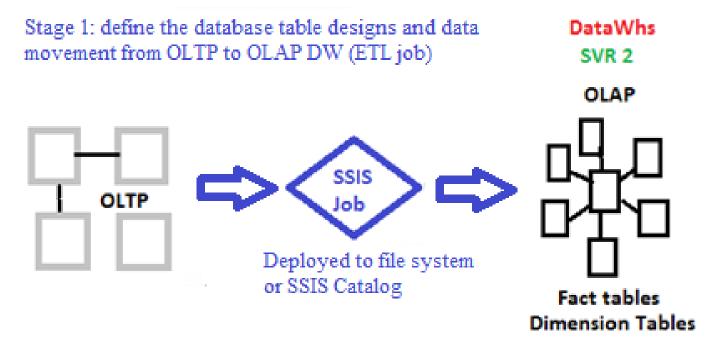
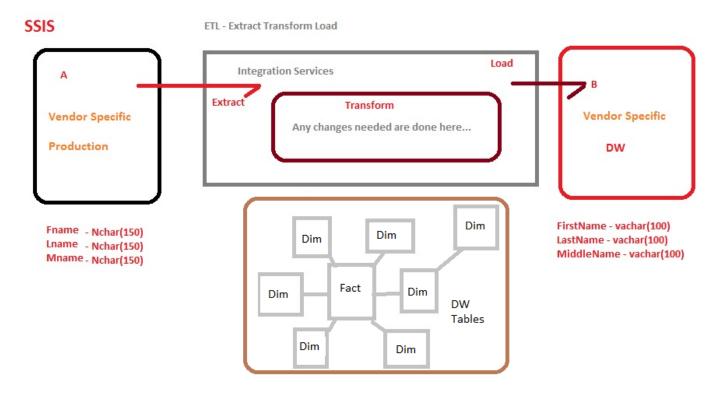


Stage 1 – Production OLTP to OLAP DW – no disaster recovery – no partitioned tables or filegroups (Always use Schemas for tables)

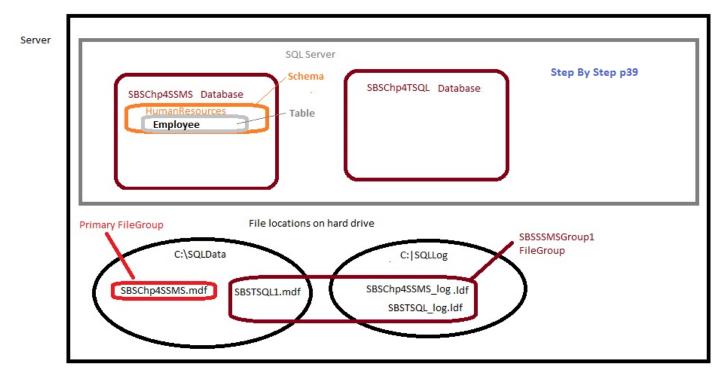


ETL Considerations (Source/Transforms/Destinations/Frequency/Sensitivity – what columns are getting mapped?)





Determine Disaster Recovery; Filegroups & Partitioning (Mirroring, Failover clusters, AlwaysOn Availability Groups)



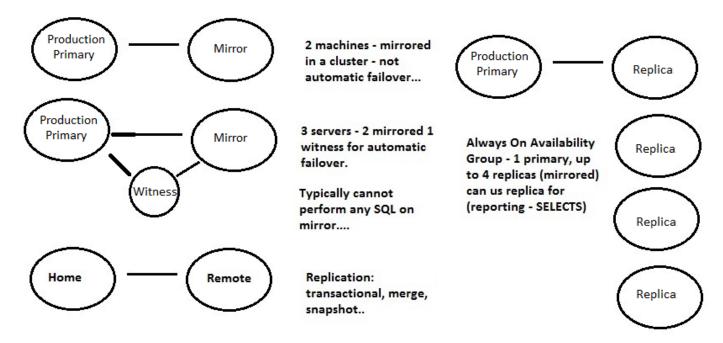
Note: 2016 - up to 8 replicas - figure is 2012 with only 4 replicas



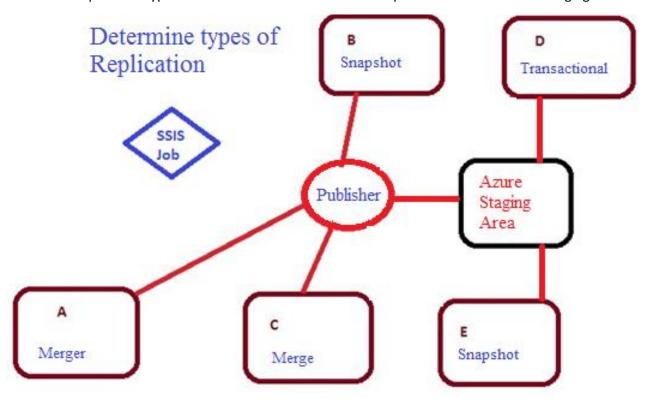
Events: Windows server failover cluster Setup - then create cluster with all nodes Server level Database Always On Availability Always On Availability Users Group - 1 primary, up Group Production Application to 4 replicas (mirrored) Replica Primary Custom Synchronous commit can us replica for 10.10.0.X replicas (reporting - SELECTS) Trigger that fires based 10.10.0.10 on an event.... SQL Dbase Replica Data synchronization 10.10.0.X Moving data from Primary SQL database to 10.10.0.X all replicas that support Replica SQL Failover Cluster the cluster.... Automatic failover Instance replicas 10.10.0.X Replica FIle System Filestream/Filetable Access unstructured data in the file system



