



Validating and reporting errors to the log

- Example

1. Read Input: `sales_data.csv`

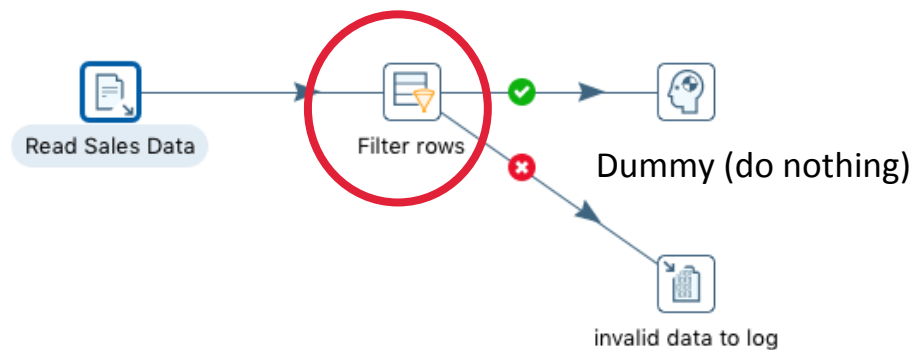
```
1 ORDERDATE, ORDERNUMBER, ORDERLINENUMBER, PRODUCTCODE, PRODUCTLINE, QUANTITYORDERED, PRICEEACH, SALES
2 2/20/2004 0:00, 10223, 10, S24_4278, Planes, 23, 74.62, 1716.26
3 11/21/2004 0:00, 10337, 3, S18_4027, Classic Cars, 36, 100, 5679.36
4 6/16/2003 0:00, 10131, 2, S700_4002, Planes, 26, 85.13, 2213.38
5 7/6/2004 0:00, 10266, 5, S18_1984, Classic Cars, 49, 100, 6203.4
6 10/16/2004 0:00, 10310, 4, S24_2972, Classic Cars, 33, 41.91, 1383.03
```

- The field `product code` is made up of two parts: a prefix and a number. We expect that the prefix be one of the following: `S10`, `S12`, `S18`, `S24`, `S32`, `S50`, `S70`, or `S72`.



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 2. Implement a validation: If the value of prefix code doesn't belong to the expected list, the row will be **reported as an error** and the row of **data will be discarded**





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 2. ...Modifying **Filter rows** step configuring a condition:
 - PRODUCTCODE REGEX **(S10|S12|S18|S24|S32|S50|S70|S72)_.**+ (String)

Filter rows

Step name: Filter rows

Send 'true' data to step: preview correct data

Send 'false' data to step: invalid data to log

The condition:

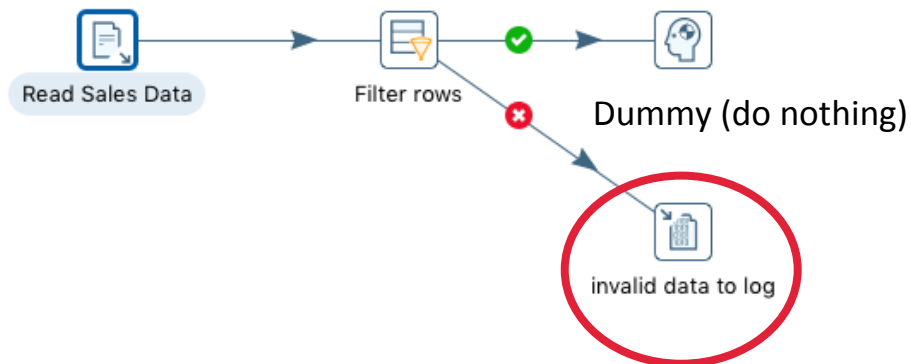
PRODUCTCODE REGEX (S10|S12|S18|S24|S32|S50|S70|S72)_.

(String)



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 3. Configure **Write to log** step



The 'Write to log' dialog box is shown with the following configuration:

- Step name: `invalid data to log`
- Log level: Basic
- Print header:
- Limit rows?:
- Nr of rows to print: 0
- Write to log: `The product code is invalid`

Fields

#	Field
1	ORDERNUMBER
2	ORDERLINENUMBER
3	PRODUCTCODE

Buttons: Help, OK, Get Fields, Cancel



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 - Run the transformation

The screenshot displays a workflow diagram with four steps: 'Read Sales Data', 'Filter rows', 'preview correct data', and 'invalid data to log'. The 'Filter rows' step has a red 'X' icon, indicating an error. Below the diagram is the 'Execution Results' panel, which shows a log of error messages. The log entries are as follows:

```
2018/10/08 13:19:49 - invalid data to log.0 -  
2018/10/08 13:19:49 - invalid data to log.0 - -----> Liner 1-----  
2018/10/08 13:19:49 - invalid data to log.0 - The product code is invalid  
2018/10/08 13:19:49 - invalid data to log.0 -  
2018/10/08 13:19:49 - invalid data to log.0 - ORDERNUMBER = 10131  
2018/10/08 13:19:49 - invalid data to log.0 - ORDERLINENUMBER = 2  
2018/10/08 13:19:49 - invalid data to log.0 - PRODUCTCODE = S700_4002  
2018/10/08 13:19:49 - invalid data to log.0 -  
2018/10/08 13:19:49 - invalid data to log.0 - -----  
2018/10/08 13:19:49 - invalid data to log.0 -  
2018/10/08 13:19:49 - invalid data to log.0 - -----> Liner 2-----
```