iWD Data Mart Reference Guide

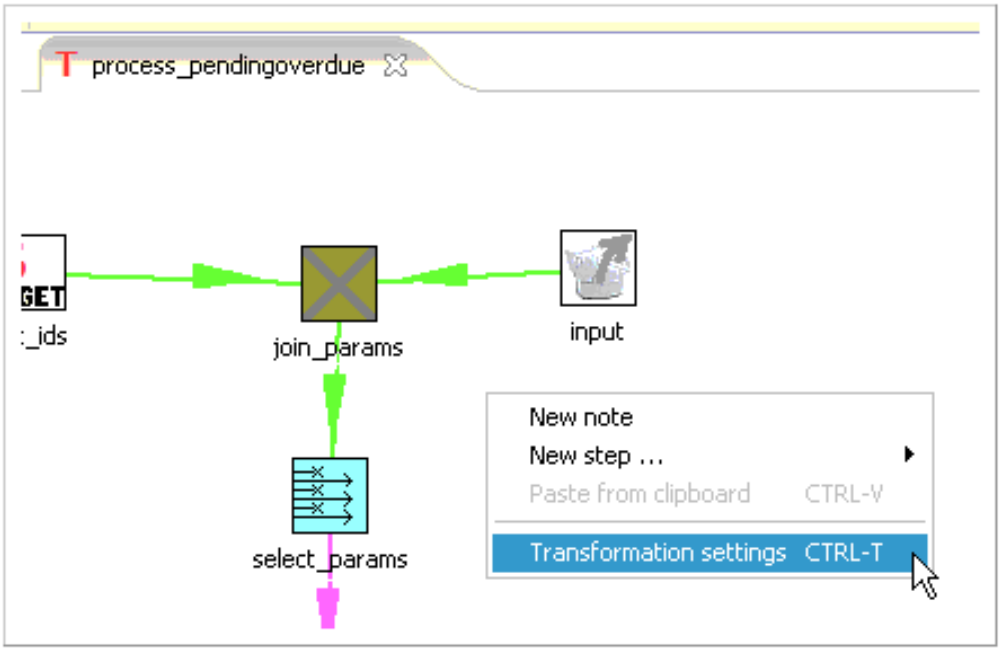
Customization Example

5/7/2025

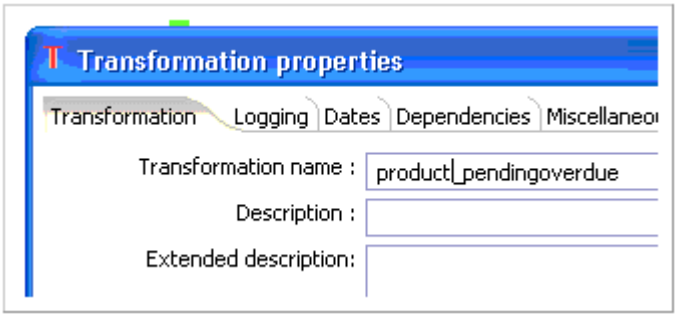
Customization Example

This example creates a new statistic transformation script, `product_pending overdue.ktr`, that calculates how many pending and overdue tasks there are for a particular product. You start by copying the `process_pendingoverdue` transformation script, which calculates similar statistics for the PROCESS dimension. This script references the TASK_CLASSIF_FACT subject area, which supports a join to the PRODUCT dimension.

