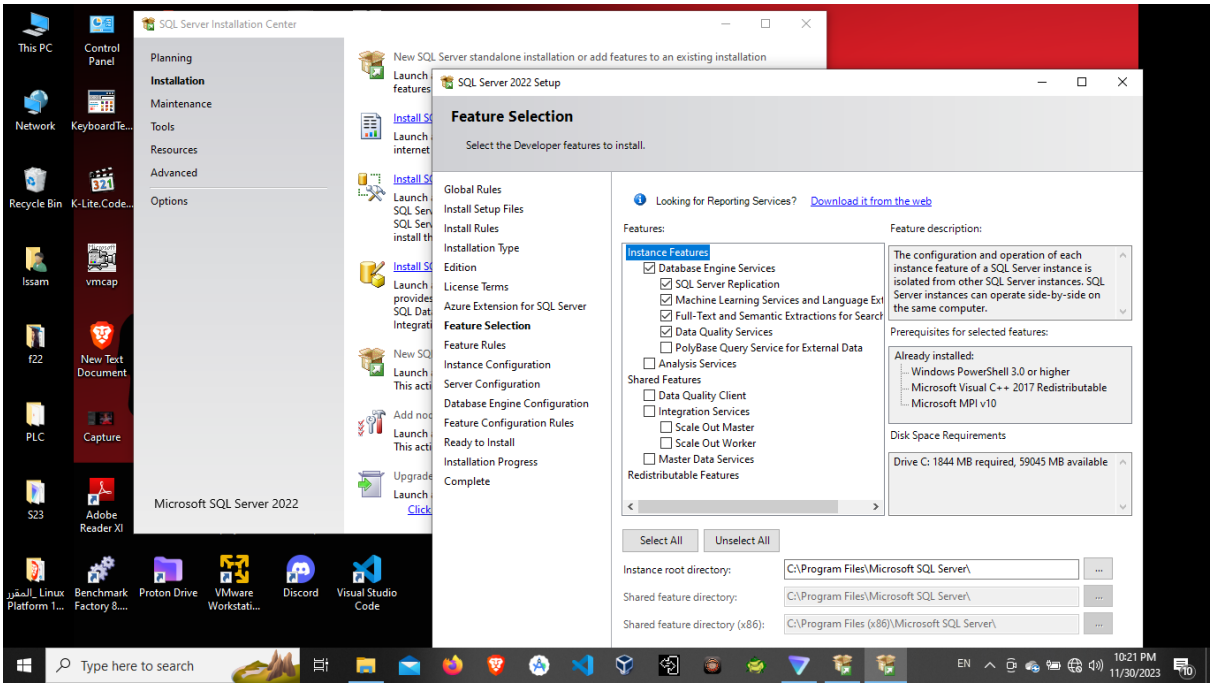
11/30/2023



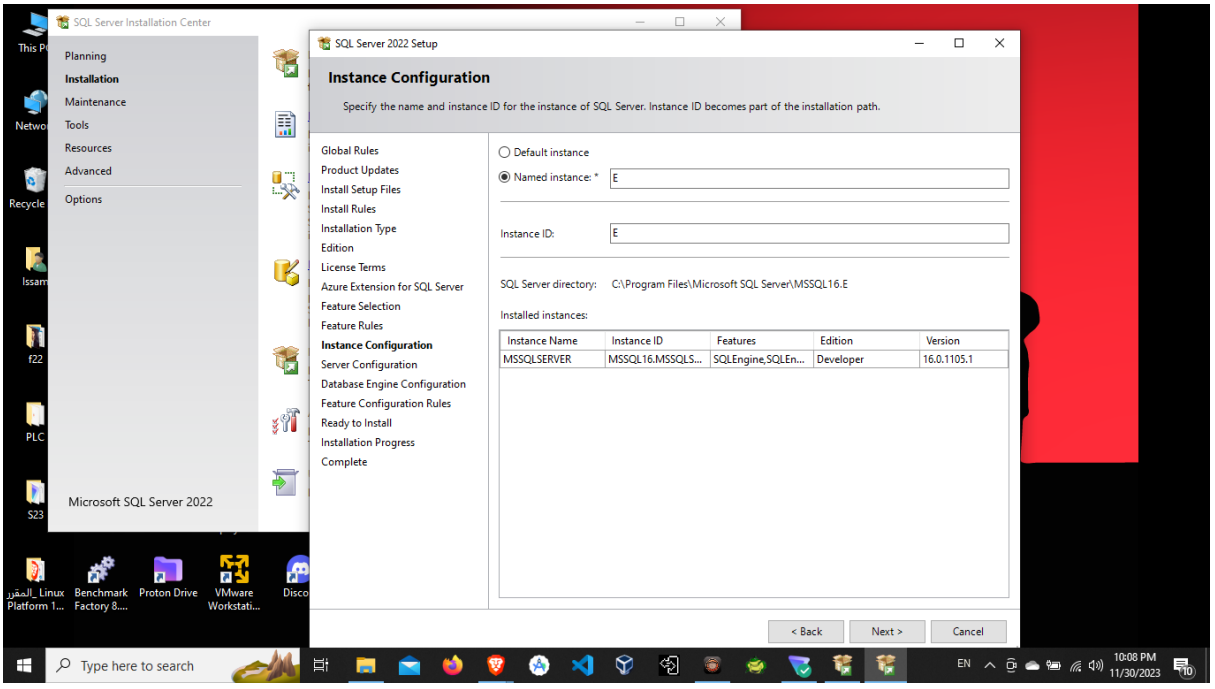
Selecting "Database Engine Services", "SQL Server Replication", and any other desired features.



Selecting Instance Configuration:

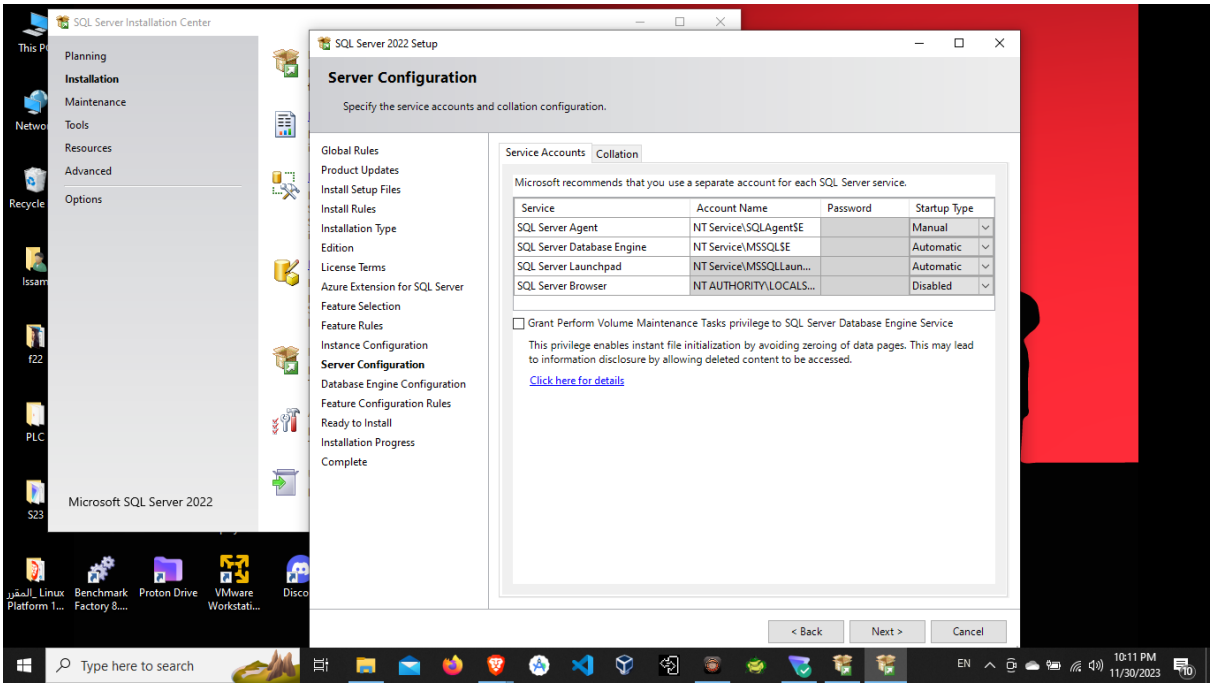
- Choosing the instance name

- since there’s only me on the assignment and according to the requirement the instance name would be ” E “



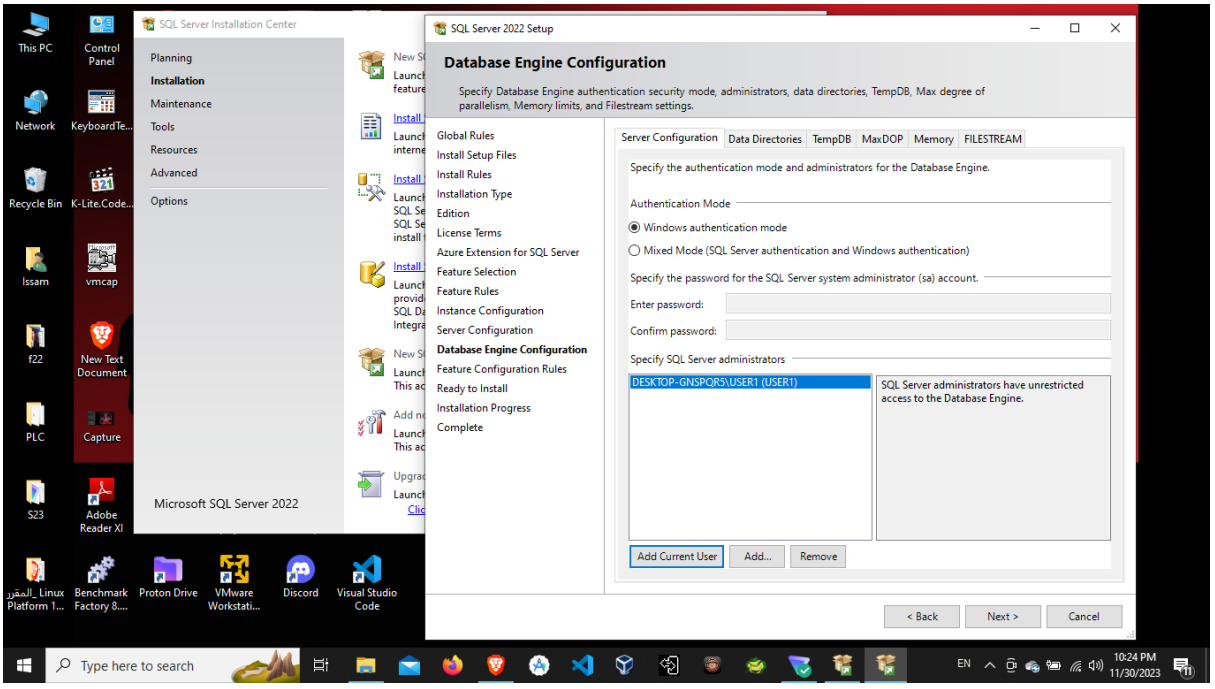
server configuration :

specifying the service accounts that SQL Server services will run under.

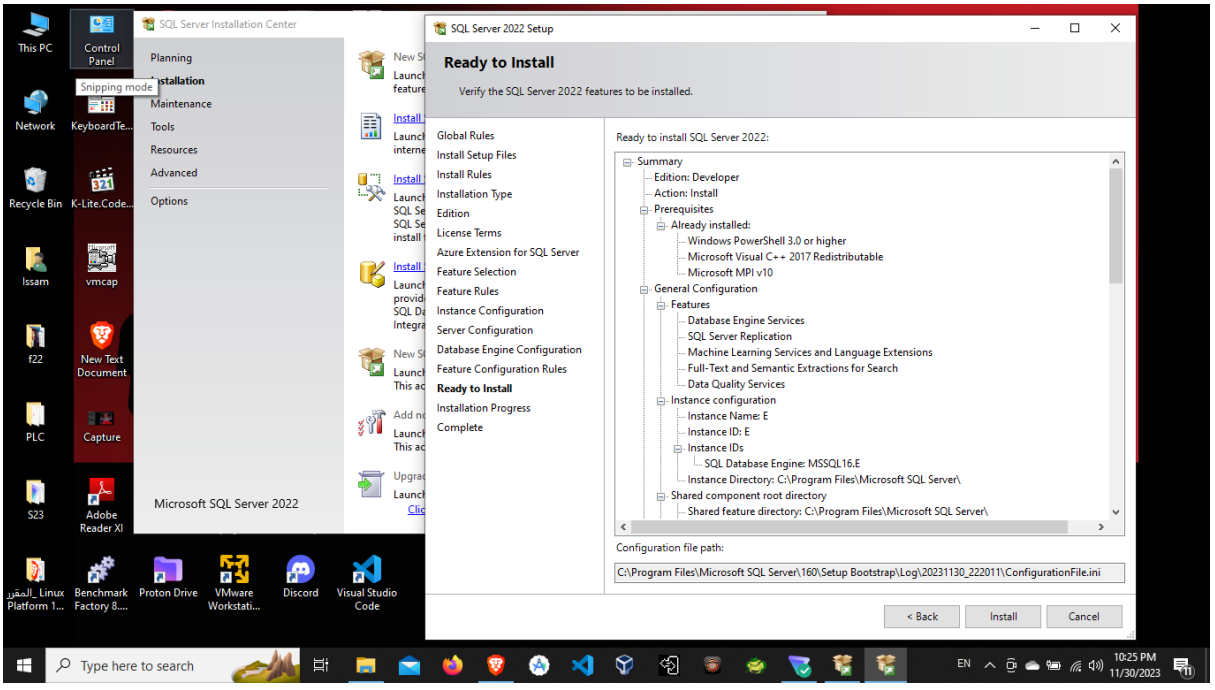


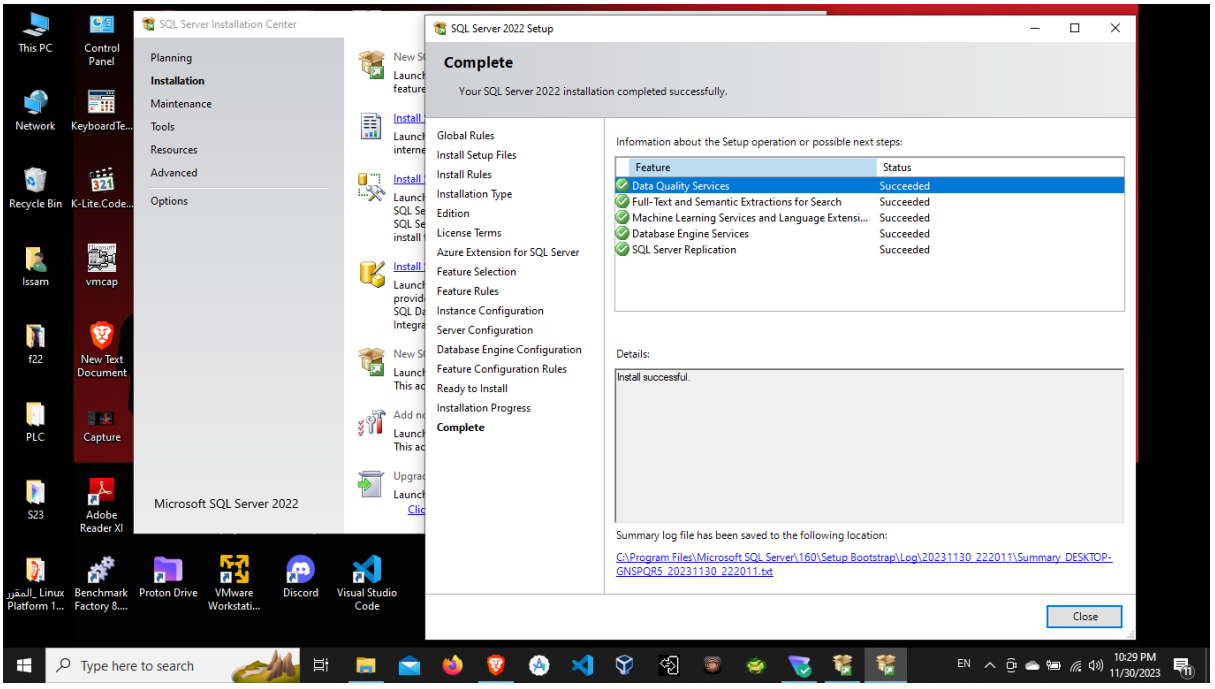
Selecting Database Engine Configuration:

- Specifying SQL Server administrators and service accounts.



Ready to install

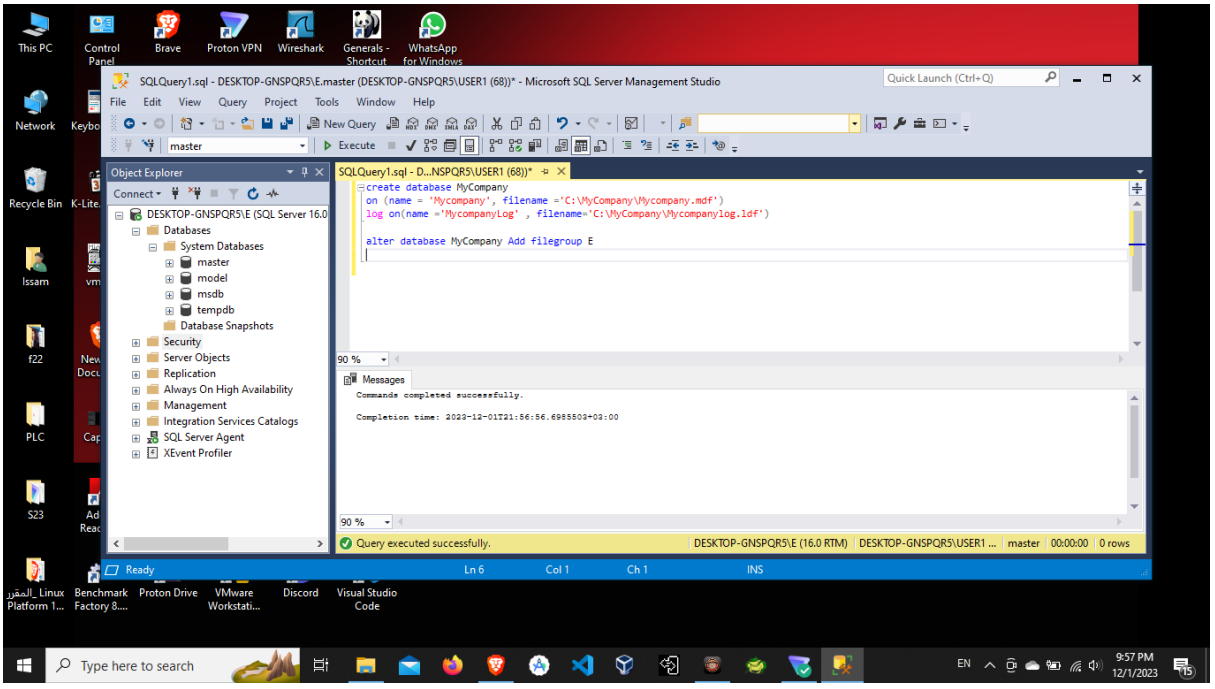




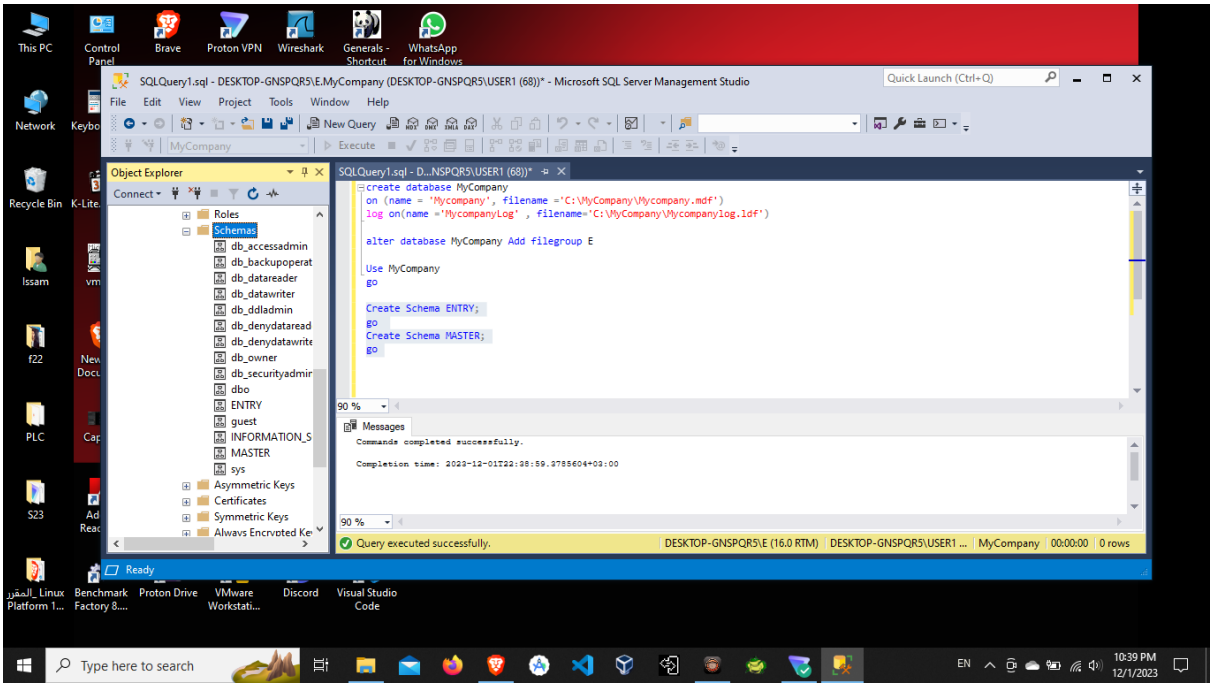
1-Creating the database with filegroup ：

What this code does:

- It adds a new filegroup named "E" to the existing database "Mycompany".
- A filegroup is a logical container for data files in a database.
- Adding a filegroup allows subsequently adding more physical data files to help partition/distribute data across files.
- It also enables features like partitioning, compression at the filegroup level.
- this ALTER DATABASE statement simply adds a new empty filegroup called "E" to the given database, which can then be utilized as needed for various data management purposes.

