

InfoSphere DataStage – IBM

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DataStage Enterprise Edition V7.5

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Infosphere Information Server DataStage Change Data Capture

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In this article I will explain where we use change data capture stage in the datastage developemt.

Requirement:

We are getting a file from source system every day and they are extracting everything and sending it to our datastage server. We need to process only new records becuase source is sending everything.

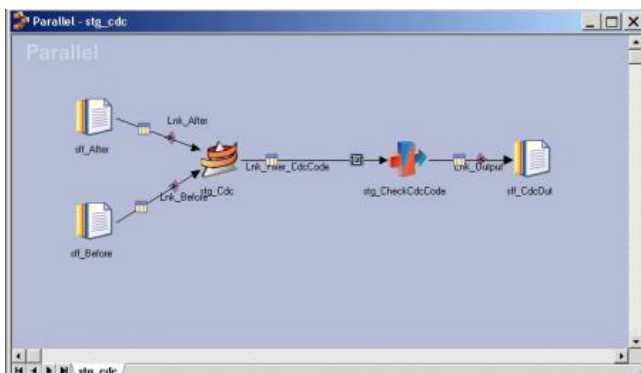
Day1: We received a file cdc_after.dat which contains all data from source. In Day1 we have zero records in our cdc_before.dat, so when we run our job it will produce all records becuase all are new.

Day2: We received cdc_after.dat file with 5 records and we need to process edit, insert rows only. (source will never drop already sent records from cdc_after file–interface agreement)

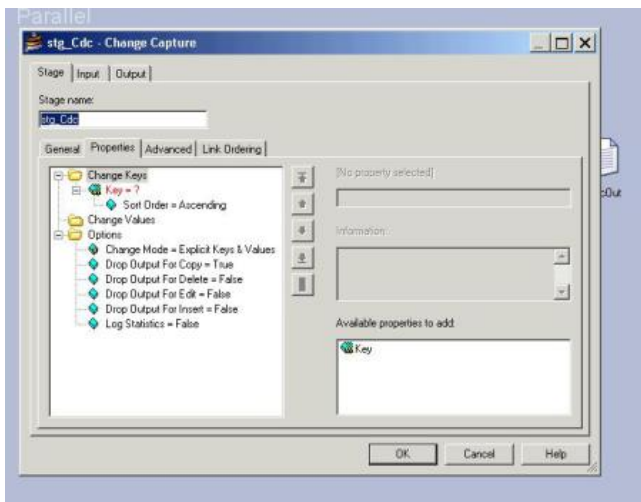
Always after data becomes before data next day.

The stage assumes that the incoming data is key-partitioned and sorted in ascending order. The columns the data is hashed on should be the key columns used for the data compare. You can achieve the sorting and partitioning using the Sort stage or by using the built-in sorting and partitioning abilities of the Change Capture stage.

Job1:



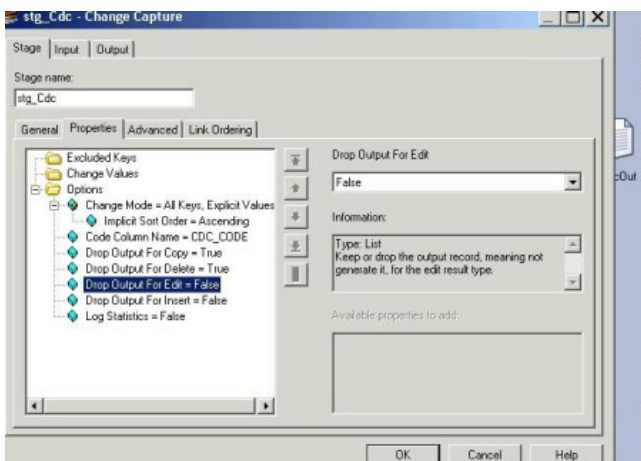
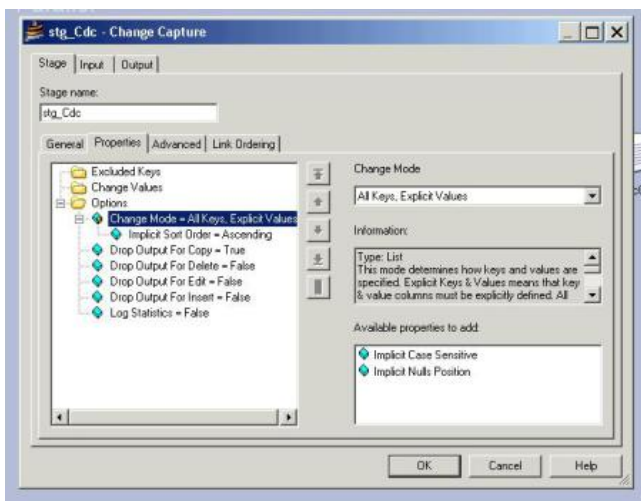
Configuring CDC stage to get only new records.



In the above CDC configuration the main option we use is **Change Mode**.

