## Steps to a Add New Article to Publication\Subscription without running a Full Snapshot--UpSkill 2020.

Hope you have setup Transactional Replication in your SQL environment. Maybe you have a need to add a new table/article to your existing publication but can't afford the time it takes to create a full new snapshot.

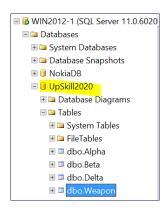
### Here is the Step-by-step process to do that.

Here we will use a Sample Database **UpSkill2020** for this practice session.

Recently, the tables: Alpha, Beta tables are replicated from Publisher to Subscriber.

Now we will add new tables: Weapon & Delta to be replicated from Publisher to Subscriber.

#### **Setup - Test DB Replication Environment**



First, Let's go and see what happens if we just go and add these new 2 tables to the existing publication articles.

Let's add the 1st table: Weapon.

Right click on the publication, go to articles and untick the option to only show included articles.

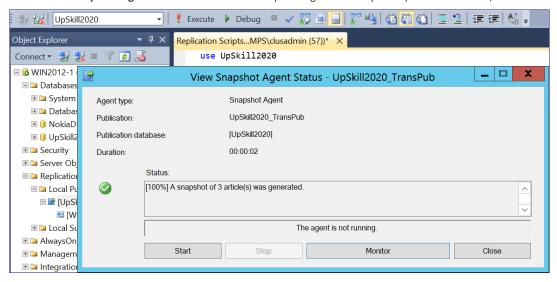
We are going to tick the **Weapon** table and then click OK. This is shown below.

#### **Full Snapshot Example**

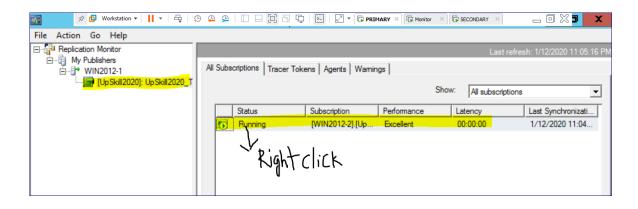


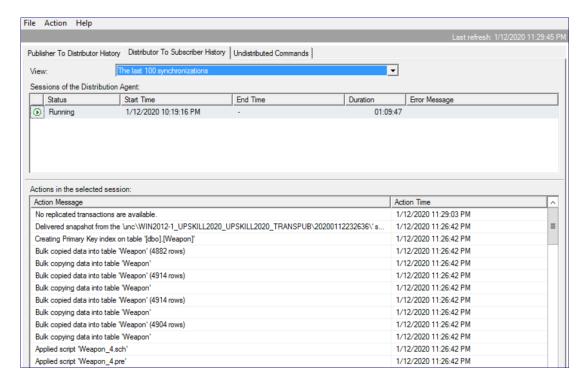
Now, right click on the Publication: "UpSkill2020\_TransPub".

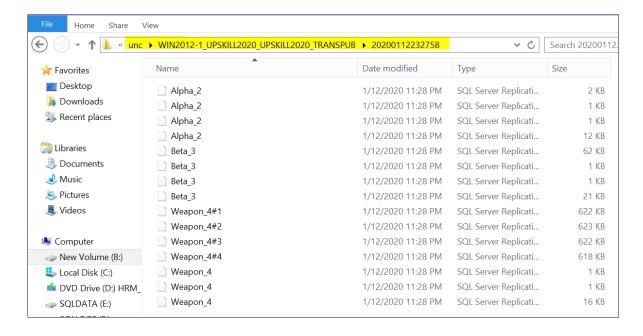
Go to "View Snapshot Agent Status" and start the snapshot agent. If we open Replication Monitor, we will see the following:



Goto Replication Monitor. Under "All Subscriptions" Right Click on Subscription and click on VIEW Details.







- Watch closely at the above screenshot.
- Here we observed that only the Weapon data has been applied to the subscription, which can be seen in Replication Monitor.
- However, in above given Snapshot Agent Monitor screenshot it clearly shows that a snapshot of 3 articles was generated.
- And if we look into our snapshot folder, we see that all 3 articles are there & these files are bcp files and contain the table data.
- Advantage: Even though all the 3 articles were part of the snapshot, only the Weapon table is pushed over to the subscriber.
- If we have a local snapshot folder, this isn't a bad solution. But if our snapshot folder is on a remote shared path\drive then we are potentially going to push a lot of data over the network to the subscriber which is a bad solution.

Let's go ahead and fix this so that the full snapshot is not at all necessary.