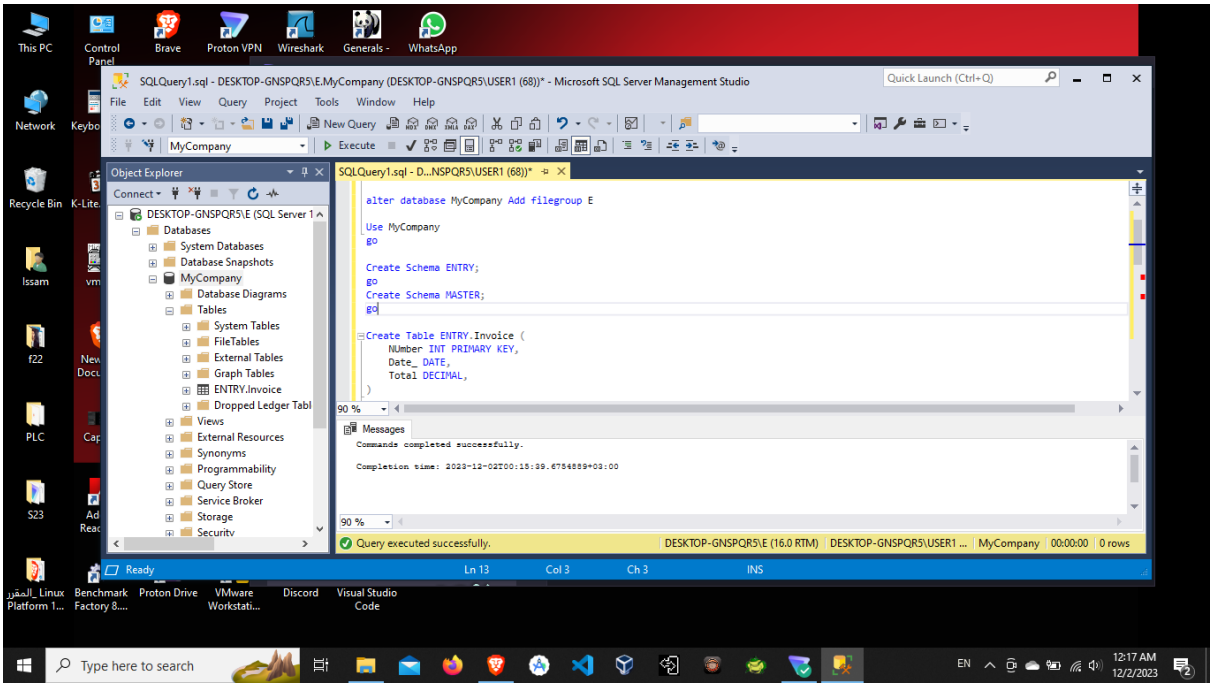


1-1Creating schemas :

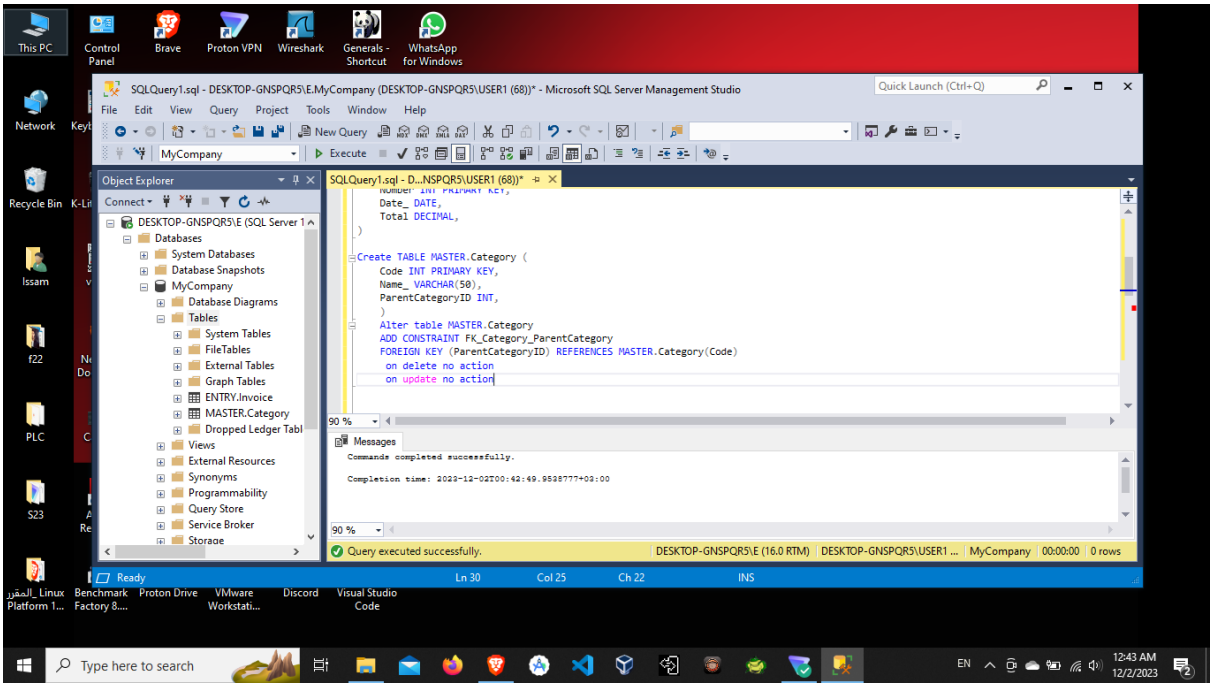


-Creating tables :

-1 creating table ENTRY.invoice :



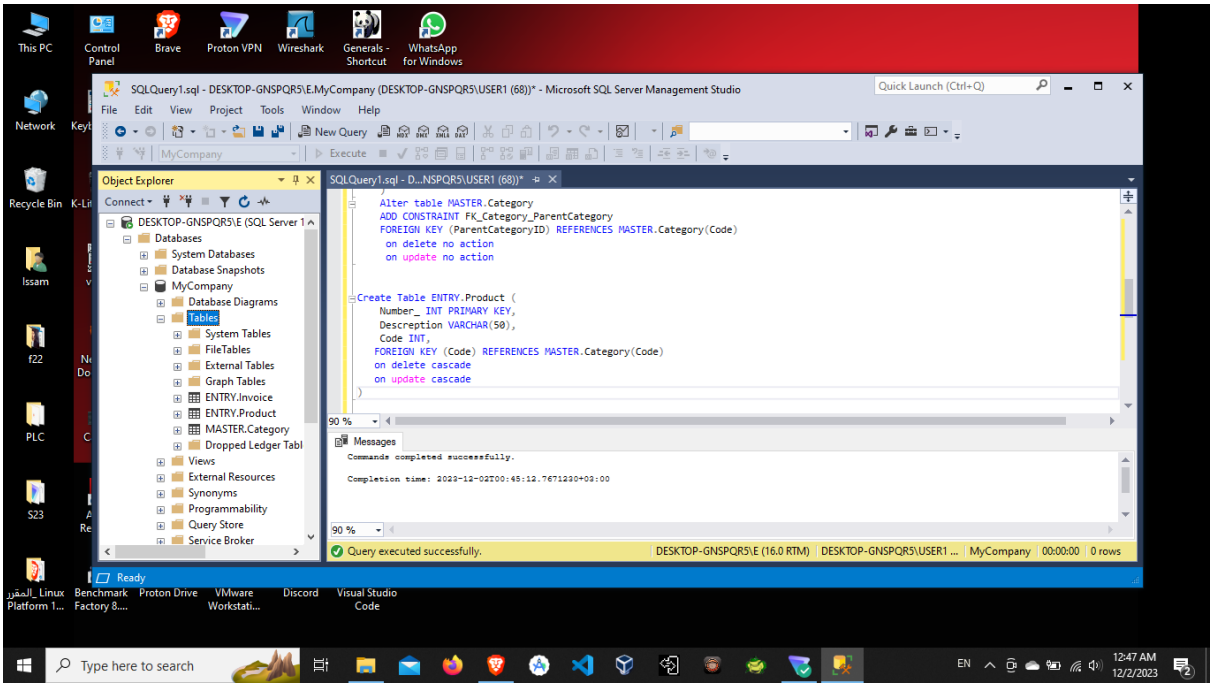
-2 creating table MASTER.Category :



the "Category" table has a foreign key column called "ParentCategoryID" that references the primary key column "Code" of the same table. This self-referencing

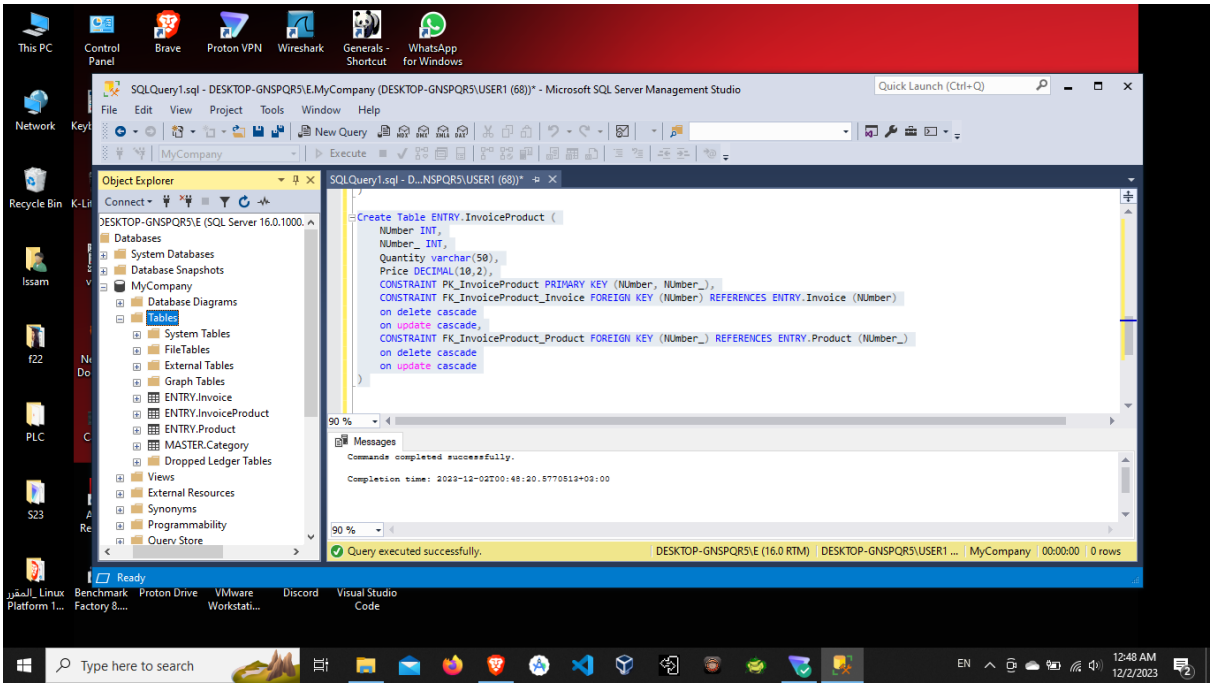
foreign key establishes the hierarchical relationship between categories.

-3 creating table ENTRY.Product:

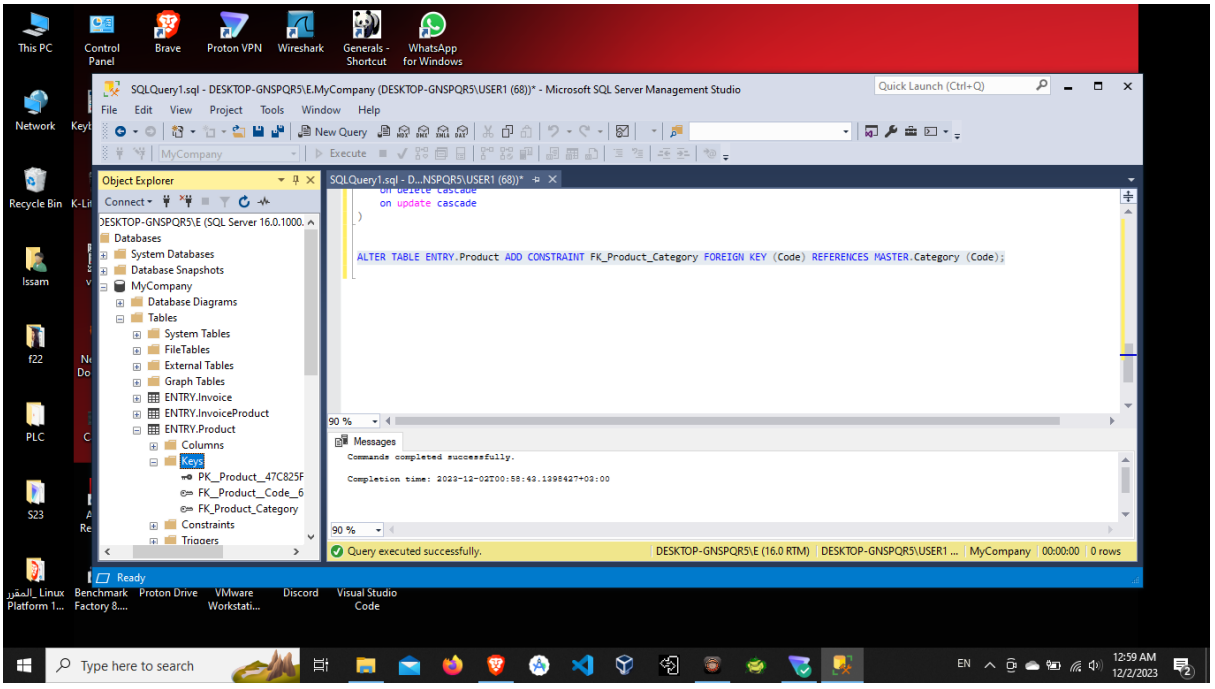


-4 creating junction table invoiceproduct :

The "InvoiceProduct" table is a junction table that facilitates the many-to-many relationship between the "Invoice" and "Product" tables.



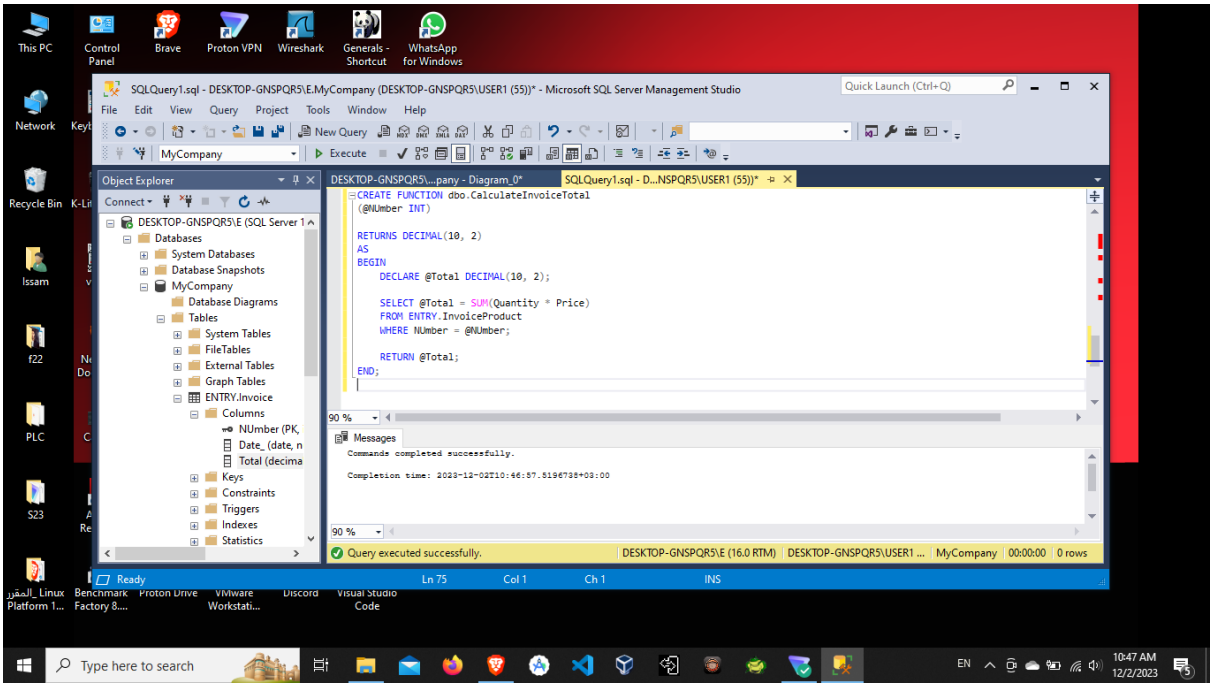
the "Category" table is part of the "MASTER" schema, and the "Product" table has a foreign key relationship with the "Category" table



1.2. Create the calculated field [Total] as a functions.

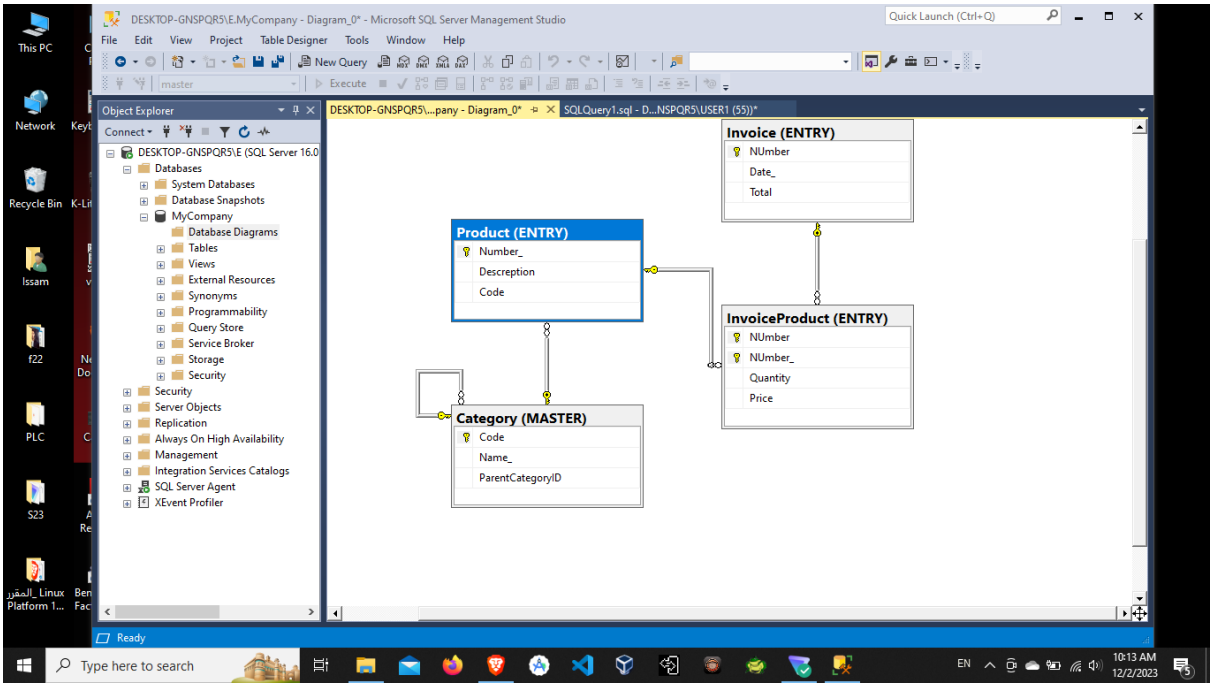
This function takes an `@ NUmber` parameter and uses it to filter the related products in the "InvoiceProduct" table. It calculates the sum of each product's total using the

formula `Quantity * Price` and returns the overall `Total` for the invoice.




```
SELECT dbo.CalculateInvoiceTotal(NUmber) AS Total
FROM ENTRY.InvoiceProduct;
```

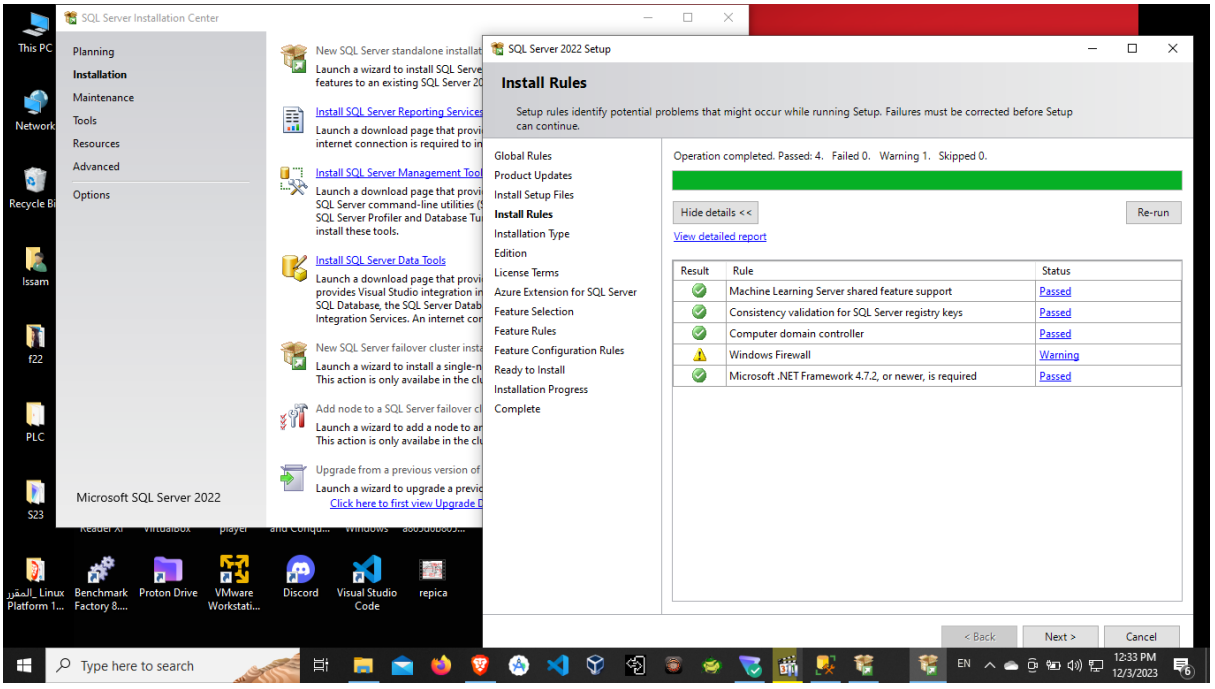
1.3.Generate the database diagram.