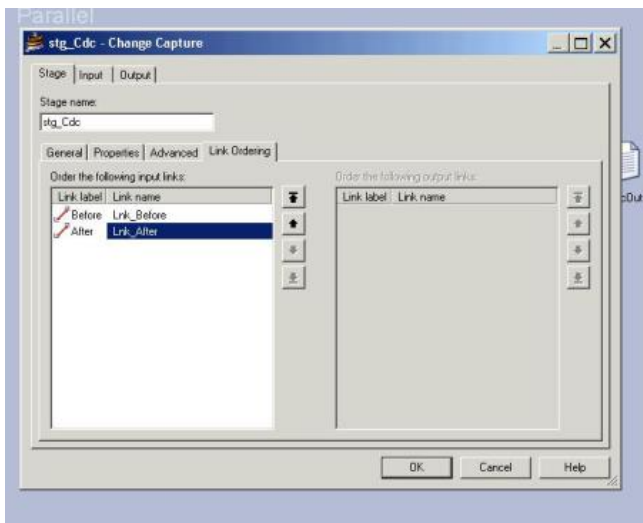
In this scenario we are using **All Keys,Explicit Values**.

All Keys,Explicit Values:In this mode we don't need to specify key columns.

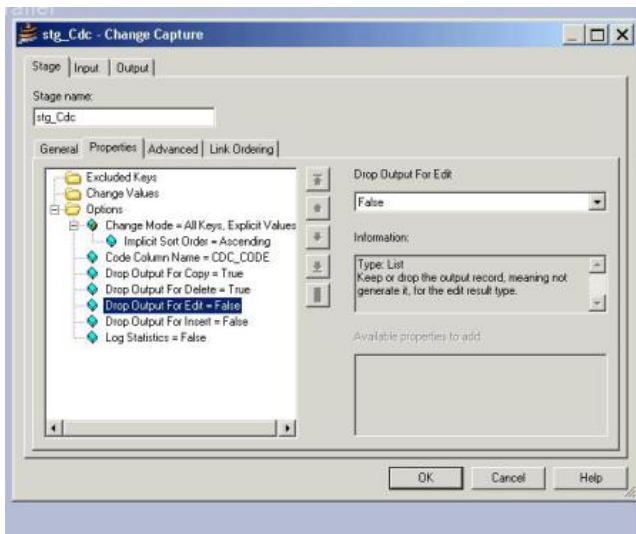


We need only newly inserted or edited record and hence we set **Drop output for insert = FALSE,Drop Output for Edit = FALSE** and the remaining all three are set to FALSE because we don't want copy,edit or delete records.

Note:Always make sure the link ordering is corrected otherwise you will get wrong results.



We need to configure Code Column Name in the options tab:



Copy code

Allows you to specify an alternative value before record. By default this code is 0.

Deleted code

Allows you to specify an alternative value been deleted from the after set. By default

Edit code

Allows you to specify an alternative value version

of the before record. By default this code is

Insert Code

Allows you to specify an alternative value the after set that did not exist in the before

In the transformer stage we will create a cc

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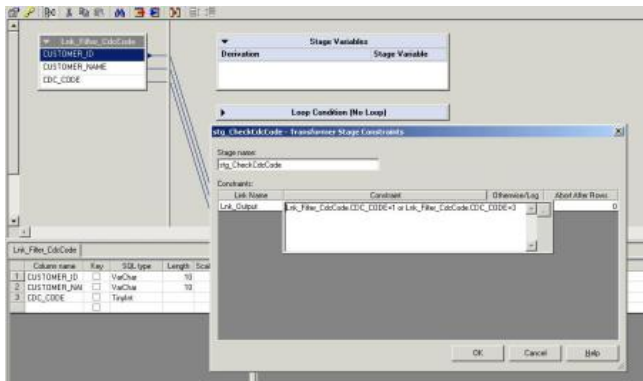
record is a copy of the

ord in the before set has

record is an edited

ord has been inserted in

constraint to their new records are below.



Run the job:

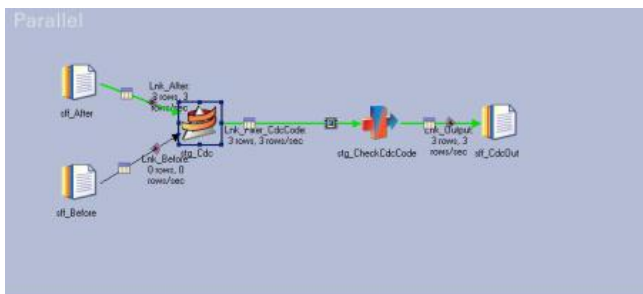
Day1:

cat cdc_after.dat

CUSTOMER_ID,CUSTOMER_NAME
1,UMA
2,MADHU
3,KATRU

cat cdc_before.dat

Output:



CUSTOMER_ID,CUSTOMER_NAME,change_code
1,UMA,1
2,MADHU,1
3,KATRU,1

Day2:

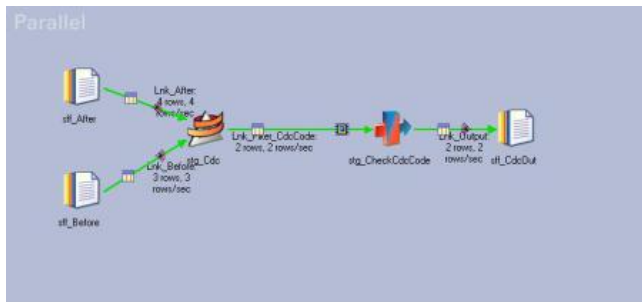
cat cdc_after.dat

CUSTOMER_ID,CUSTOMER_NAME
1,UMA
2,MADHU
3,KATRU1
4,MAHI

cat cdc_before.dat

CUSTOMER_ID,CUSTOMER_NAME
1,UMA
2,MADHU
3,KATRU

Run Job:



```
cat cdc_output.dat
CUSTOMER_ID,CUSTOMER_NAME,change_code
3,KATRU1,1
4,MAHI,1
```

Thanks

Uma

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