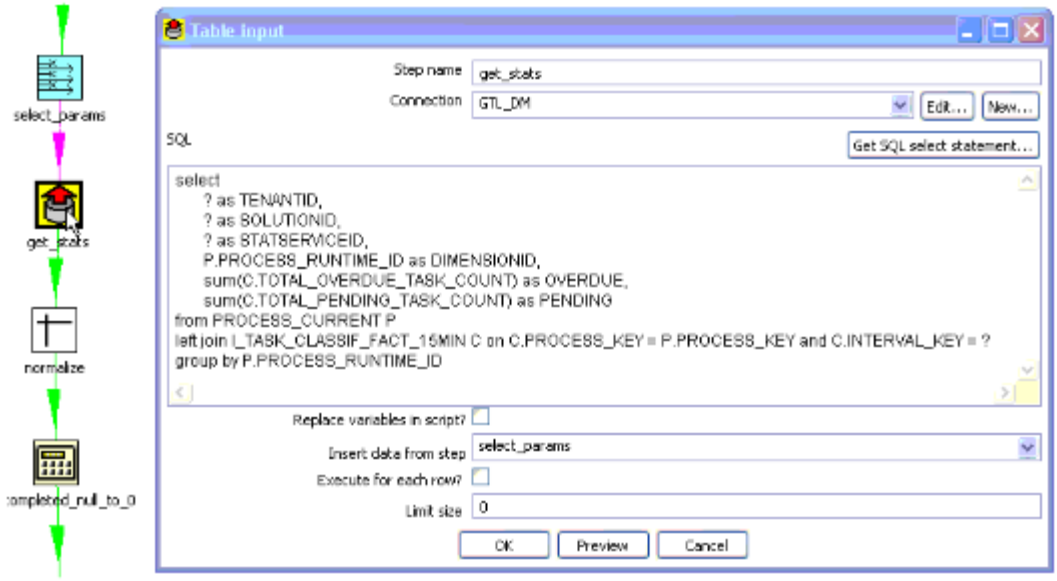
1. In the `aggregate_stats\stats` subdirectory, copy the `process_pending overdue.ktr` transformation script and rename it as follows: `product_pendingoverdue.ktr`
2. Open this script in Kettle ETL Designer.
3. Within the `Transformation` window, right-click and select `Transformation Settings` from the context menu (shown below) to open the `Transformation properties` dialog box.



4. Rename the transformation appropriately and click OK. The figure below uses the name `product_pendingoverdue`.



5. Double-click the `get_stats` step to open the `Table input` dialog box that is shown below. Next, you must update the logic for the calculation of this statistic.