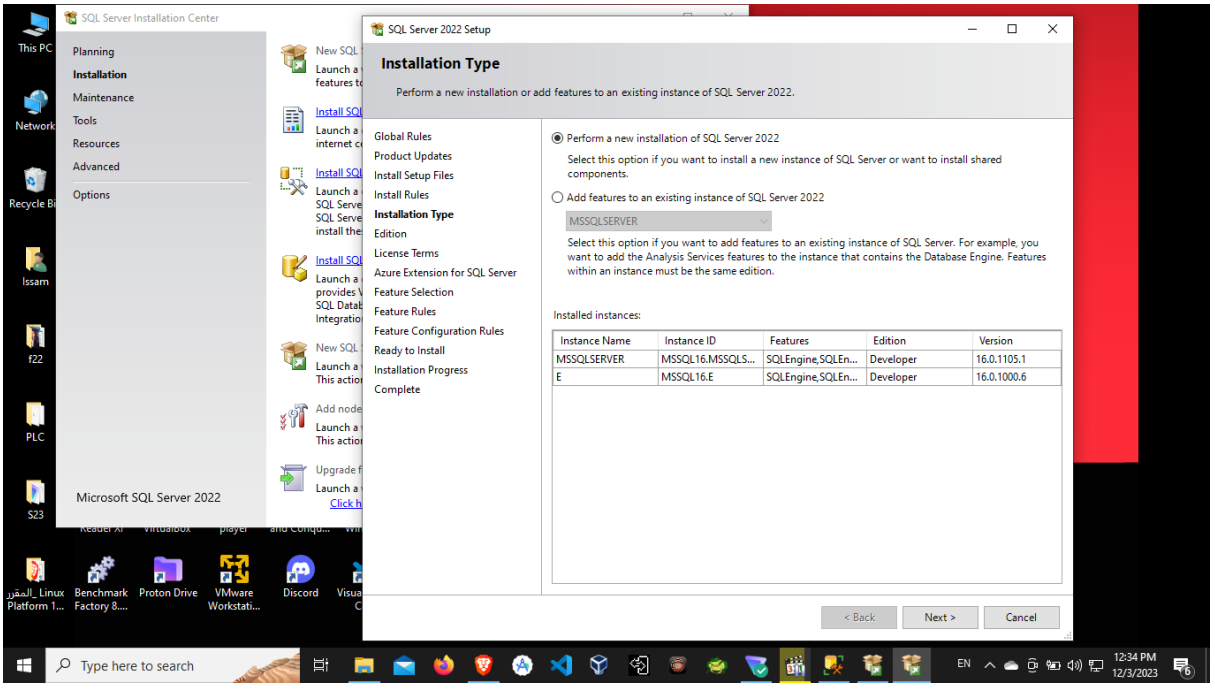


2. Replication:

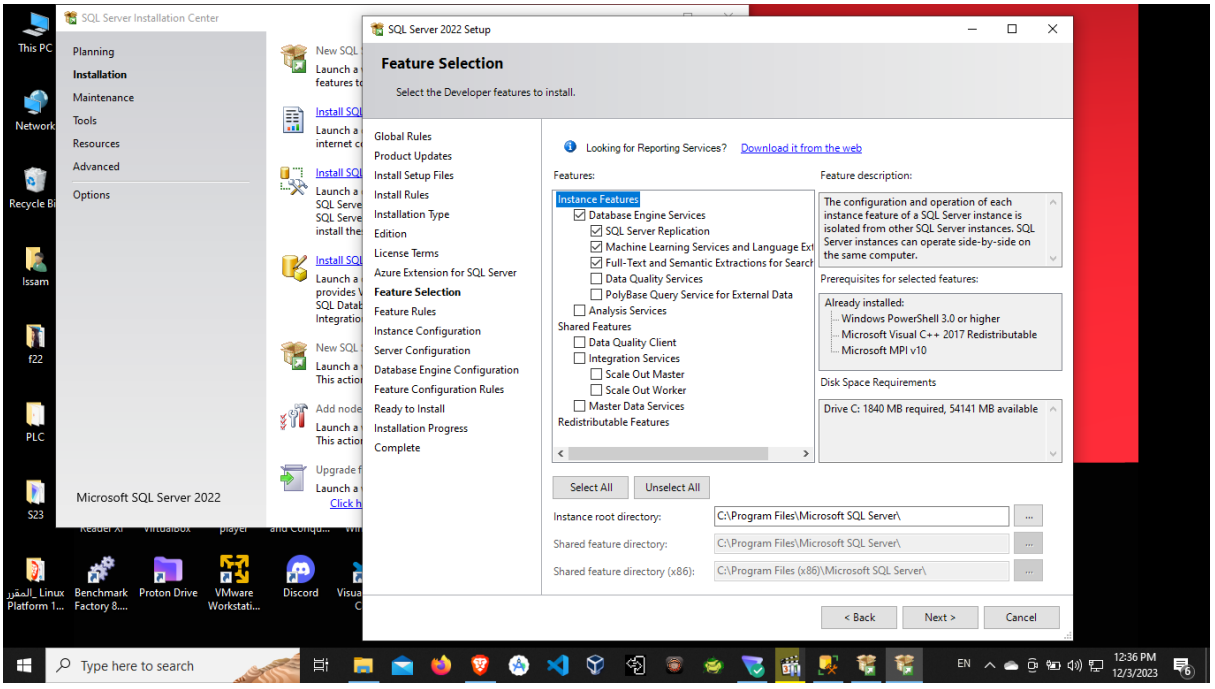
2.1.Install another instance of SQL Server called “Replica” will be a read-write replica as well, choose replication type and justify your choice.

installation steps of replica instance :

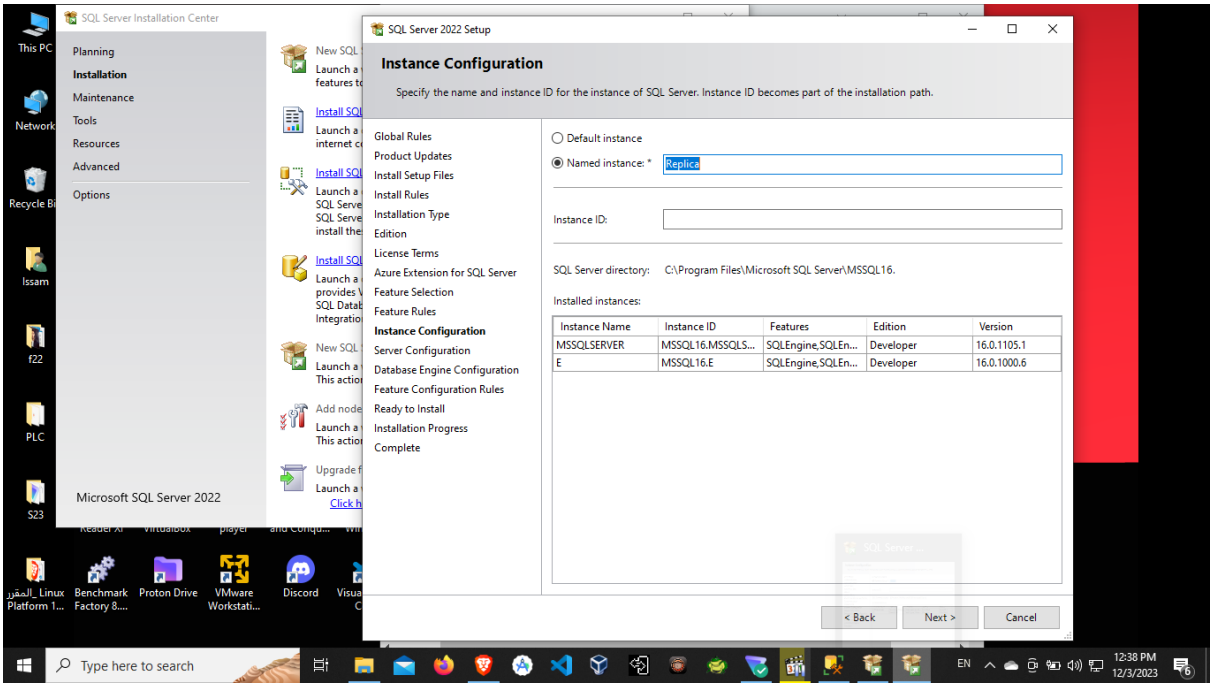




the replication feature should be selected :



naming the instance :


SQL Server Installation Center
Planning
Installation
Maintenance
Tools
Resources
Advanced
Options
Microsoft SQL Server 2022
SQL Server 2022 Setup
Instance Configuration
Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.
Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Edition
License Terms
Azure Extension for SQL Server
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Default instance
Named instance: *
Replica
Instance ID:
SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL16.
Installed instances:
Instance Name
Instance ID
Features
Edition
Version
MSSQLSERVER
MSSQL16.MSSQLS...
SQLEngine,SQLEn...
Developer
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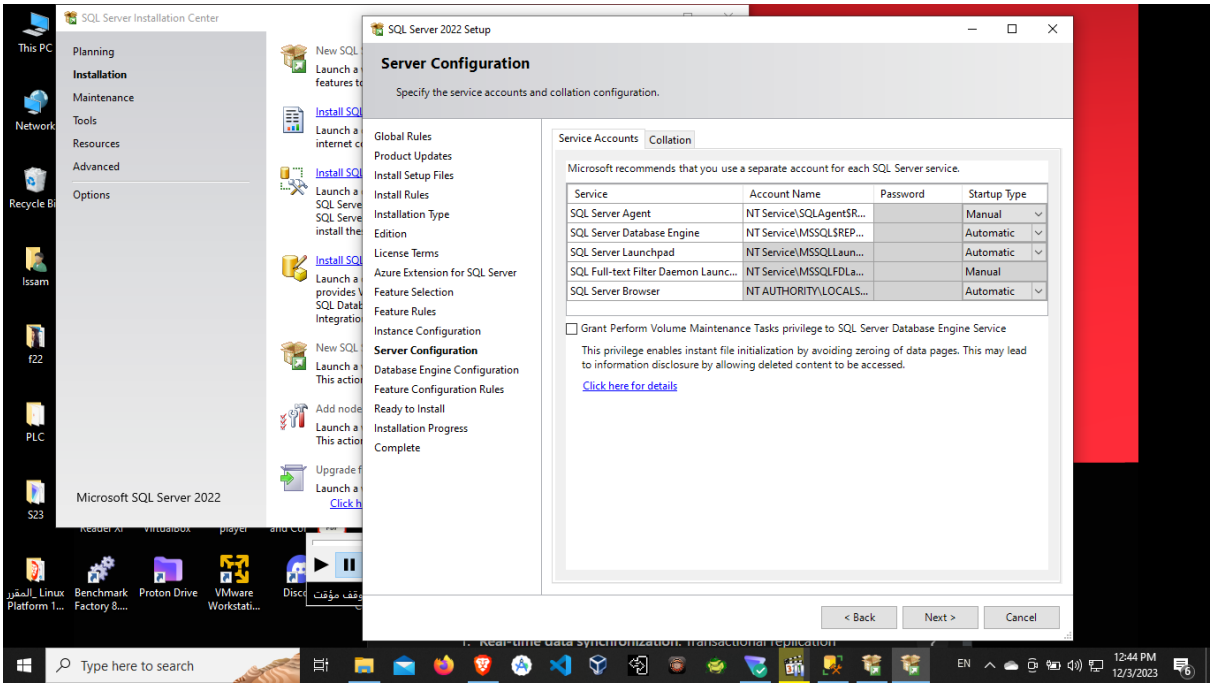
SQL Server Installation Center
Planning
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Maintenance
Tools
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Advanced
Options
Microsoft SQL Server 2022
SQL Server 2022 Setup
Server Configuration
Specify the service accounts and collation configuration.
Global Rules
Product Updates
Install Setup Files
Install Rules
Installation Type
Edition
License Terms
Azure Extension for SQL Server
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete
Service Accounts
Collation
Microsoft recommends that you use a separate account for each SQL Server service.
Service
Account Name
Password
Startup Type
SQL Server Agent
NT Service\SQLAgent$R...
Manual
SQL Server Database Engine
NT Service\MSSQL$REP...
Automatic
SQL Server Launchpad
NT Service\MSSQLLaun...
Automatic
SQL Full-text Filter Daemon Launc...
NT Service\MSSQLFDLa...
Manual
SQL Server Browser
NT AUTHORITY\LOCALS...
Automatic
Grant Perform Volume Maintenance Tasks privilege to SQL Server Database Engine Service
This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.
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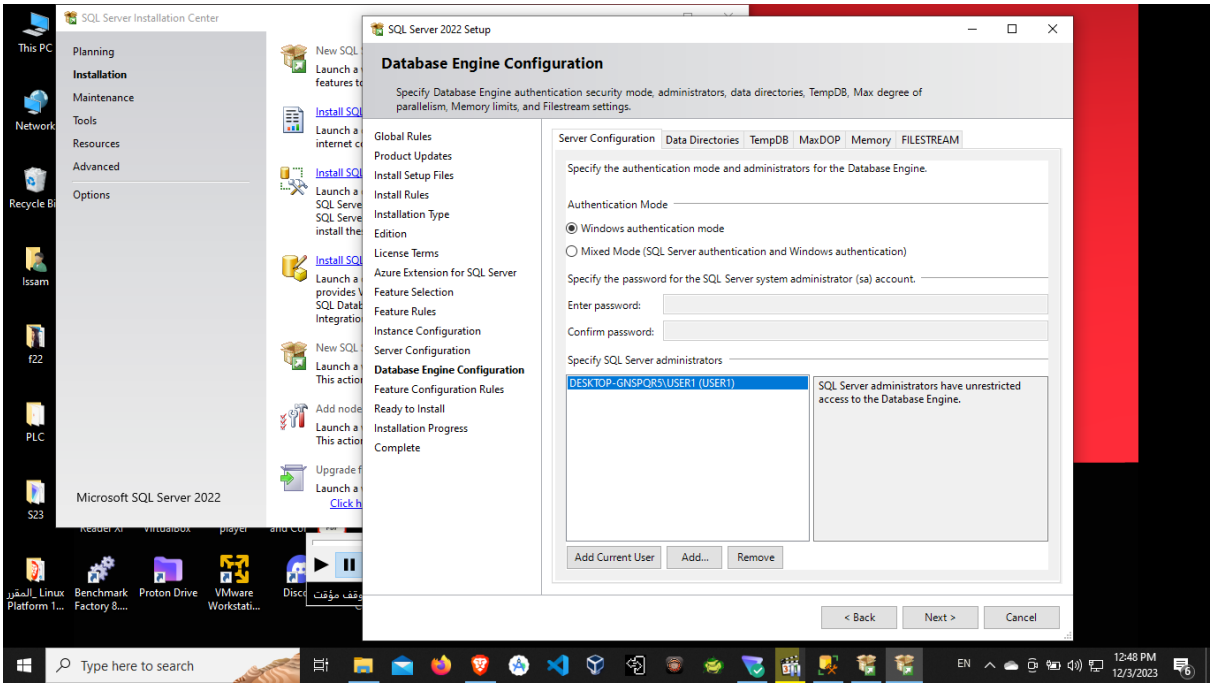
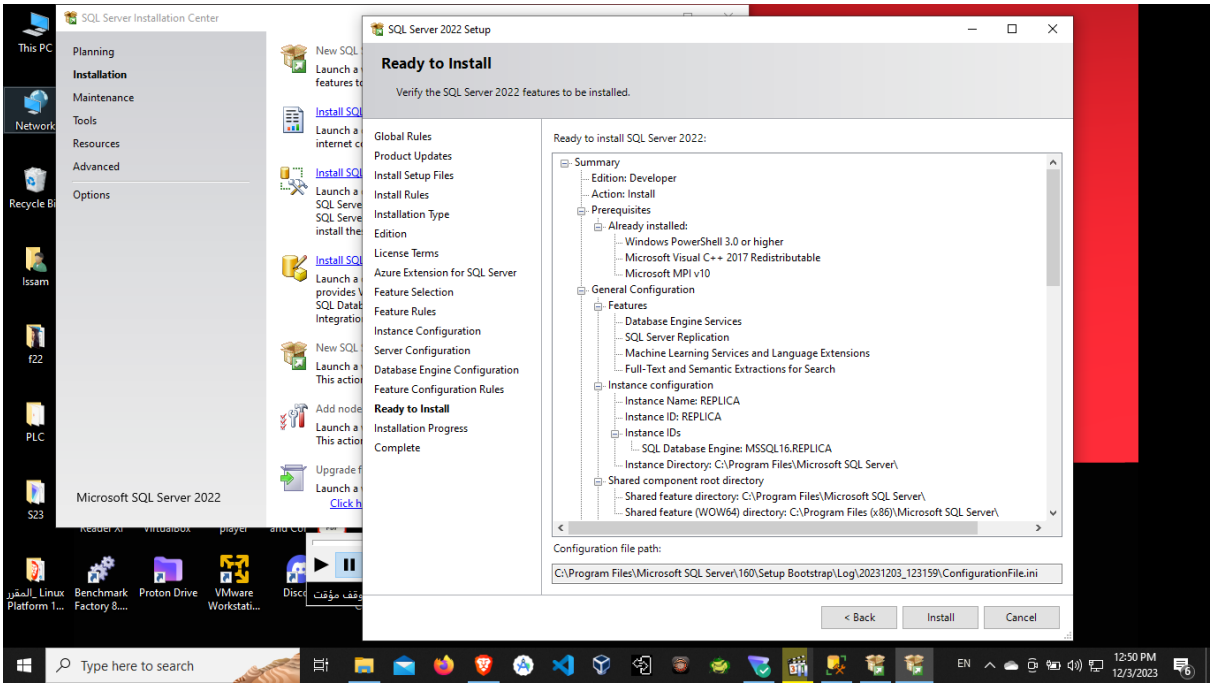


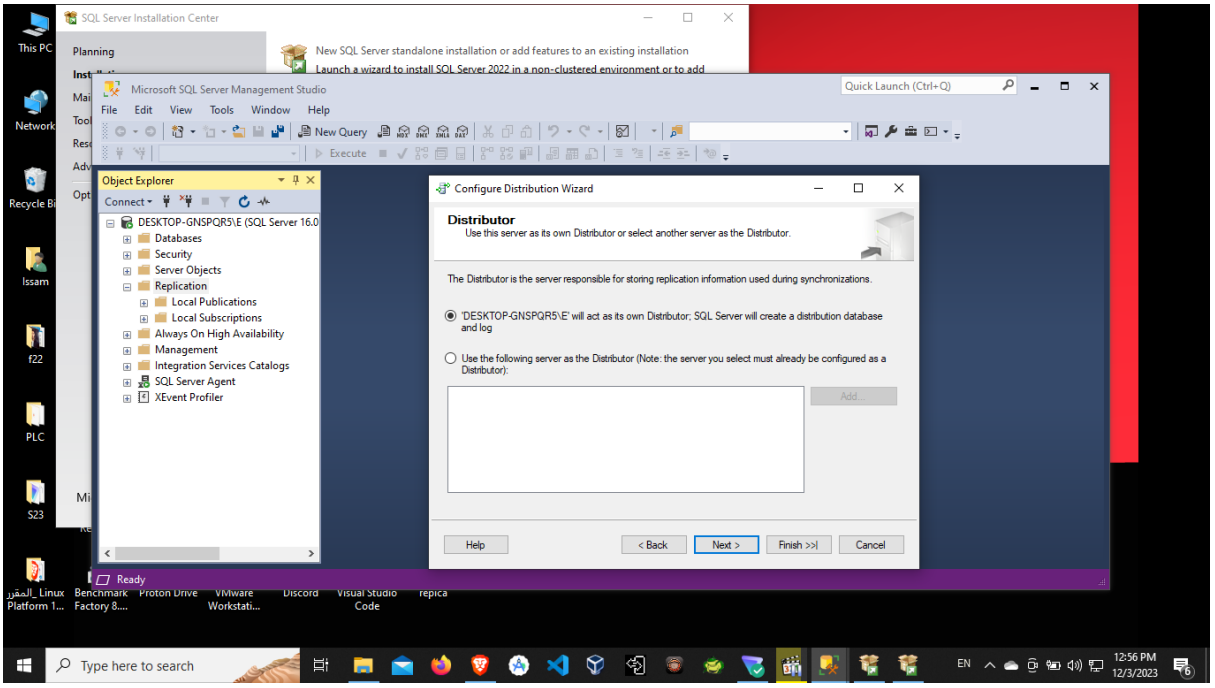
ready to install :



