Rolling Database Snapshots – Concept Diagram



ProdDB (Principal)

Database Mirroring (Synchronous or Asynchronous)

Synchronous keeps mirror within one transaction of the Principal DB, but can slow production processing.

Asynchronous can get many transactions behind production, but will not hinder production performance



ProdDB (Mirror)

p_CreateTimeStampedDatabaseSnapshot

Create new snapshot every X minutes

p_RemoveOldSnapshots

Remove all but the latest Y snapshots. Can skip snapshots that have active queries.

fn_GetLatestSnapshot(DBName)

Identify the latest snapshot for a given database.



Reporting Process identifies latest snapshot and queries that database for freshest data.

