**DB Connect with Delta Mechanism**

**Applies to:**
SAP BI/BW. For more information, visit the [EDW homepage](http://edw.sap.com).

**Summary**
This Article demonstrates the steps for handling Delta mechanism with Relational Database Management System (RDBMS) like SQL, ORACLE, etc.

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Obaidullah shaikh is a SAP BI Consultant with AG Technologies. He has good skill in technical areas (ABAP) and he has experience of multiple custome reports development and has experience of Migration/upgradation/Audit projects as well.
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Delta Mechanism in DB Connect

SQL Table

Create Table Named (MAT_DESC) as a Base Table

Inserted some Records in that.
SQL Delta Table

Create another Table (Like Delta Queue in SAP R/3) that will be filled with only delta Records,

This table has same columns except the 'DDate', which will be used to provide Delta functionality

Initially, MAT_DESC_DELTA will be blank
Trigger

Create Trigger on MAT_DESC table (whenever any new record will be inserted, this trigger will execute and will fill the Delta table (MAT_DESC_DELTA))

Example: one record is inserted in MAT_DESC

That Record is updated in MAT_DESC_DELTA by Trigger

Similarly create another trigger for Update/Delete Command
Database Connection with SAP BI

Refer the following Link
http://www.sdn.sap.com/irj/scn/go/portal/prtroot/docs/library/uuid/503c4394-cfb6-2e10-349e-85052e8e957d

Data source

In BI, Create Data source that will be based on base table (MAT_DESC)

Info Package

Create Info Package and load it to PSA
Data Transfer Process (DTP)

Create Transformation / DTP and Trigger it

Records in BI

Finally Records in Targets
Update Records in SQL
Enter some New records in MAT_DESC

It will be reflected in MAT_DESC_DELTA

Extract Delta to BW
Go to BW, Change the table of Data source, (MAT_DESC changed with MAT_DESC_DELTA)
Create other Info Package of that Data source

Will extract only Three new records

Then move it to target via DTP
Clear Delta from SQL

Create another trigger that will clear the previous day records from MAT_DESC_DELTA at every Log on that already has been fetched in BI

Here we can create user specific trigger

The Remaining part of Duplication of records can be handled easily in BI, either by ABAP code or passing records through DSO in overwrite mode.
Related Content

http://help.sap.com/saphelp_nw04/helpdata/en/58/54f9c1562d104c9465dabd816f3f24/content.htm

For more information, visit the EDW homepage
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