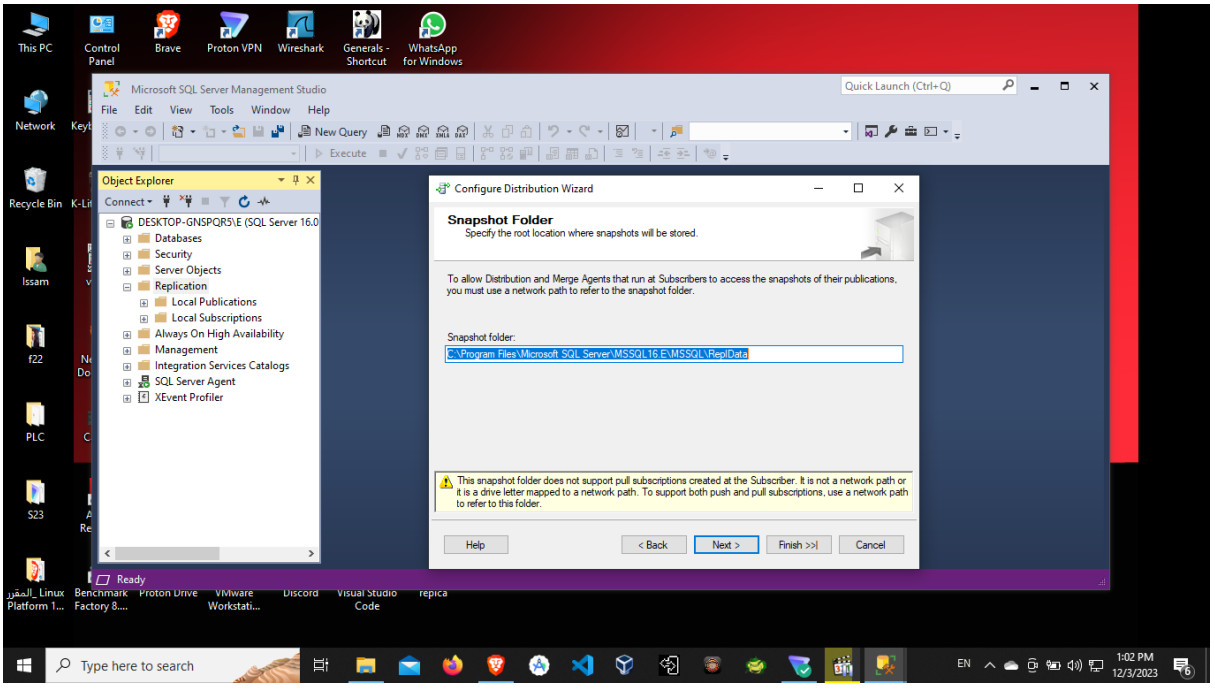
Configure the replication distribution :

Determine the SQL Server instance that will act as the distributor. The distributor manages the replication metadata and coordinates the delivery of changes to subscribers.

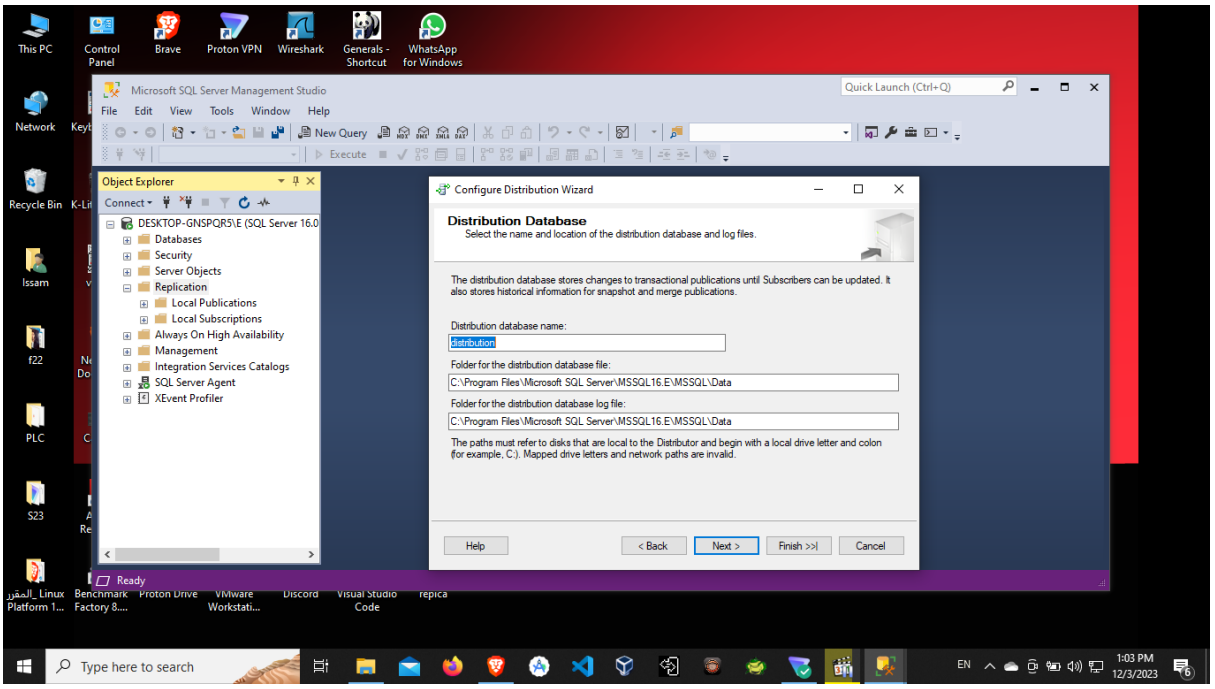
in my case it would be **DESKTOP-GNSPQR5\E**



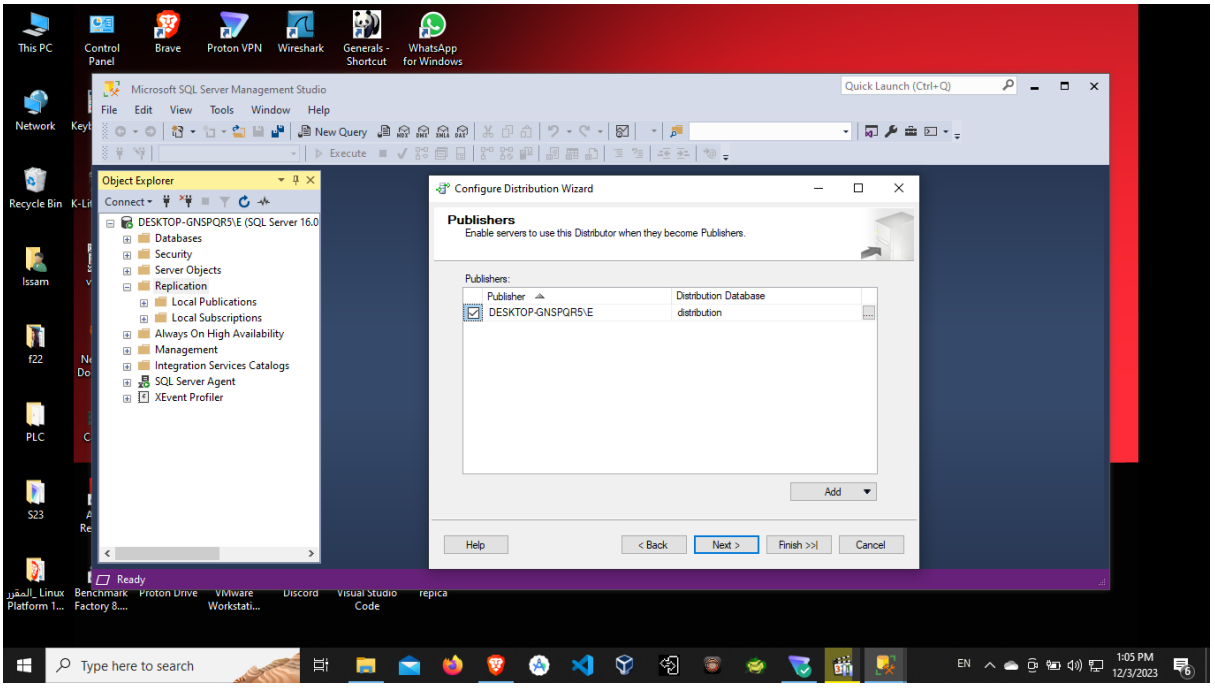
specifying the root location where snapshot will be stored :



Creating the distribution database on the distributor server. The distribution database stores metadata and transactional information for replication.



Configure the SQL Server instances that will act as publishers. In the publisher configuration, I will specify the distributor and the distribution database. This allows publishers to communicate with the distributor and use the distribution database for replication.


Microsoft SQL Server Management Studio
Object Explorer
Configure Distribution Wizard
Publishers
Enable servers to use this Distributor when they become Publishers.
Publishers:
Publisher
Distribution Database
DESKTOP-GNSPQR5\E
distribution
Add
Help
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Next >
Finish >>|
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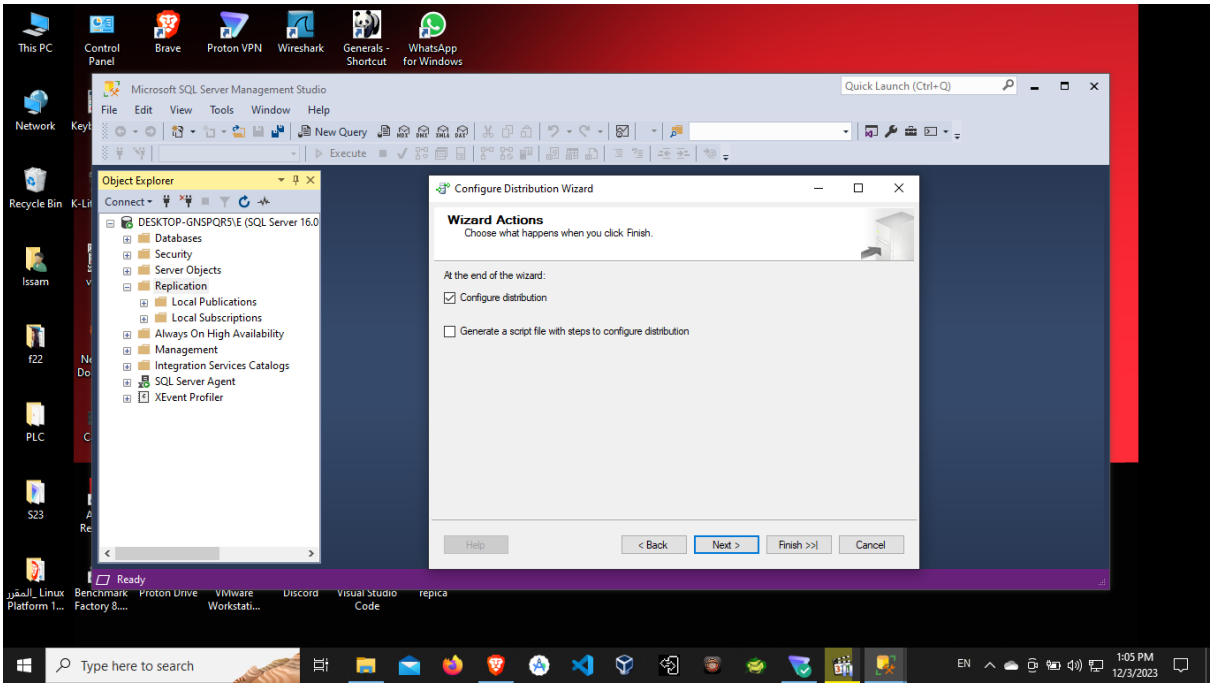
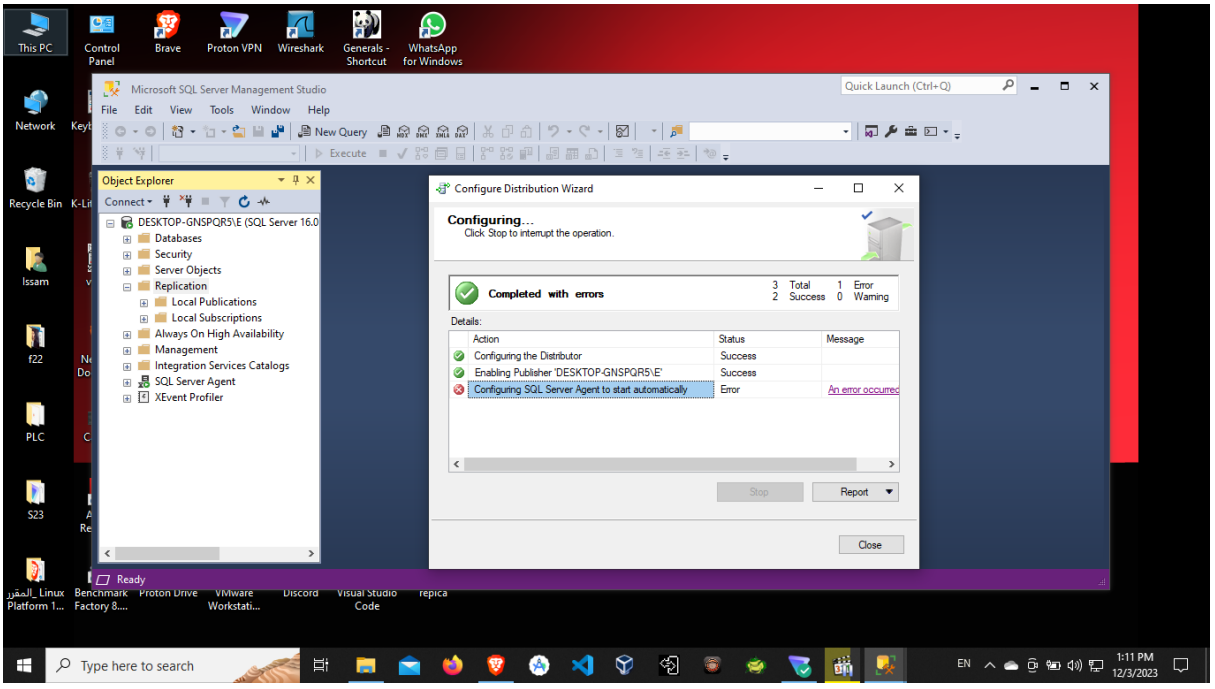
Ready

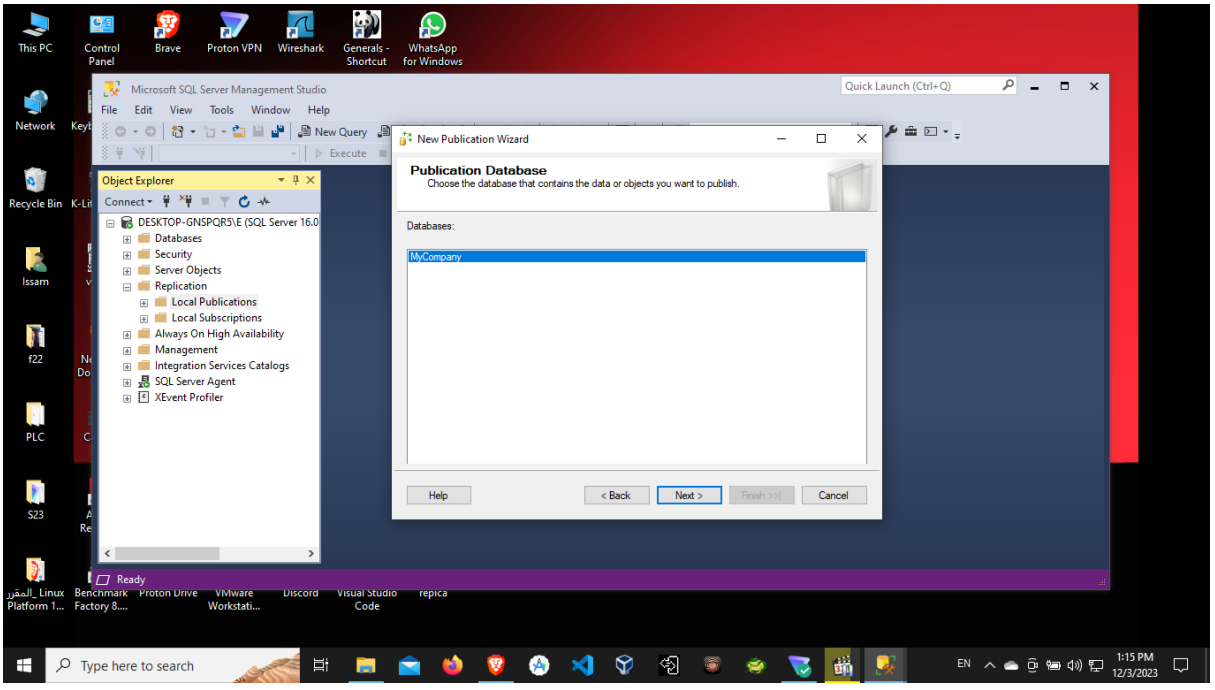

Microsoft SQL Server Management Studio
Object Explorer
Configure Distribution Wizard
Wizard Actions
Choose what happens when you click Finish.
At the end of the wizard:
Configure distribution
Generate a script file with steps to configure distribution
Help
< Back
Next >
Finish >>|
Cancel
Ready



NOTE :

I configured SQL Server Agent to start automatically from SQL server configuration manager immediately after I finished this step so there's no problem

setting new publication :



Choosing the replication type :

NOTE:

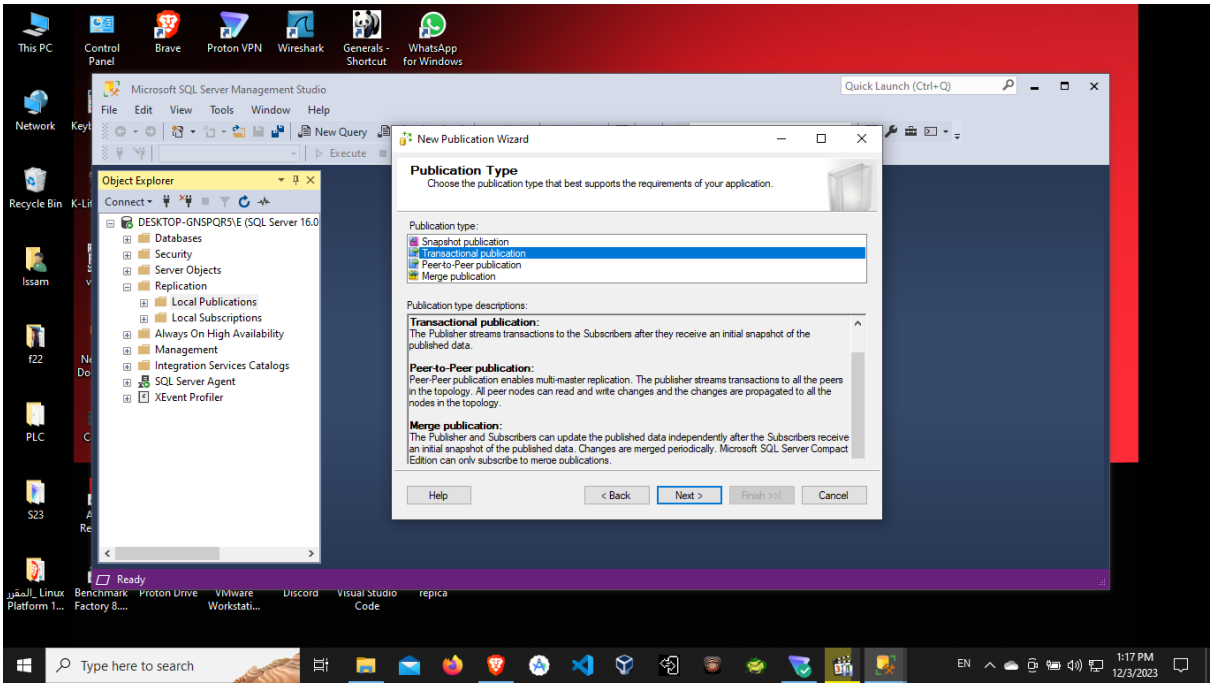
it's important to consider the specific requirements and constraints of our retail sales system. Factors such as network bandwidth, system performance, and the need for bidirectional synchronization may influence the choice of replication type.

