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Subject: Re: Batch Script connecting two databases in an Extract Tranform Load (ETL) Design Pattern

Posted by [rafs](#) on Wed, 03 Jun 2015 10:32:12 GMT

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Both the old and new db schemas have two tables parent --< child representing the same concept: an SID. (So, OLDDDB/IDP.IDP\_ID == NEWDB/SIDS.SID). At any time, all I care is to synchronize only the parents that are enabled, and the current\_version of their respective child tables.

#### OLDDDB (MSSQL)

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```
CREATE TABLE idp {
  idp_id int PRIMARY KEY,          # IDP.IDP_ID = SIDS.SID
  current_version int,            # IDP.CURRENT_VERSION = IDP_S.IDP_VERSION
  idp_status,                    # bitmap where 0x2 is disable flag
  ...
}
```

```
CREATE TABLE idp_s {
  idp_id int,
  idp_version int,
  ...
  PRIMARY KEY (idp_id, idp_version) # composite primary key
}
```

#### NEWDB (POSTGRESQL)

=====

```
CREATE TABLE sids {
  id int PRIMARY KEY,             # not equivalent to idp_id in OLDDDB
  current_signature_id int,       # points to current_verion
  sid int,                       # IDP.IDP_ID = SIDS.SID
  deployment_status_flags int,   # similar to OLDDDB/idp.idp_status
  ...
}
```

```
CREATE TABLE signatures {
  id int PRIMARY KEY,            # not equivalent to anything in OLDDDB
  sid_id int,                   # foreign key, signatures.sid_id = sids.id
  ...
}
```

So, OLDDDB and NEWDB each have a set of currently-enabled (parent, child) pairs represented by a single SID concept

(OLDDDB/IDP.IDP\_ID == NEWDB/SIDS.SID). Data could be synchronized in either direction: old to new, or vice versa. When synching

from one to the other, I do set operations to yeild two sets of sids: (1) those that need to have a new child inserted, and then enable parent; (2) those that need to have the parent disabled in the target db.

In case (2), I would to do a simple update on multiple record sets, but one at a time should be fine; In case (1) I think I

need to iterate through each pair to extract, transform, then load, inserting a new child, then setting the child's id to parent.current\_version (or parent.current\_signature\_id).

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