

# Database Replicate Core

Replication is the process of copying a database to another server, and then keeping the two copies in sync, so that they behave as near as possible.

Replicating data from Source means that as data is updated on the Source Database, the data is replicated within an on-premise database or Cloud area during specific increments in time.

For example, customer data is added, updated, or deleted in Source and the changes are already replicated or synchronized with an on-premise or cloud database. Functionally the synchronization from to database is same as how the synchronization works with outlook and your phone.

Replication applications such as DBSync Cloud Replication helps medium and large enterprises to maintain a local copy of the core-business data either On-Premise or in a Cloud Databases. Such access lets enterprises report the data as required based on a specific requirement or as per regulations.

It also helps in mirroring your Source Database or maintain copies of the data for Historical data maintenance and general good disaster recovery operations

## Key Functions

Key functions of DBSync Cloud Replication are explained in the table below with descriptions of each functions.

Run Process	Actions Performed
<b>Update Database Schema for Source Apps</b>	Creates Source Database schema into Target Database for the selected objects. The application will evaluate the schema difference between a particular Source instance schema and generate "ALTER TABLE" command to add the columns. The system will not remove any existing columns for a given table to maintain historical data.
<b>Source Apps to Database (Clean Copy)</b>	Inserts a clean copy of selected object records into respective Database Tables & Columns. Once the command is executed, the system do a dump of all of the Source data for the selected Objects with their data and structures intact into a target database.
<b>Source Apps to Database (Incremental)</b>	Performs an incremental sync from Source to Target Database based on the changes / edits made in Source. Once initiated, the application will query all tables / objects in Source which have been created or modified since the last synch query and will perform an update or insert in Database tables based on the association between Source to Target Database table last synch Timestamp.