In our case the replication type recommended to choose is **Transactional Replication**. Where real-time data availability and synchronization are crucial

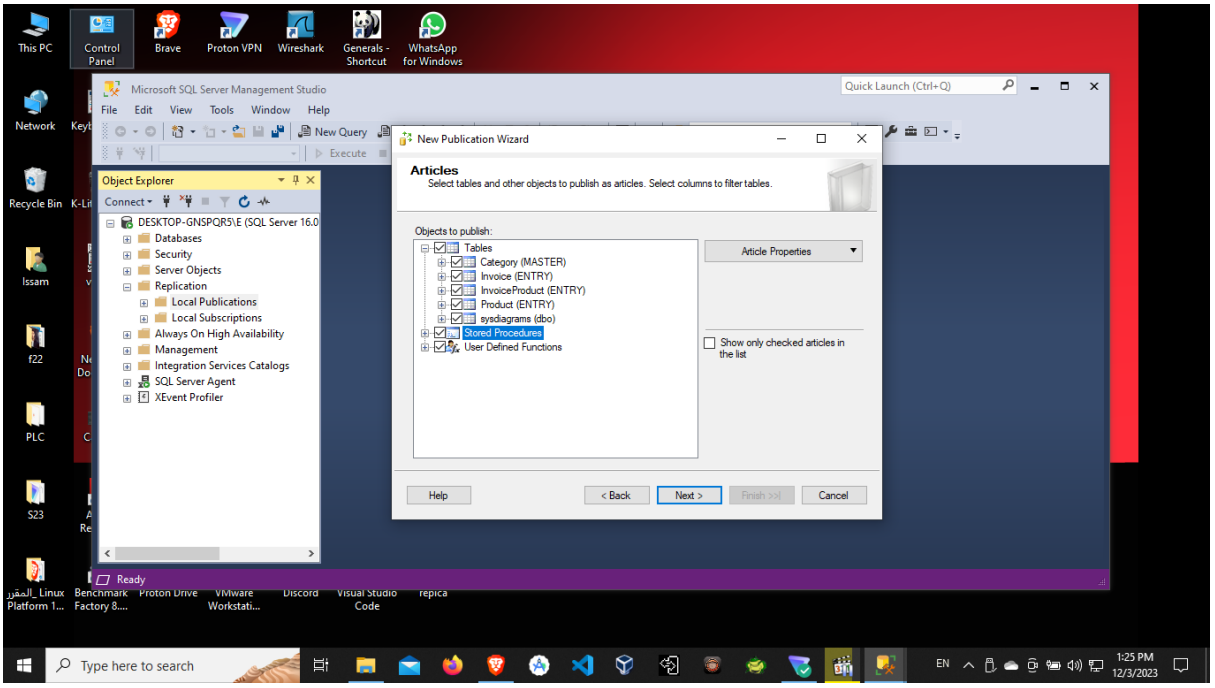
Here's why:

1. **Real-time data synchronization**: Transactional replication provides near real-time synchronization of individual transactions or batches of transactions. This ensures that changes made in the publisher database, such as sales transactions, inventory updates, or price changes, are quickly propagated to the subscriber databases. Real-time data availability is vital for accurate inventory management, order processing, and reporting in a retail sales system.
2. **Selective replication**: Transactional replication allows you to choose specific database objects or tables to replicate, enabling us to focus on the most critical data for our retail sales system. I can replicate transactional data related to sales, inventory, and customer information while excluding non-essential or sensitive data.
3. **Scalability**: Transactional replication is well-suited for scenarios where the data changes frequently. In a retail sales system, transactions occur frequently, such as new sales, returns, or inventory updates. Transactional replication efficiently handles high transaction rates and scales well as the system grows.
4. **Minimal latency**: Transactional replication minimizes the latency between changes made in the publisher database and their replication to the subscriber databases. This ensures that the distributed databases are kept up to date, providing accurate and timely information to the retail sales system users.

process steps :

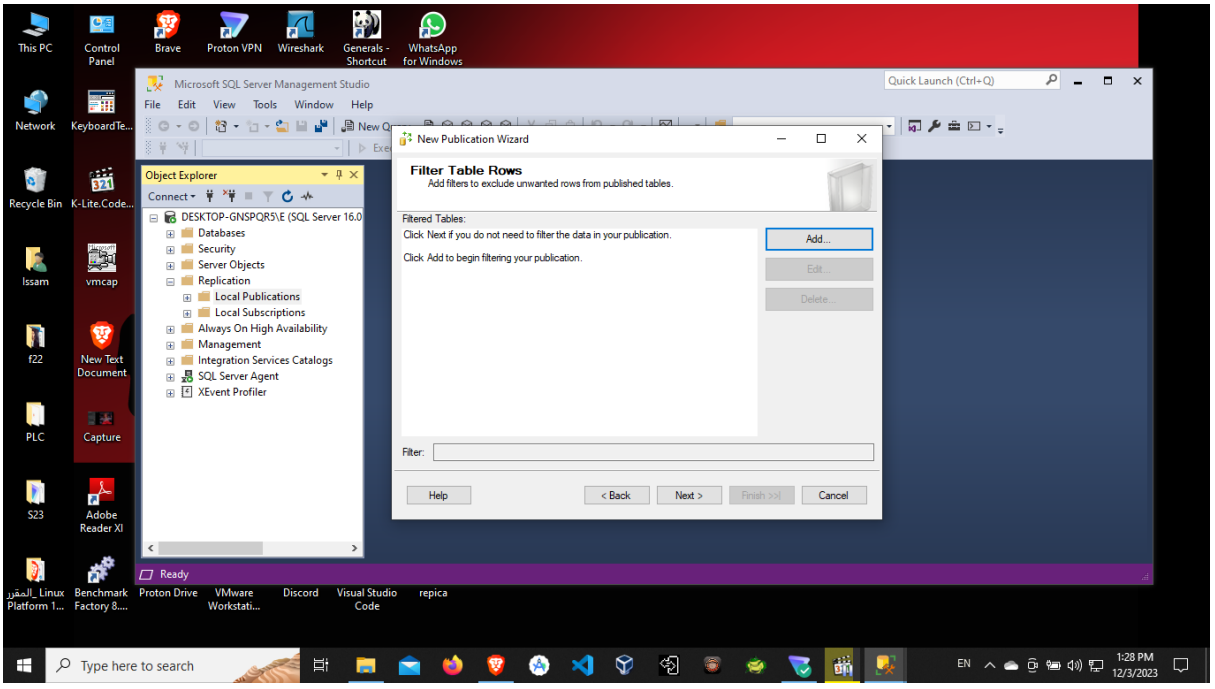


A publication represents a set of articles (tables, views, stored procedures) that will be replicated.



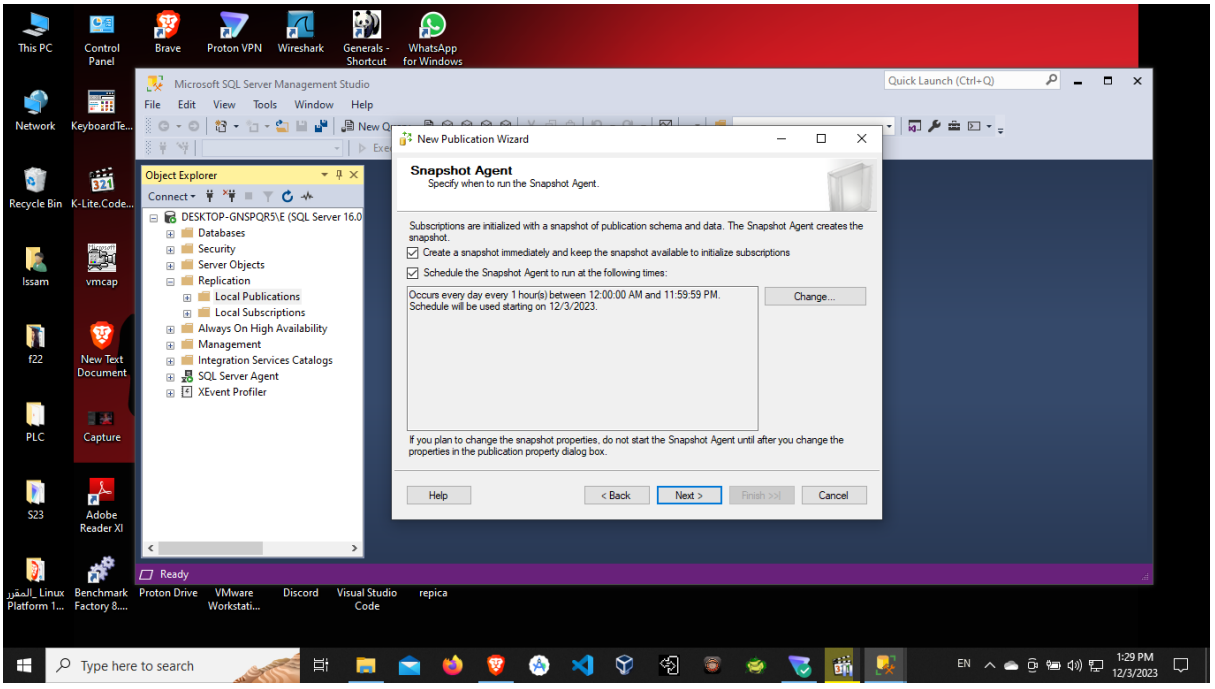
Filtering tables in a replication flow involves selecting a subset of data from a table to be replicated to the subscriber databases. This allows us to replicate only the

relevant data rather than replicating the entire table. But I’m not going to use it here cause it’s not needed ..So Next ⇒



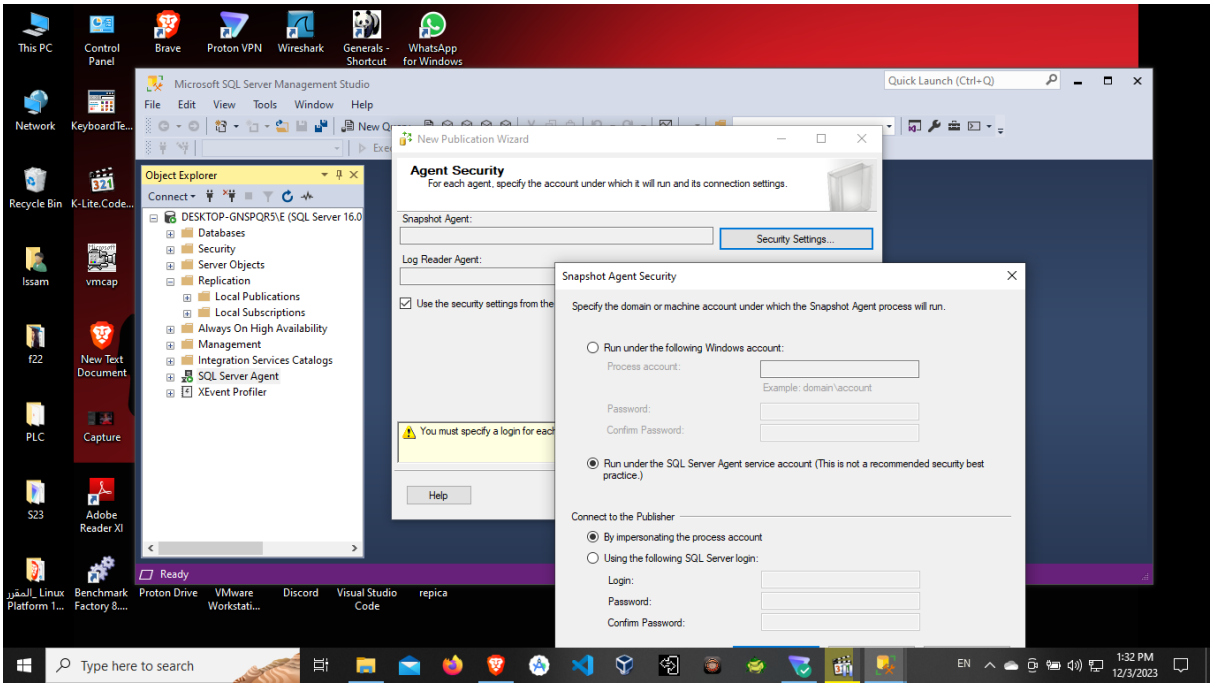
specifying when to run snapshot agent

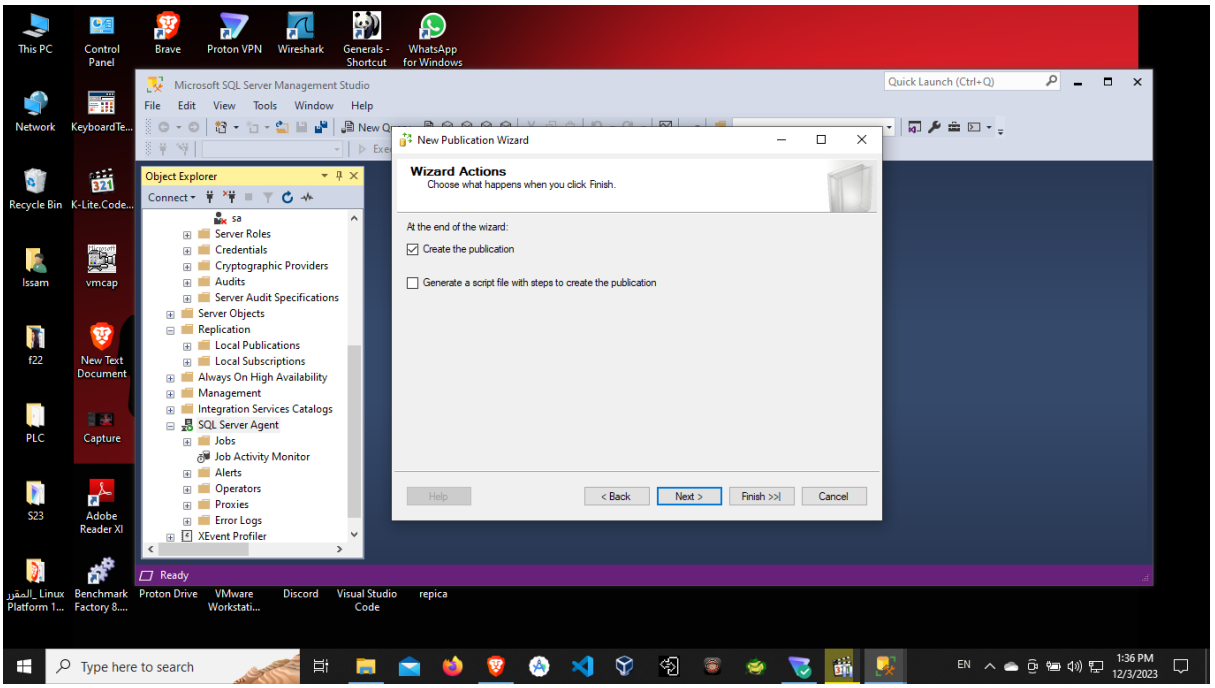
- Run immediately after the wizard finishes: I Selected this option because I want the Snapshot Agent job to be executed immediately after completing the publication setup in the wizard.
- Schedule the Snapshot Agent to run at the following times: I Selected this option to define a specific schedule for the Snapshot Agent job. I can Click the "Change" button to configure the schedule. I can specify the frequency (daily, weekly, monthly), the time of day, and the specific days on which the job should run.



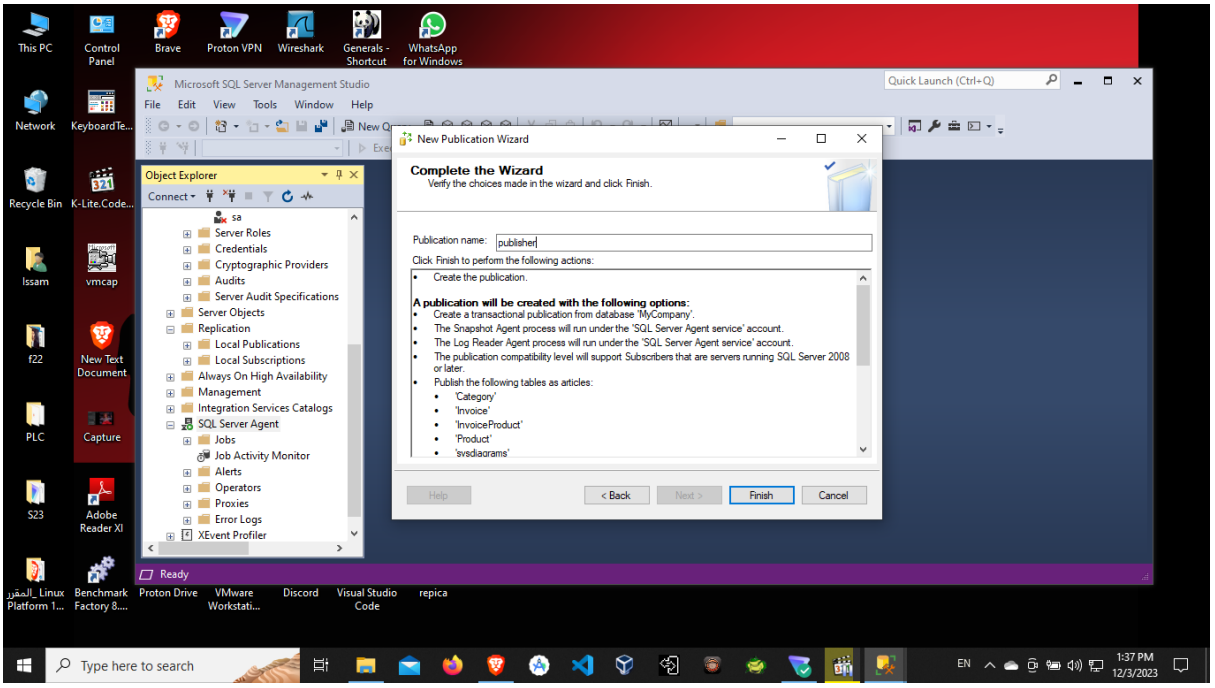
• Run under the following Windows account: I would select this option if I want to use a Windows account as the security context for the Snapshot Agent job. I can specify the Windows account and its password.

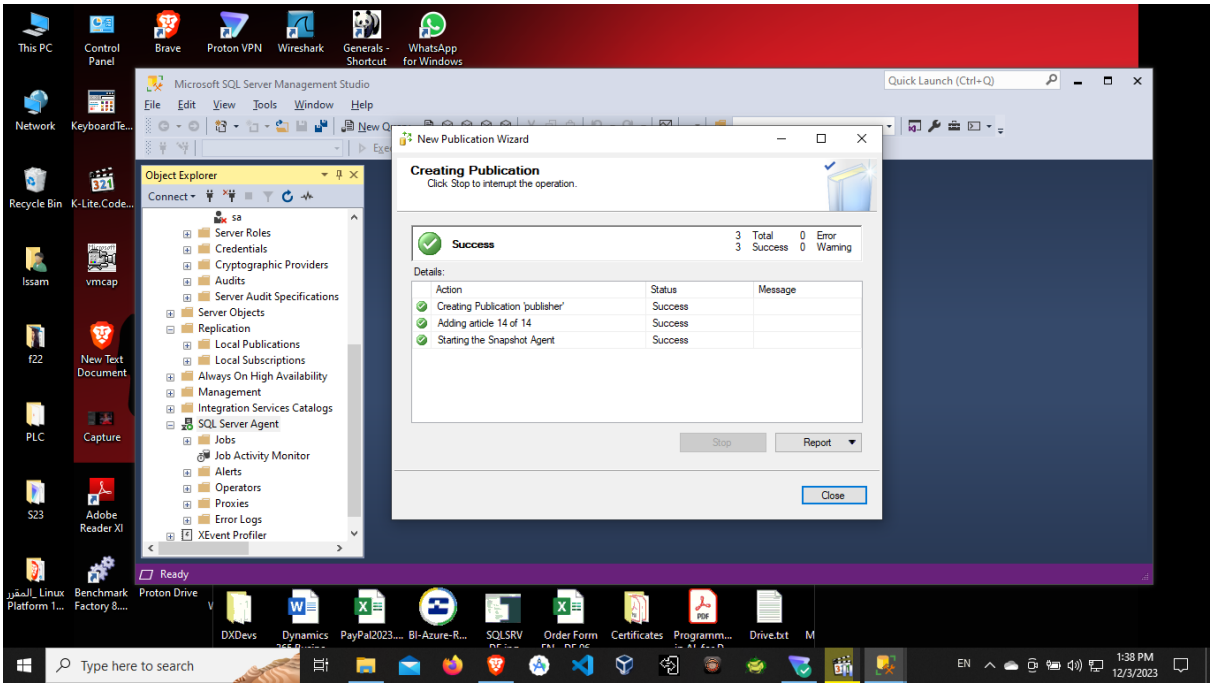
• Run under the SQL Server Agent service account: I Selected this option because I want to use the SQL Server Agent service account as the security context for the Snapshot Agent job. This option uses the credentials of the SQL Server Agent service account to run the job.