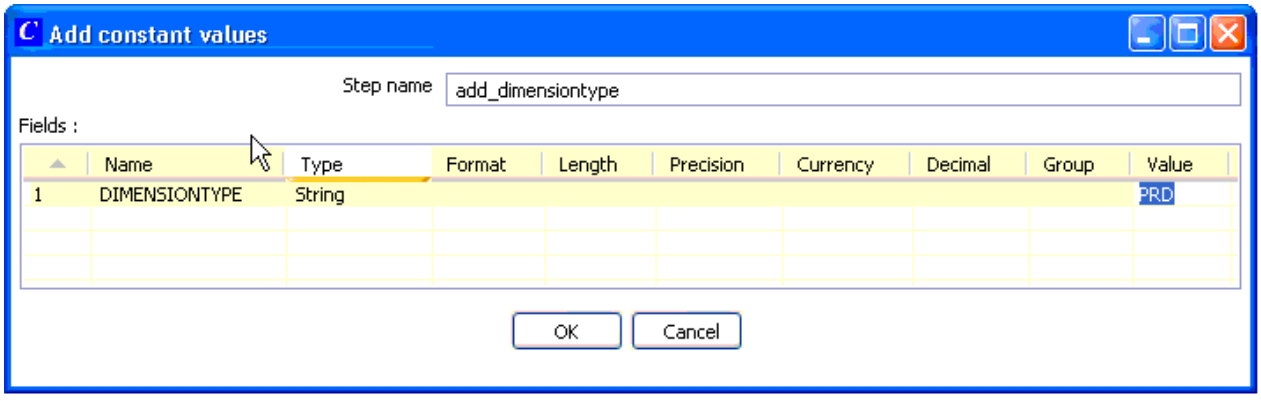


6. Replace the SQL statement with the following and click OK:

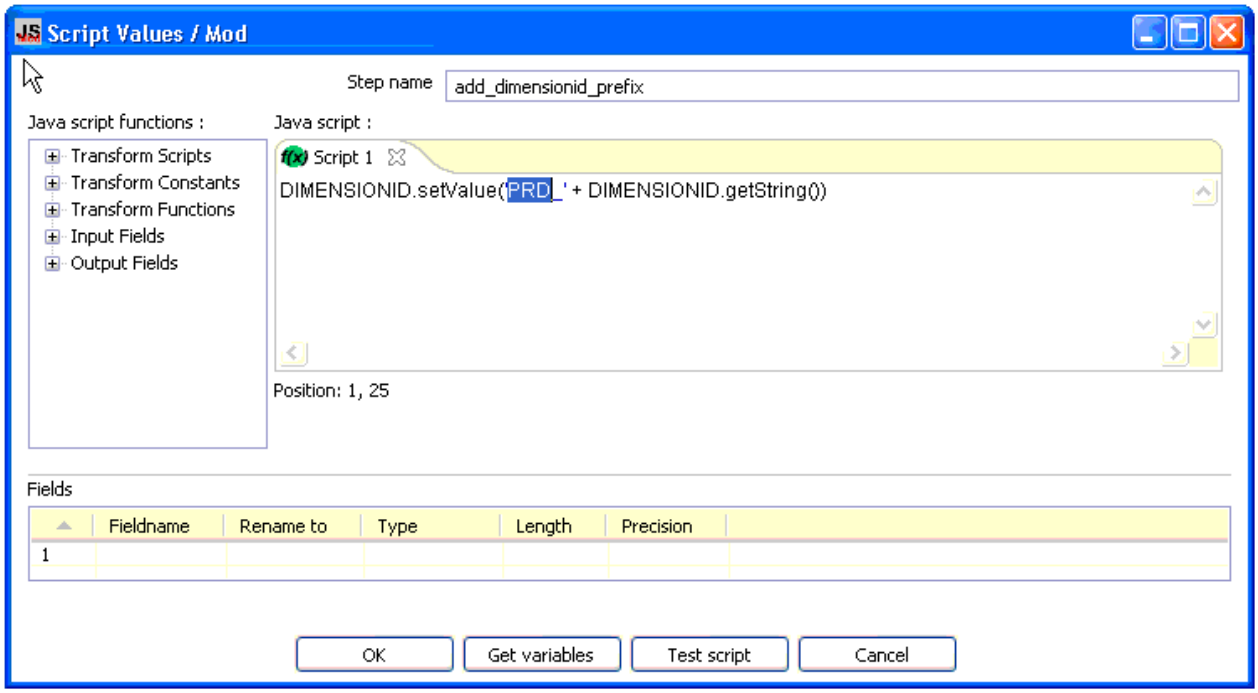
```
SELECT ?                                AS TENANTID ,
       ?                                 AS SOLUTIONID ,
       ?                                 AS STATSERVICEID,
       P.PRODUCT_TYPE                    AS DIMENSIONID ,
       SUM(C.TOTAL_OVERDUE_TASK_COUNT)  AS OVERDUE ,
       SUM(C.TOTAL_PENDING_TASK_COUNT)  AS PENDING
FROM PRODUCT P
     LEFT JOIN I_TASK_CLASSIF_FACT_15MIN C
     ON C.PRODUCT_KEY = P.PRODUCT_KEY
     AND C.INTERVAL_KEY = ?
GROUP BY P.PRODUCT_TYPE
```

   You use a left join on `I_TASK_CLASSIF_FACT_15MIN`, instead of an inner join because you want to retrieve data about all products, whether or not they have tasks associated with them.

7. Double-click the `add_dimensiontype` step to open the `Add constant values` dialog box.
8. Set the value of `DIMENSIONTYPE` to some string, and click `OK`. The figure below sets this string to `PRD`.



9. Double-click the `add_dimensionid_prefix` step to open the `Script Values` dialog box.
10. Change the script to use the dimension-type string that was assigned in Step 8, as shown in the figure below, and click `OK`.



11. Close the Designer, saving all work.
12. Stop iWD Data Mart runtime node.
13. In the `aggregate_stats\stats` subdirectory, using an ASCII editor, edit the `stats.properties` file to enable the statistic. Add the last line shown in the example below, and then save and close the file:

```
${KETTLE_REPOS_DIR}\aggregate_stats\stats\department_activeheld.ktr<br/>
 ${KETTLE_REPOS_DIR}\aggregate_stats\stats\department_newcompleted.ktr<br/>
 ${KETTLE_REPOS_DIR}\aggregate_stats\stats\department_pendingoverdue.ktr<br/>
 ${KETTLE_REPOS_DIR}\aggregate_stats\stats\process_activeheld.ktr<br/>
 ${KETTLE_REPOS_DIR}\aggregate_stats\stats\process_pendingoverdue.ktr<br/>
 ${KETTLE_REPOS_DIR}\aggregate_stats\stats\solution_newcompleted.ktr<br/>
 ${KETTLE_REPOS_DIR}\aggregate_stats\stats\product_pendingoverdue.ktr
```

This new `product_pendingoverdue` script is now ready for ETL to calculate overdue and pending tasks on its next run.