Remembering the transaction log and report handling available to the SQL/Windows server structure

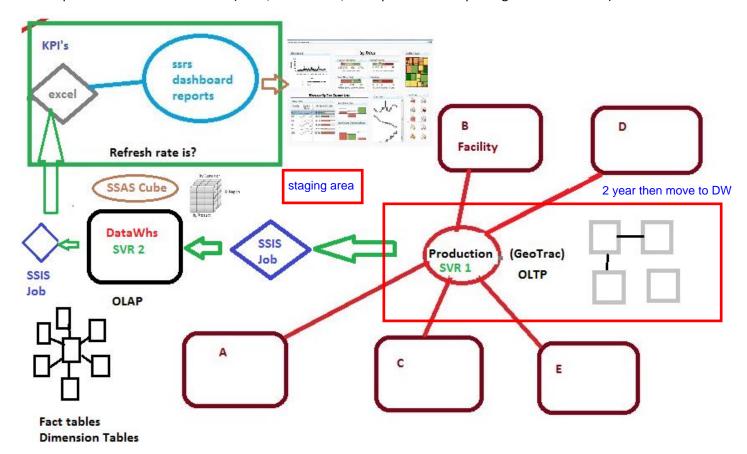


Determine Replication Types: What are the needs of satellite shops? Will we use Azure for staging?





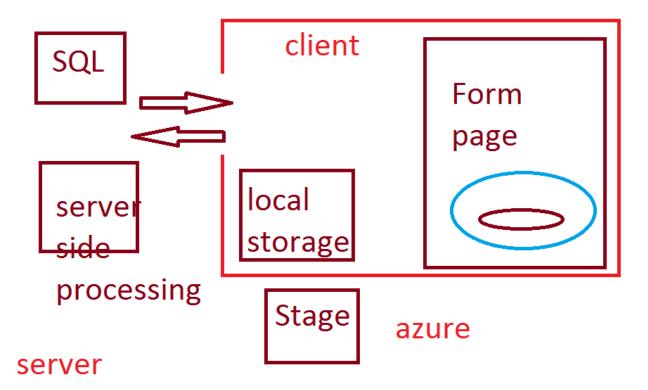
BI Component: show for discussion (Excel/PowerPivot/Sharepoint - SQL Reporting and Dashboards)

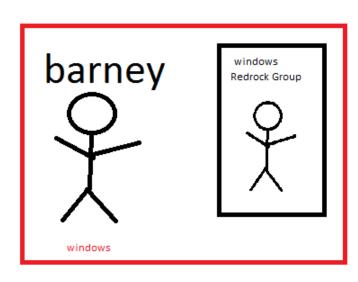


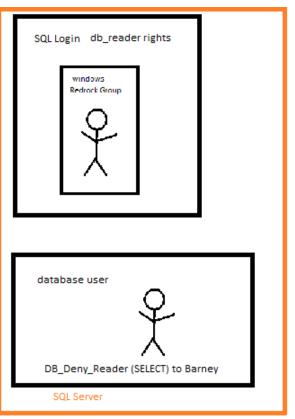
Know your SQL relationships: http://stackoverflow.com/questions/8094156/know-relationships-between-all-the-tables-of-database-in-sql-server

```
SELECT
   fk.name 'FK Name',
    tp.name 'Parent table',
    cp.name, cp.column id,
    tr.name 'Refrenced table',
    cr.name, cr.column id
FROM
    sys.foreign keys fk
INNER JOIN
    sys.tables tp ON fk.parent object id = tp.object id
INNER JOIN
    sys.tables tr ON fk.referenced object id = tr.object id
INNER JOIN
    sys.foreign key columns fkc ON fkc.constraint object id = fk.object id
    sys.columns cp ON fkc.parent column id = cp.column id AND fkc.parent object id =
cp.object id
INNER JOIN
    sys.columns cr ON fkc.referenced column id = cr.column id AND
fkc.referenced object id = cr.object id
ORDER BY
    tp.name, cp.column id
```









Reference: more discovery about your SQL environment

1. View a List of Databases on an Instance of SQL Server: https://msdn.microsoft.com/en-us/library/ms188613.aspx

SQL_Whiteboard_2016

Tim's Notes



- 2. list all table names in SQL Server using T-SQL?: http://stackoverflow.com/questions/2456794/how-do-i-list-all-table-names-in-sql-server-using-t-sql
- 3. sp_tables (Transact-SQL); https://msdn.microsoft.com/en-us/library/ms186250.aspx
- 4. Run this: sp_msforeachdb 'select "?" AS db, * from [?].sys.tables' from: http://blog.sqlauthority.com/2009/04/26/sql-server-list-all-the-tables-for-all-databases-using-system-tables/