#### Step 1: Update the required Publication properties as follows on Publisher SQL Server.

All we have to do is to disable 2 publication properties: allow\_anonymous and immediate\_sync. Here's how:

```
Use Upskill2020 – Put here the publication database name here.

exec sp_changepublication
    @ publication=N'Upskill2020_Transpub' -- Mention your publication name here
    ,@ property=N'allow_anonymous'
    ,@ value='false';
go
exec sp_changepublication
    @ publication=N' Upskill2020_Transpub' -- Mention your publication name here
    ,@ property=N'immediate_sync'
    ,@ value='false';
go
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№ WIN2012-1 (SQL Server 11.0.6020
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                                             @publication=N'Upskill2020_Transpub'
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                                            @property=N'allow_anonymous
  ■ ■ Database Snapshots
                                           , @value='false';

    ■ NokiaDB

  🖃 🗍 UpSkill2020

    exec sp_changepublication

                                             @publication=N'Upskill2020_Transpub'
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      🖽 💷 dbo.Delta
      🖽 💷 dbo.Gamma
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■ Programmability

    ■ Security

    Server Objects

    ■ Replication

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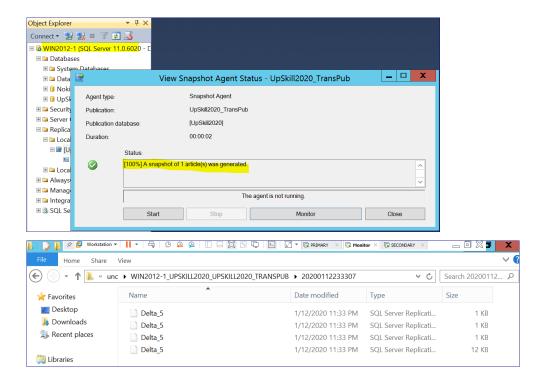
Step 2: Add your required new articles on existing Publication.

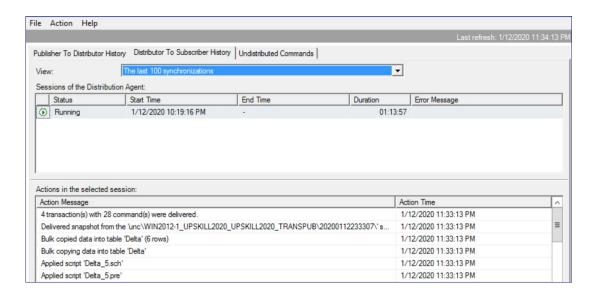
Now go back to the properties of the publication and add in new required articles.

This time, we will add the table **DELTA**. This is the same as the procedure shown above for adding the **Weapon** table.

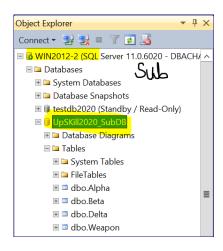
### Step 3: Start the Snapshot Agent of the Publication (of which new articles where recently added).

- Post adding new articles, Right click on the Publication & Select "View Snapshot Agent Status" and start the snapshot agent.
- Load the Replication Monitor and head to our snapshot folder. We will see here a very different scenario this time.
- There is only one table: **DELTA** in the snapshot folder.





Step 4: Now verify that new article is replicated to subscription database on Subscriber Server.



# **Upskill 2020**

## (IT Freshers & Experienced)

Dear Connections,

This is Praveen here (Sr SQL Server DBA) with 10 plus years' experience in Core SQL Server Administration.

I'm from Hyderabad (India) & have planned an Online program named "UPSKILL 2020" for both IT Freshers & Experienced.

Please find more details/benefits from this program.

- 1. Get Mentorship on DBA Skillset (SQL Server, MYSQL, Oracle, MongoDB, etc) & Cloud (Azure, AWS & Google) over Zoom Meetings.
- 2. Get Mentorship on Development Skillset (SQL Sever, MSBI, Power-BI, Java, PHP, etc) & Testing (Automation & Manual) over Zoom meetings.
- 3. Get e-books, pdf files, FAQ's, SOP's, KB Articles, Practice Dumps to help you in improving your respective skill set.
- 4. Get assessed on every 7, 14, 21, 30 days from the respective technology mentors over Zoom Meetings.
- 5. Get 24x7x365 access to our Self Learning Online Video Account.
- 6. Get reviewed on your learnings & assignments on weekly basis by the respective Technology mentors.
- 7. Get Mock Interview calls on respective technologies on weekly basis & get complete reviews to improve your skillset.
- 8. Get assistance from mentors for free till you get the job.
- 9. This entire program is charged at just Rs 2500/\$50 (USD) for lifetime with no expiry & with a full refund if not found worthy at any time.
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