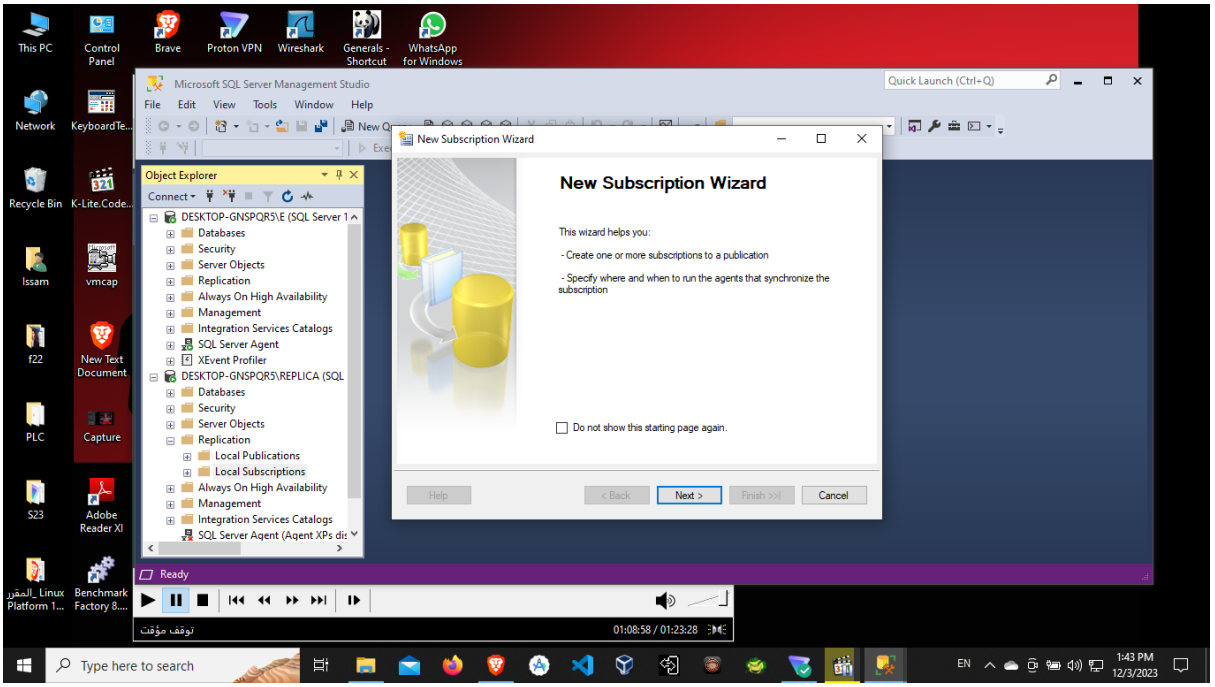


Naming the publication

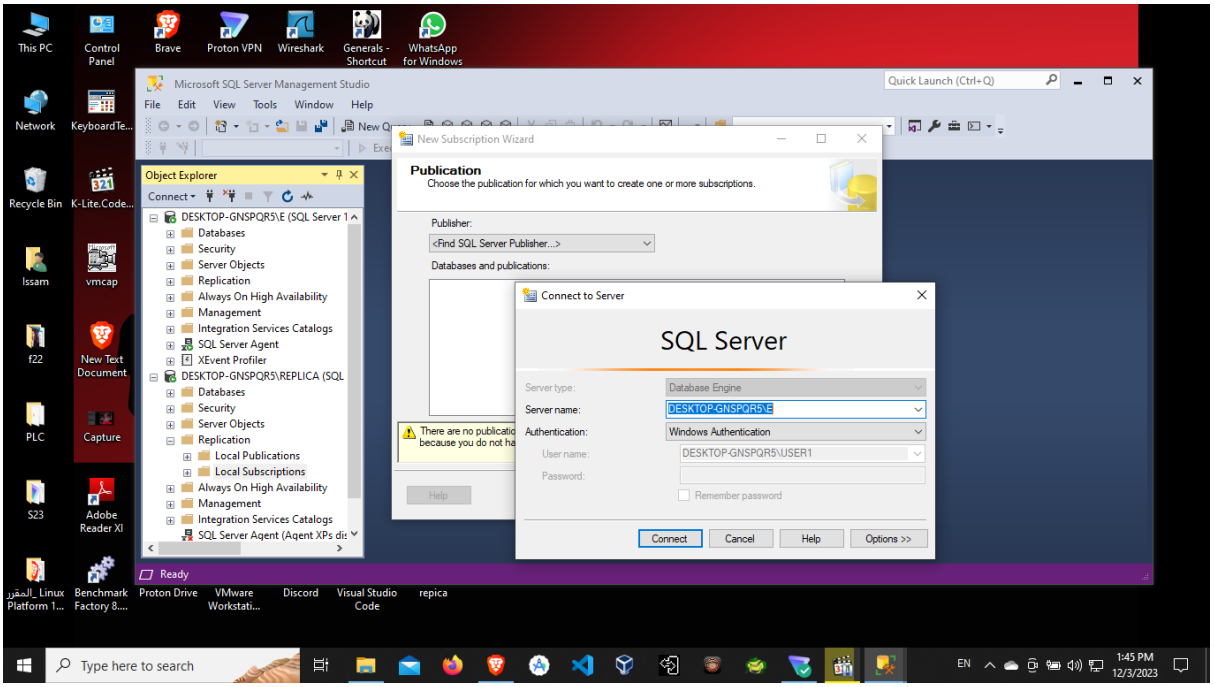




creating a subscriber for the new instance :



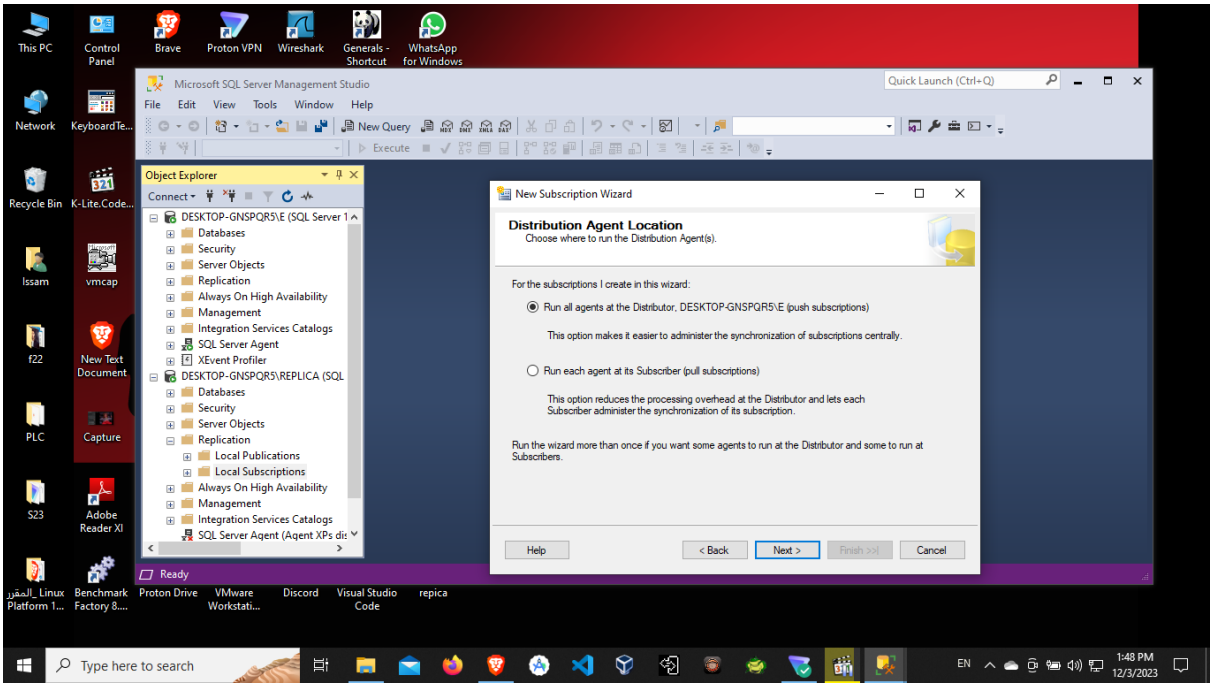
specifying the publication to the new subscriber



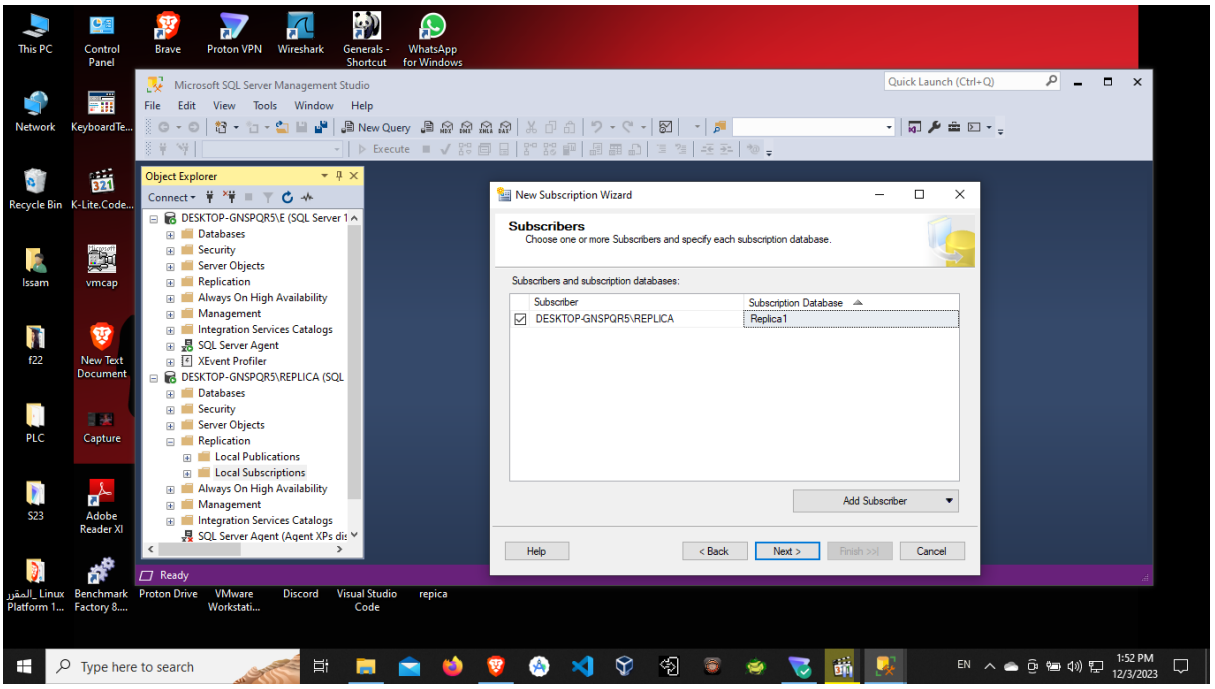
Selecting the Subscription Type:

- Push: With push subscriptions, the distribution agent pushes the changes from the Publisher to the Subscriber.
- Pull: With pull subscriptions, the subscriber connects to the distributor and pulls the changes at its own schedule.

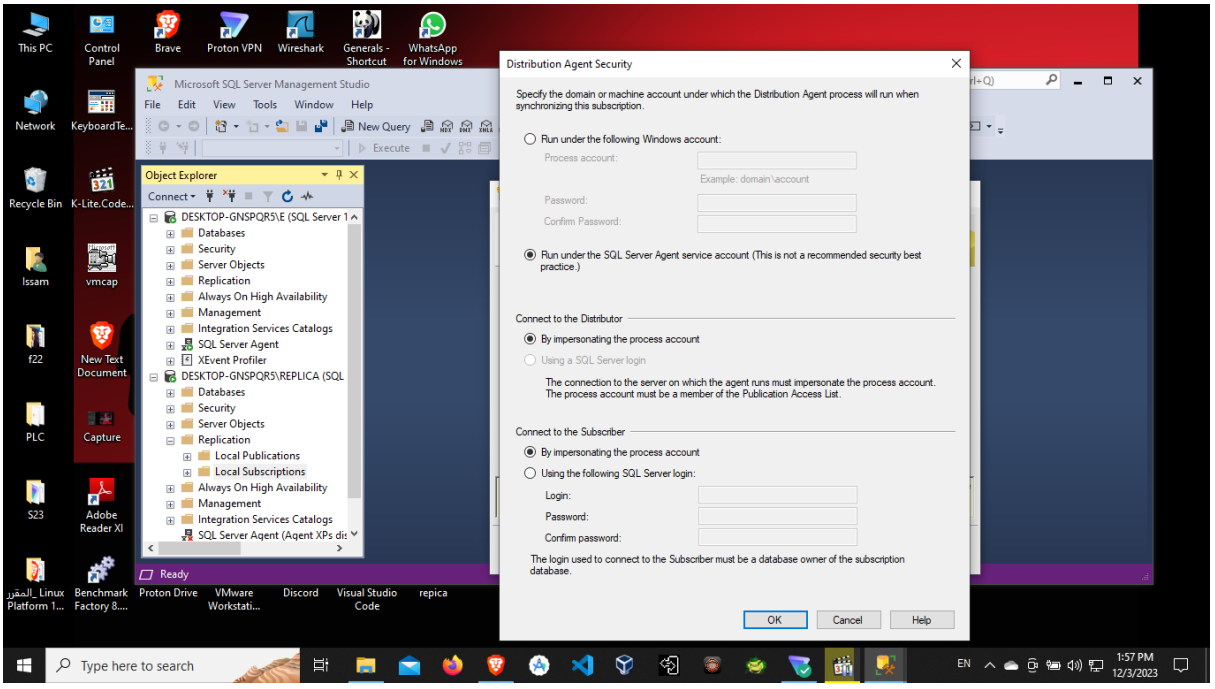
I selected Push



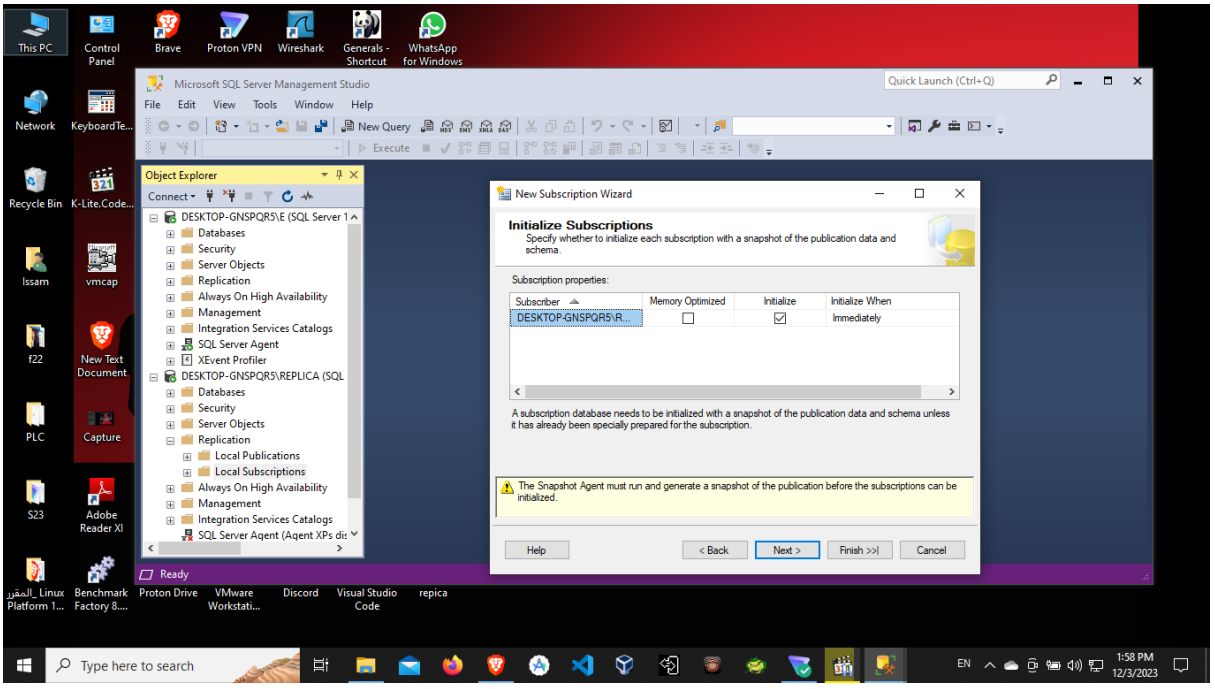
choosing the subscriber database to which I want to replicate data. I can select an existing database or create a new one . Here I created a new one and named it REPLICA1

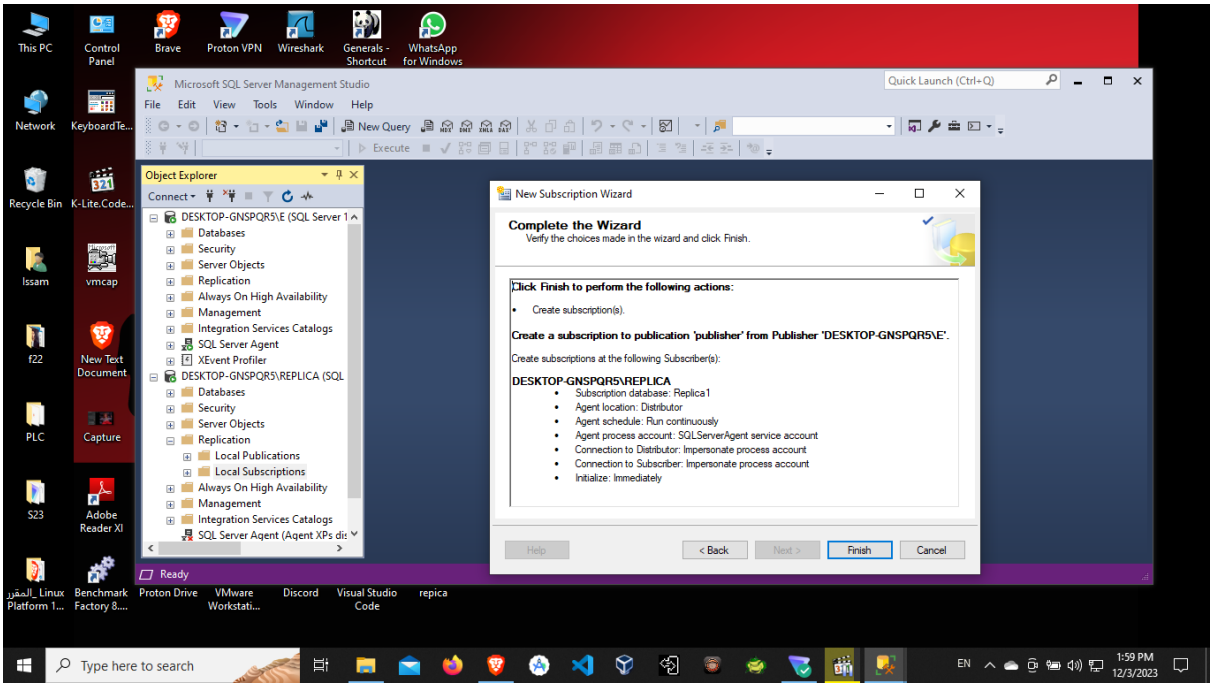


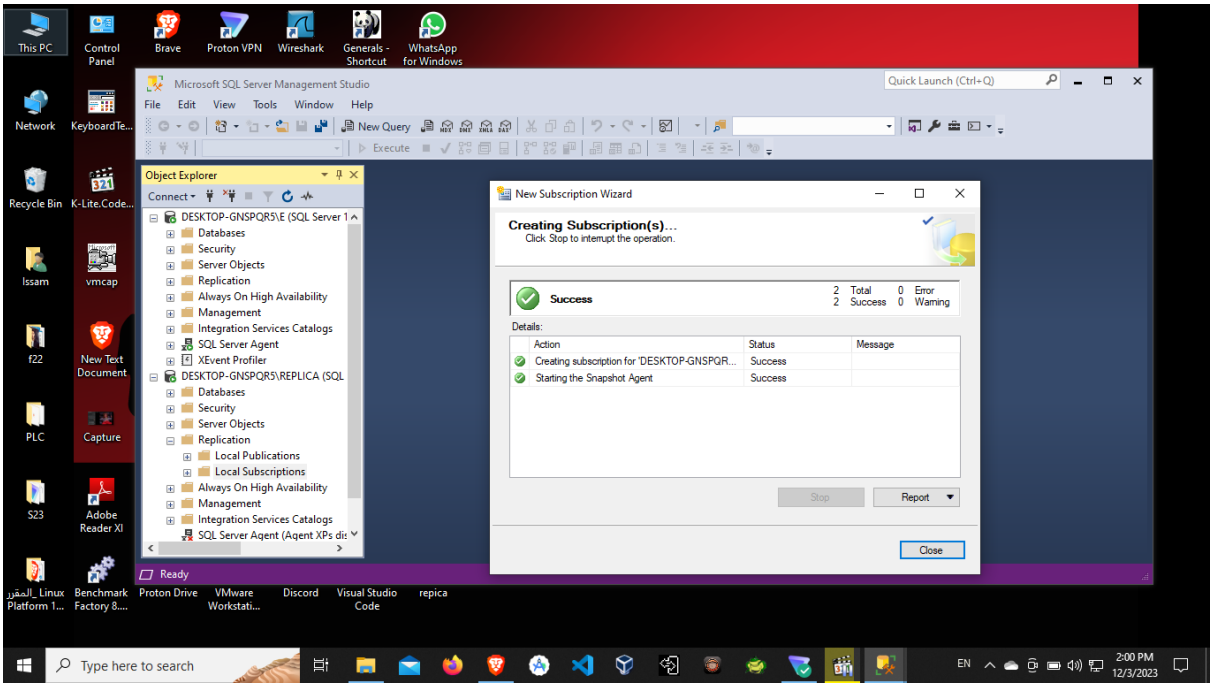
1. Configure the Distribution Agent Security Settings:
    - Run under the following Windows account: I would Select this option if I want to use a Windows account as the security context for the Distribution Agent job. Provide the necessary credentials.
    - Run under the SQL Server Agent service account: I Choose this option because I want to use the SQL Server Agent service account as the security context for the Distribution Agent job.



1. Initialize Subscription:
    - Initialize immediately: I Choose this option because I want to generate and apply the initial snapshot immediately after creating the subscription.
    - Initialize using a backup: I would Select this option if I have a backup of the publication database snapshot that I want to use to initialize the subscription.





