Common issue and fix – Test it out

* Transaction log grow very larger
* DML operation done on subscriber will stop replicate data
* Schema changes DDL

**Design**: SQL 2012 is publisher and SQL 2014 is subscriber & Distributer.

Ex: 1 - Insert

1. Manually insert rows in subscriber 2. Insert the same data in publisher as well– That will break the replication, since PK violation.

Fix: Whatever is inserted manually needs to be deleted from subscriber with where condition.

Ex: 2 – Delete

1. Insert three rows on publisher 2. Delete in wrong order i.e delete first from subscriber 3. Then delete it from publisher

Fix: Insert that deleted rows in the subscriber

Ex: 3 – DDL

1. Add column in subscriber 2. Add column on publisher

Fix: Drop that column from subscriber

**How to fix for these errors and make the replication back to SYNC**

* Full reinitialize for small database.
* Skip the commands in distribution. But make sure are you doing for correct known transactions

Drawback: The entire transaction will be skipped. Manually you can delete or make a dummy insert etc.

* Ignore errors in the agent. But make sure are you doing for correct known transactions

Identify the error number that is causing an issue. Modify the agent profile to ignore the specific error. Restart the distribution agent.

Drawback: We do not know what is exactly skipped. It will tell how many skipped.

* Re-initialize i. Full **snapshot** ii. From **backup** iii. Just initialize the **article** that is only having problem (just drop that article).

**We need to test all three of this.**