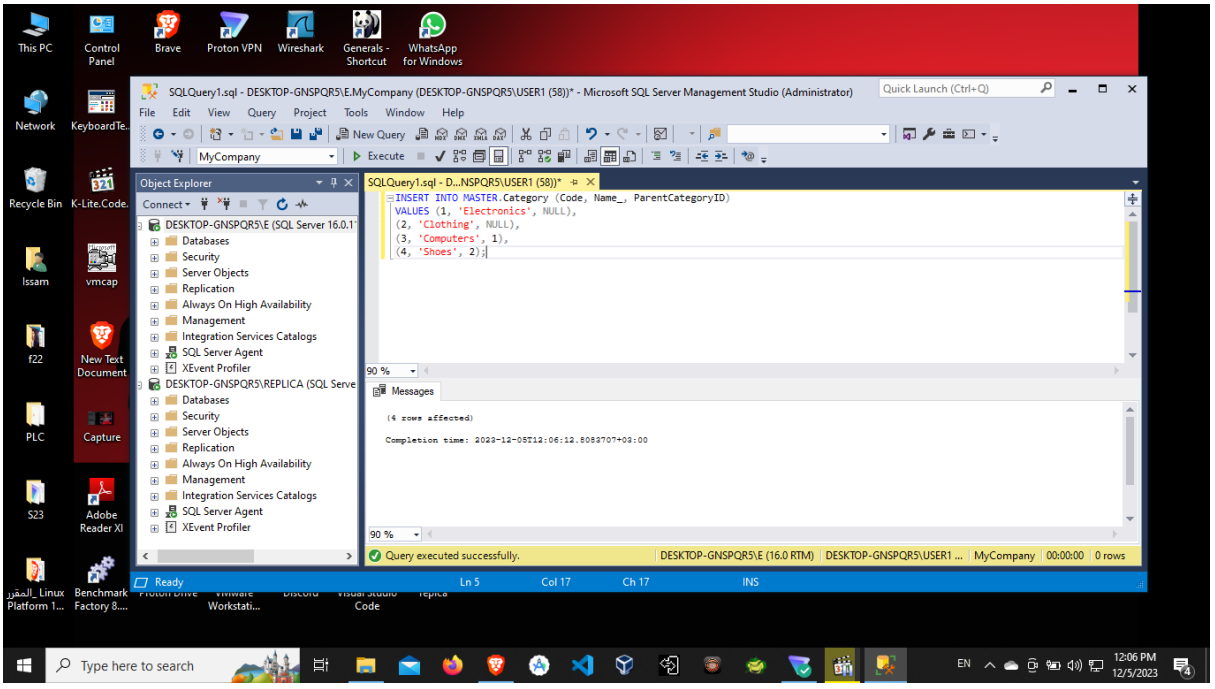


2-2.Implement the replication

first I'm going to insert some data into the tables of the Mycompany database

1. Insert data into the `MASTER.Category` table:

```
INSERT INTO MASTER.Category
(Code, Name_, ParentCategoryID)
VALUES (1, 'Electronics', NULL),
(2, 'Clothing', NULL),
(3, 'Computers', 1),
(4, 'Shoes', 2);
```



1. Insert data into the `ENTRY.Invoice` table:

```
INSERT INTO ENTRY.Invoice
(Number, Date_, Total)
VALUES (1, '2023-12-01', 100.50),
       (2, '2023-12-02', 75.25);
```

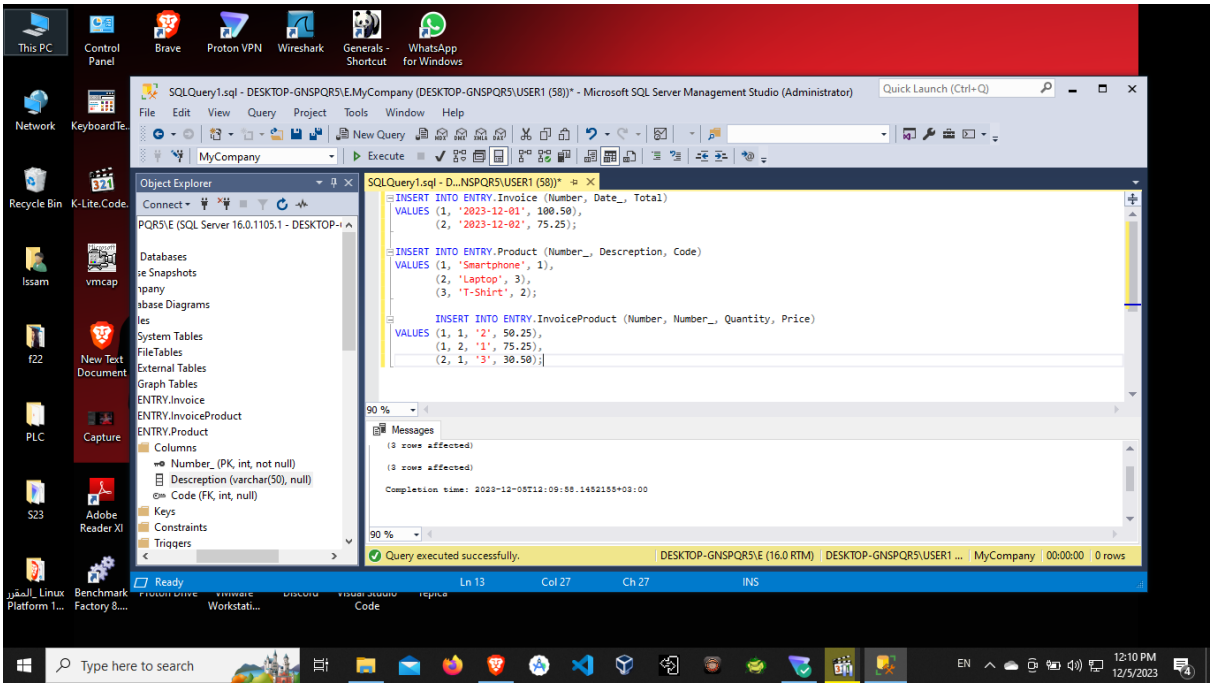
1. Insert data into the `ENTRY.Product` table:

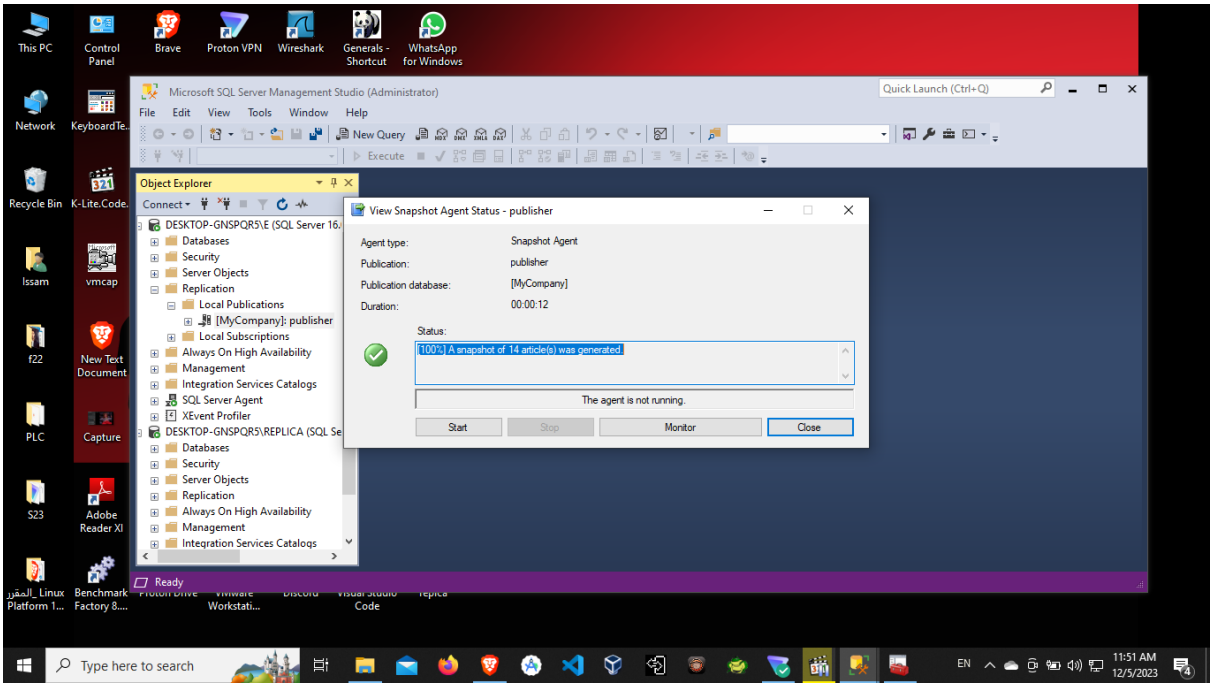
```
INSERT INTO ENTRY.Product
(Number_, Description, Code)
VALUES (1, 'Smartphone', 1),
```

```
        (2, 'Laptop', 3),
        (3, 'T-Shirt', 2);
```

1. Insert data into the `ENTRY.InvoiceProduct` table:

```
INSERT INTO ENTRY.InvoiceProduct
(Number, Number_, Quantity, Price)
VALUES (1, 1, '2', 50.25),
       (1, 2, '1', 75.25),
       (2, 1, '3', 30.50);
```





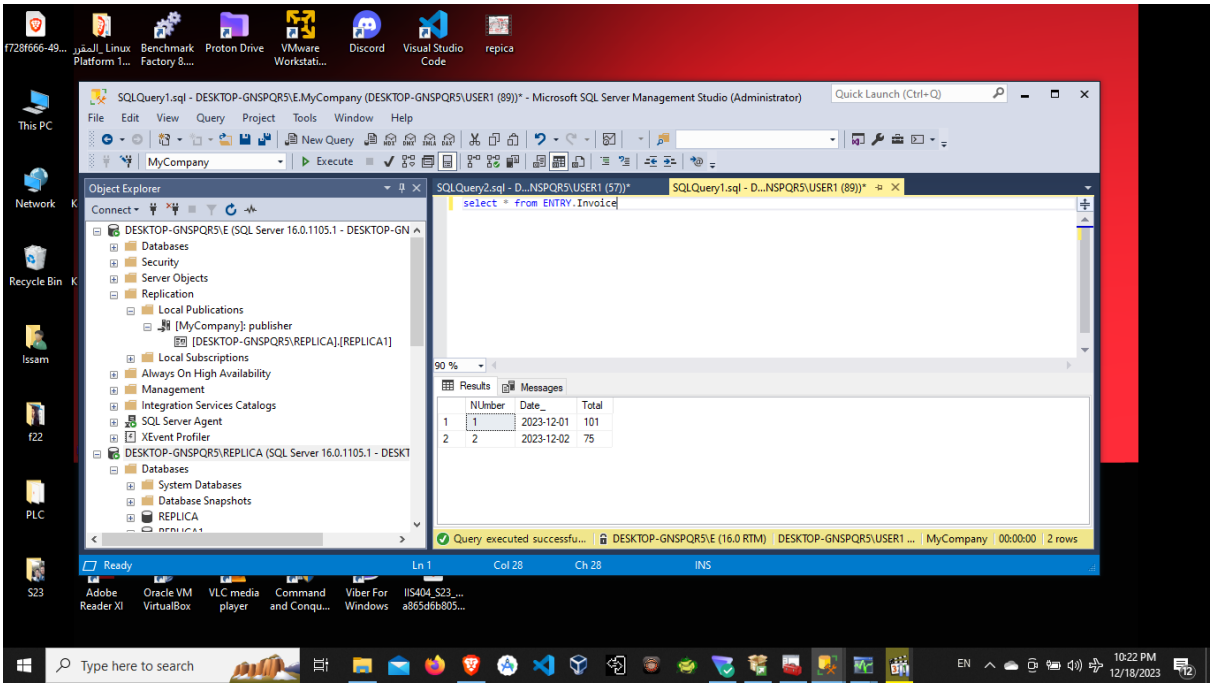
Initialize the subscription :

For transactional the initial snapshot is typically generated automatically during the first synchronization.

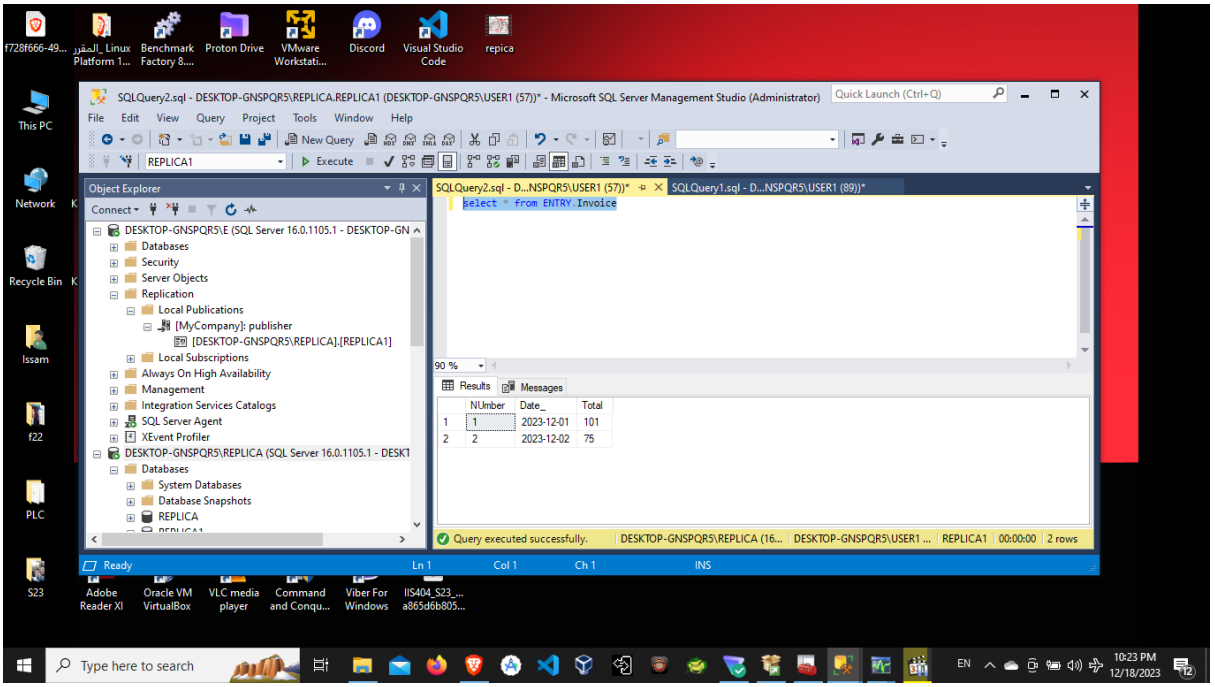
2.3.Test the replication showing and proving that it works (data transferred, replication monitor, log):

1-data transfer :

on publisher

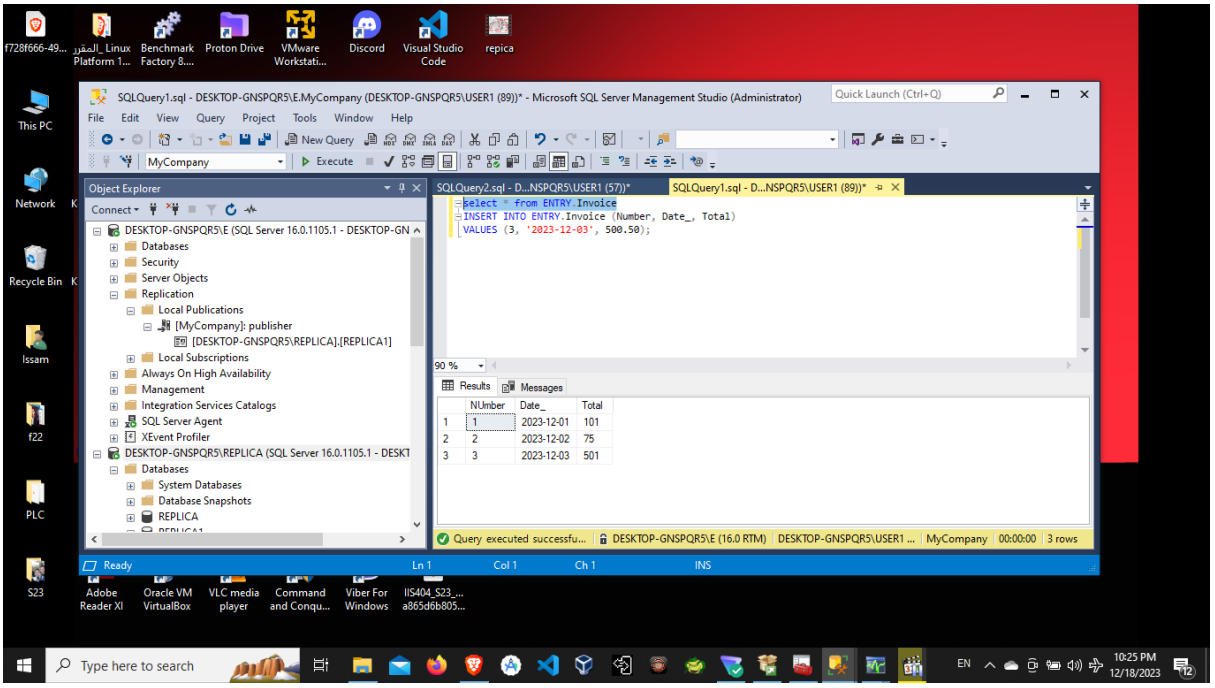


on subscriber



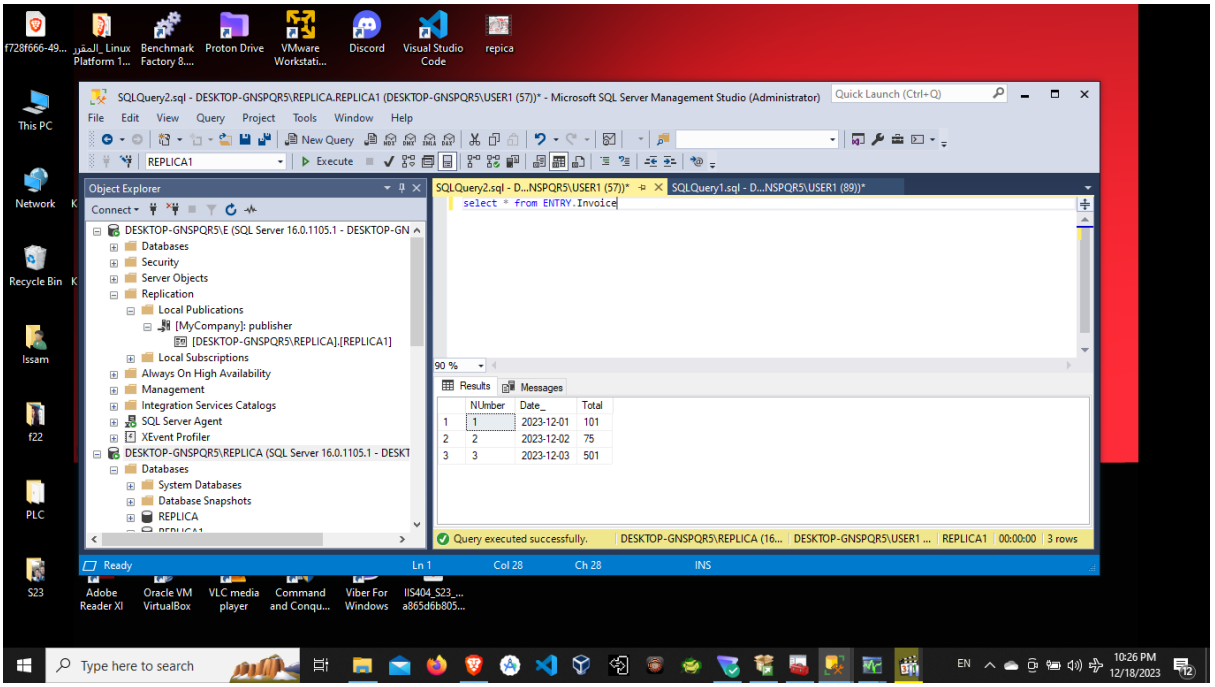
1. On publisher Insert data into the `ENTRY.Product` table:

```
INSERT INTO ENTRY.Invoice
(Number, Date_, Total)
VALUES (3, '2023-12-03', 500.50);
```

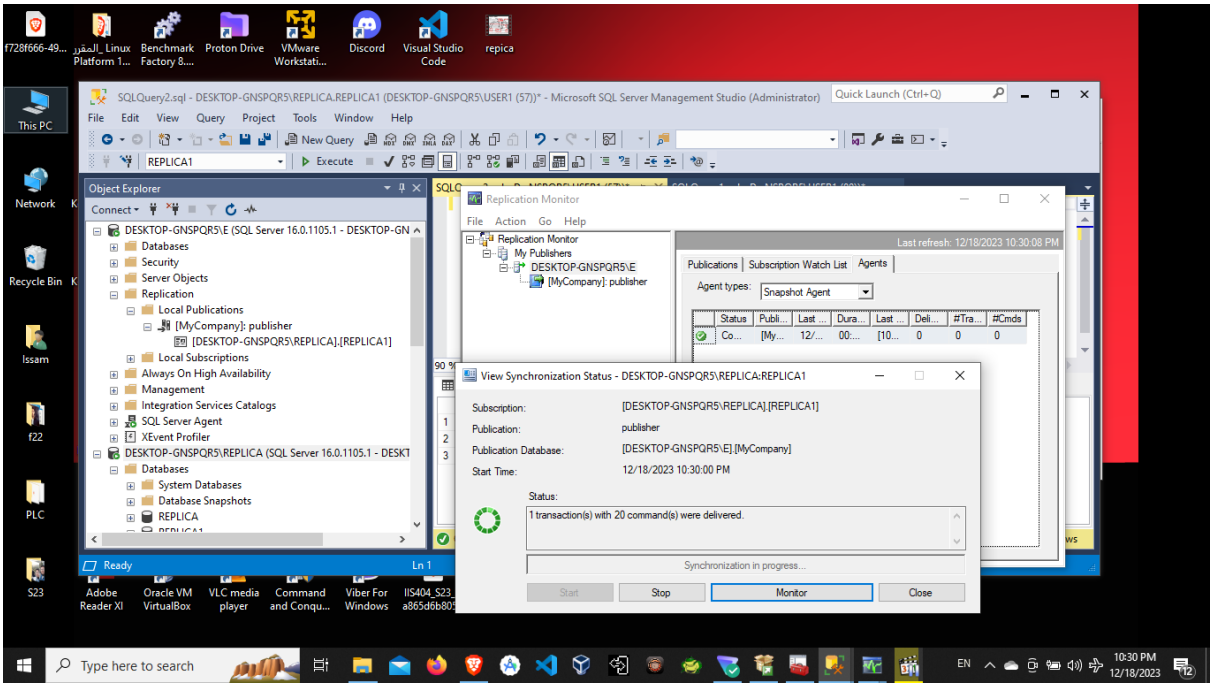


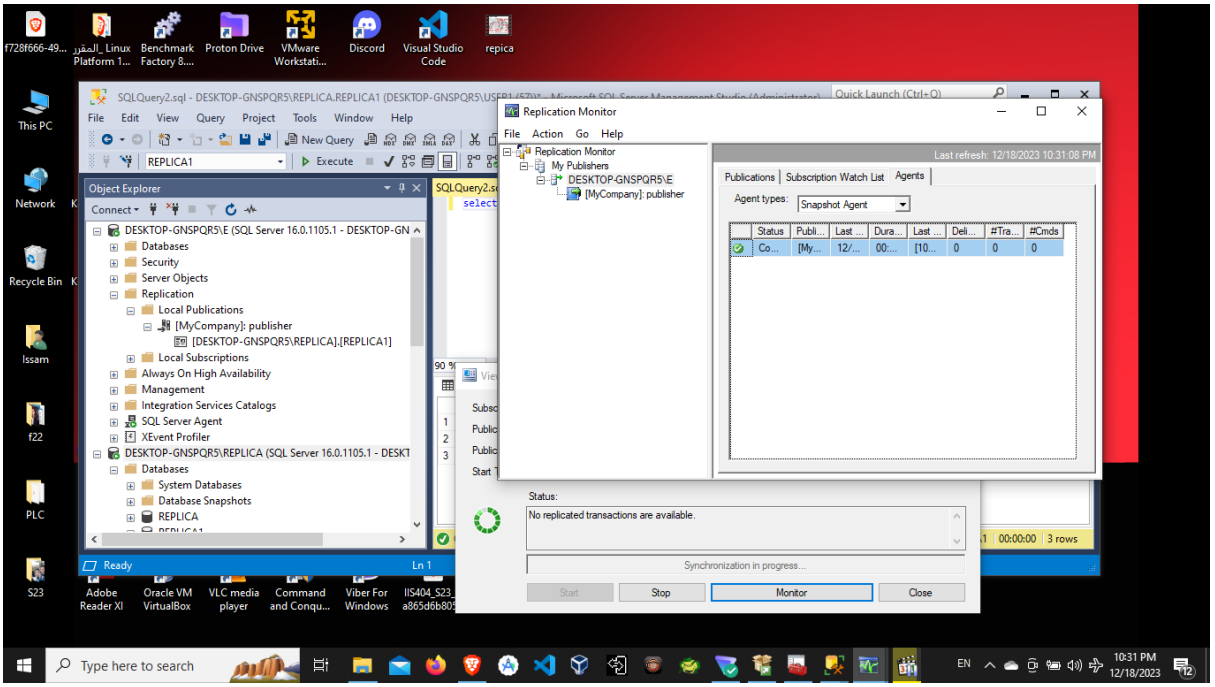
2.On subscriber :

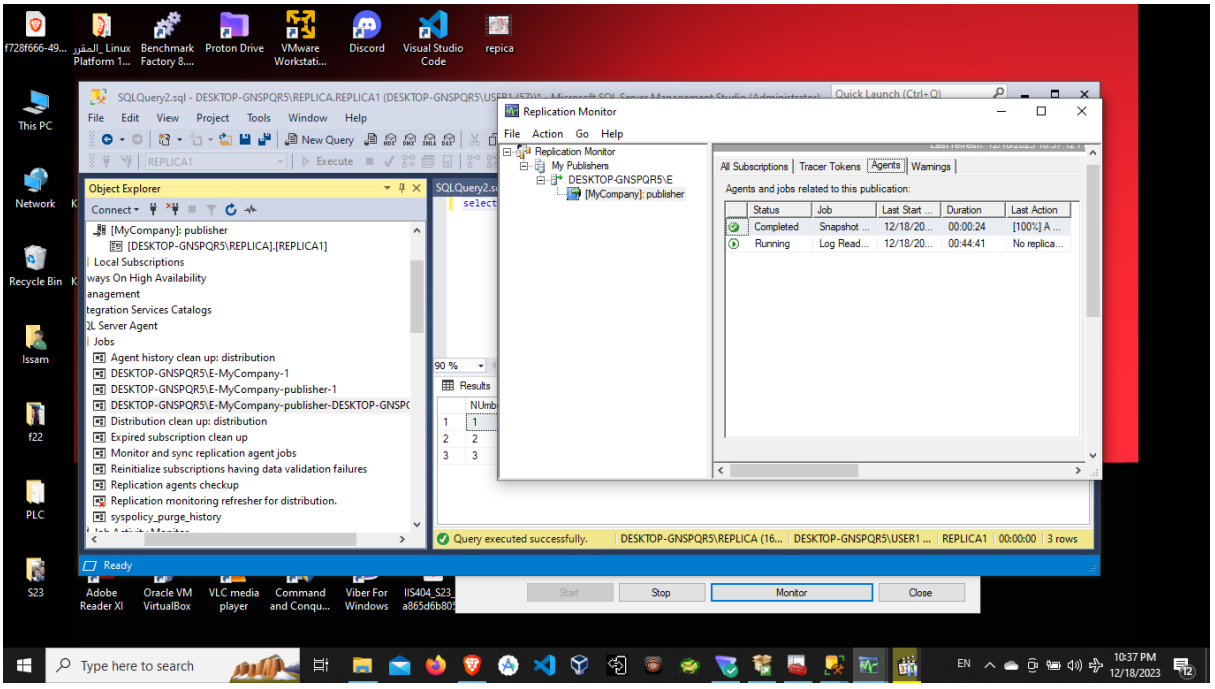
```
SELECT * FROM ENTRY.Invoice
```



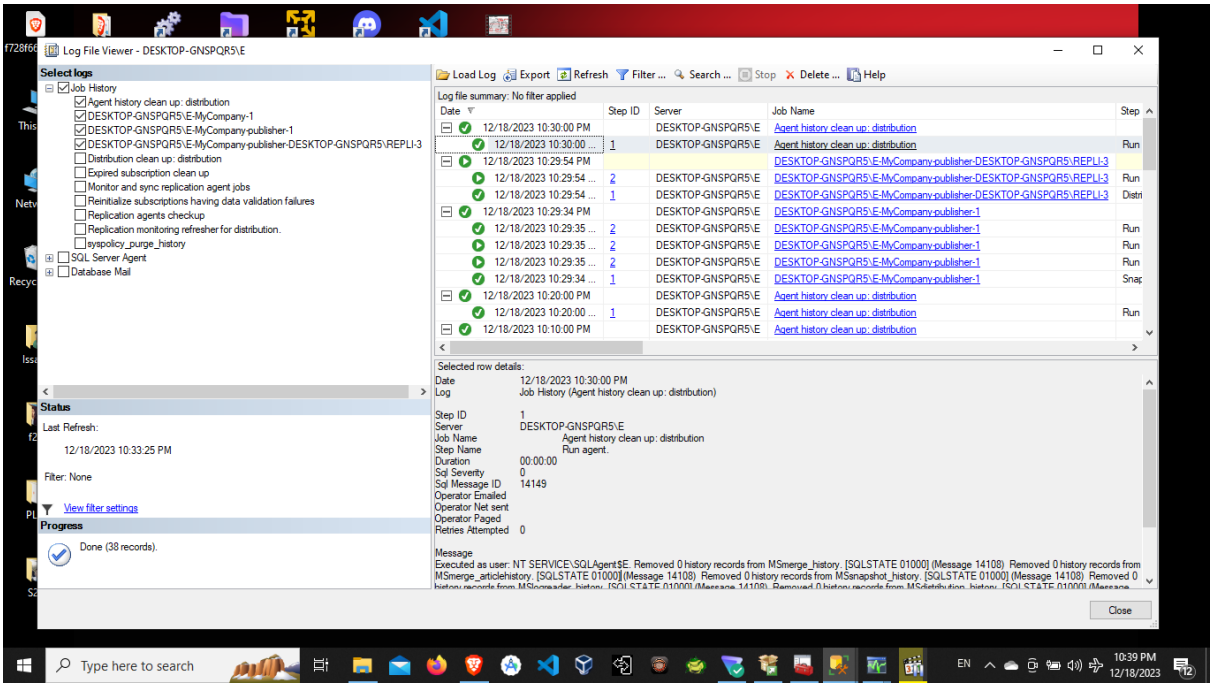
2-replication monitor

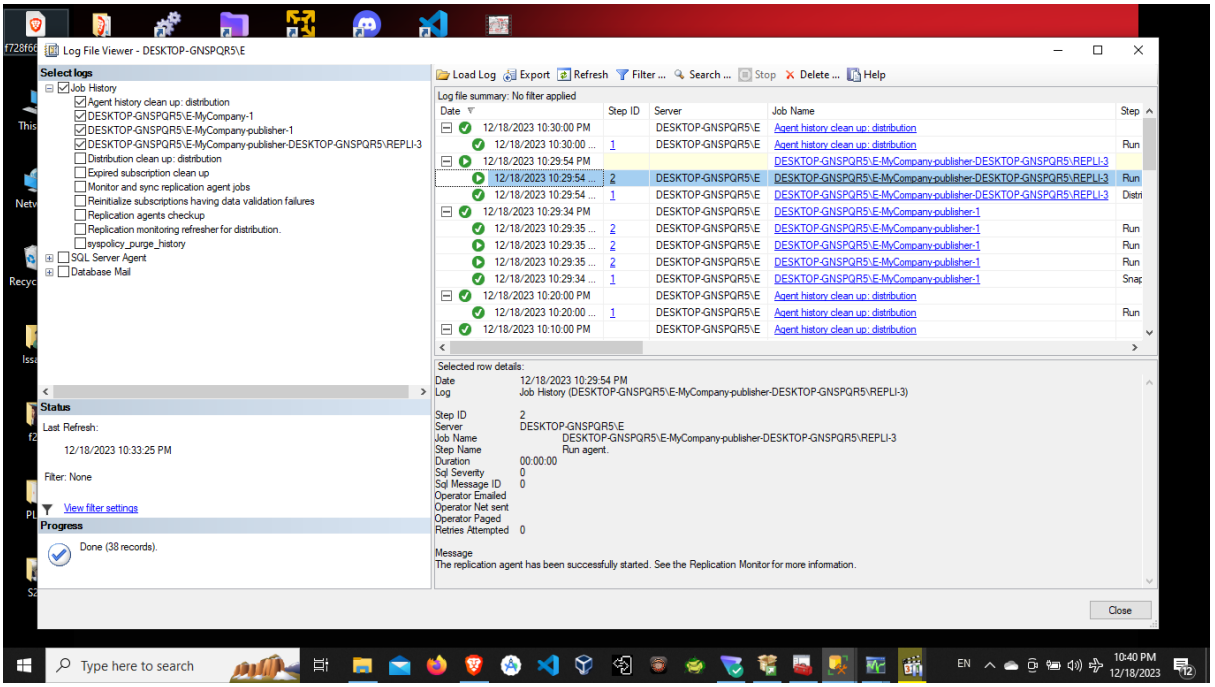


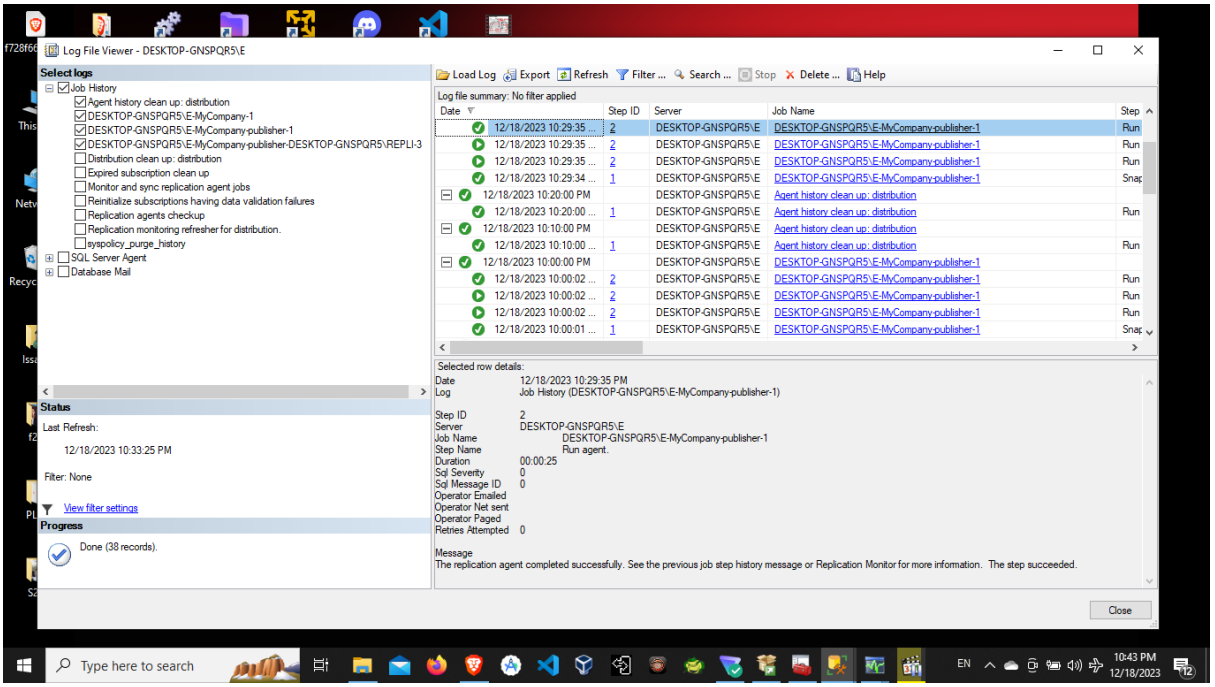

Replication Monitor
File Action Go Help
Replication Monitor
My Publishers
DESKTOP-GNSPQR5\E
[MyCompany]: publisher
Publications | Subscription Watch List | Agents
Agent types: Snapshot Agent
Status: No replicated transactions are available.
Synchronization in progress...
Start Stop Monitor Close


Replication Monitor
File Action Go Help
Replication Monitor
My Publishers
DESKTOP-GNSPQR5\E
[MyCompany]: publisher
All Subscriptions | Tracer Tokens | Agents | Warnings
Agents and jobs related to this publication:
Status Job Last Start ... Duration Last Action
Completed Snapshot ... 12/18/20... 00:00:24 [100%] A ...
Running Log Read... 12/18/20... 00:44:41 No replica...
Start Stop Monitor Close

3-Log


Log File Viewer - DESKTOP-GNSPQR5\E
Select logs
Job History
Agent history clean up: distribution
DESKTOP-GNSPQR5\E-MyCompany-1
DESKTOP-GNSPQR5\E-MyCompany-publisher-1
DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3
Distribution clean up: distribution
Expired subscription clean up
Monitor and sync replication agent jobs
Reinitialize subscriptions having data validation failures
Replication agents checkup
Replication monitoring refresher for distribution.
syspolicy_purge_history
SQL Server Agent
Database Mail
Load Log
Export
Refresh
Filter ...
Search ...
Stop
Delete ...
Help
Log file summary: No filter applied
Date
Step ID
Server
Job Name
Step
12/18/2023 10:30:00 PM DESKTOP-GNSPQR5\E Agent history clean up: distribution
12/18/2023 10:30:00 ... 1 DESKTOP-GNSPQR5\E Agent history clean up: distribution Run
12/18/2023 10:29:54 PM DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3
12/18/2023 10:29:54 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3 Run
12/18/2023 10:29:54 ... 1 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3 Distri
12/18/2023 10:29:34 PM DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1
12/18/2023 10:29:35 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Run
12/18/2023 10:29:35 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Run
12/18/2023 10:29:35 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Run
12/18/2023 10:29:34 ... 1 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Snap
12/18/2023 10:20:00 PM DESKTOP-GNSPQR5\E Agent history clean up: distribution
12/18/2023 10:20:00 ... 1 DESKTOP-GNSPQR5\E Agent history clean up: distribution Run
12/18/2023 10:10:00 PM DESKTOP-GNSPQR5\E Agent history clean up: distribution
Selected row details:
Date 12/18/2023 10:30:00 PM
Log Job History (Agent history clean up: distribution)
Step ID 1
Server DESKTOP-GNSPQR5\E
Job Name Agent history clean up: distribution
Step Name Run agent.
Duration 00:00:00
Sql Severity 0
Sql Message ID 14149
Operator Emailed
Operator Net sent
Operator Paged
Retries Attempted 0
Message
Executed as user: NT SERVICE\SQLAgent$E. Removed 0 history records from MSmerge_history. [SQLSTATE 01000] (Message 14108) Removed 0 history records from MSmerge_articlehistory. [SQLSTATE 01000] (Message 14108) Removed 0 history records from MSsnapshot_history. [SQLSTATE 01000] (Message 14108) Removed 0
Status
Last Refresh:
12/18/2023 10:33:25 PM
Filter: None
View filter settings
Progress
Done (38 records).
Close
Type here to search
EN
10:39 PM
12/18/2023


Log File Viewer - DESKTOP-GNSPQR5\E
Select logs
Job History
Agent history clean up: distribution
DESKTOP-GNSPQR5\E-MyCompany-1
DESKTOP-GNSPQR5\E-MyCompany-publisher-1
DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3
Distribution clean up: distribution
Expired subscription clean up
Monitor and sync replication agent jobs
Reinitialize subscriptions having data validation failures
Replication agents checkup
Replication monitoring refresher for distribution.
syspolicy_purge_history
SQL Server Agent
Database Mail
Load Log
Export
Refresh
Filter ...
Search ...
Stop
Delete ...
Help
Log file summary: No filter applied
Date
Step ID
Server
Job Name
Step
12/18/2023 10:30:00 PM DESKTOP-GNSPQR5\E Agent history clean up: distribution
12/18/2023 10:30:00 ... 1 DESKTOP-GNSPQR5\E Agent history clean up: distribution Run
12/18/2023 10:29:54 PM DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3
12/18/2023 10:29:54 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3 Run
12/18/2023 10:29:54 ... 1 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3 Distri
12/18/2023 10:29:34 PM DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1
12/18/2023 10:29:35 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Run
12/18/2023 10:29:35 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Run
12/18/2023 10:29:35 ... 2 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Run
12/18/2023 10:29:34 ... 1 DESKTOP-GNSPQR5\E DESKTOP-GNSPQR5\E-MyCompany-publisher-1 Snap
12/18/2023 10:20:00 PM DESKTOP-GNSPQR5\E Agent history clean up: distribution
12/18/2023 10:20:00 ... 1 DESKTOP-GNSPQR5\E Agent history clean up: distribution Run
12/18/2023 10:10:00 PM DESKTOP-GNSPQR5\E Agent history clean up: distribution
Selected row details:
Date 12/18/2023 10:29:54 PM
Log Job History (DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3)
Step ID 2
Server DESKTOP-GNSPQR5\E
Job Name DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3
Step Name Run agent.
Duration 00:00:00
Sql Severity 0
Sql Message ID 0
Operator Emailed
Operator Net sent
Operator Paged
Retries Attempted 0
Message
The replication agent has been successfully started. See the Replication Monitor for more information.
Status
Last Refresh:
12/18/2023 10:33:25 PM
Filter: None
View filter settings
Progress
Done (38 records).
Close
Type here to search
EN
10:40 PM
12/18/2023


Log File Viewer - DESKTOP-GNSPQR5\E
Select logs
Job History
Agent history clean up: distribution
DESKTOP-GNSPQR5\E-MyCompany-1
DESKTOP-GNSPQR5\E-MyCompany-publisher-1
DESKTOP-GNSPQR5\E-MyCompany-publisher-DESKTOP-GNSPQR5\REPLI-3
Distribution clean up: distribution
Expired subscription clean up
Monitor and sync replication agent jobs
Reinitialize subscriptions having data validation failures
Replication agents checkup
Replication monitoring refresher for distribution.
syspolicy_purge_history
SQL Server Agent
Database Mail
Status
Last Refresh:
12/18/2023 10:33:25 PM
Filter: None
View filter settings
Progress
Done (38 records).
Load Log
Export
Refresh
Filter ...
Search ...
Stop
Delete ...
Help
Log file summary: No filter applied
Date
Step ID
Server
Job Name
Step
Selected row details:
Date 12/18/2023 10:29:35 PM
Log Job History (DESKTOP-GNSPQR5\E-MyCompany-publisher-1)
Step ID 2
Server DESKTOP-GNSPQR5\E
Job Name DESKTOP-GNSPQR5\E-MyCompany-publisher-1
Step Name Run agent.
Duration 00:00:25
Sql Severity 0
Sql Message ID 0
Operator Emailed
Operator Net sent
Operator Paged
Retries Attempted 0
Message
The replication agent completed successfully. See the previous job step history message or Replication Monitor for more information. The step succeeded.
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