# Informatica PowerCenter

Lesson 23: Standards And Tips

# Lesson Objectives

- In this Lesson you will learn about:
  - Naming Convention
  - Tuning Tips

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# Naming Conventions

- Good Practice to Follow Naming Conventions
- Can be project specific:-
  - Workflow: wfl_ followed by workflow functionality
  - Session: s_ followed by mapping name
  - Mapping: m_ followed by mapping functionality
  - Source: Table/File name
  - Target: Table/File name
  - Ports:
    - Input & Output :- Column Names
    - Variable:- v_ followed by functionality

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## Naming Conventions - Transformations:

| | | |
|---|---|---|
| Source Qualifier: | | sql_(followed by Source Name) |
| Stored Procedure: | | sp_(followed by purpose of transformation) |
| Sequence Generator: | | seq_ |
| Expression: | | exp_ |
| Joiner: | jnr_ | |
| Lookup: | lkp_ | |
| Filter: | | fil_ |
| Rank: | | rnk_ |
| Router: | rtr_ | |
| Update Strategy: | | upd_ |
| Aggregator: | | agg_ |
| Normalizer: | | nrm_ |

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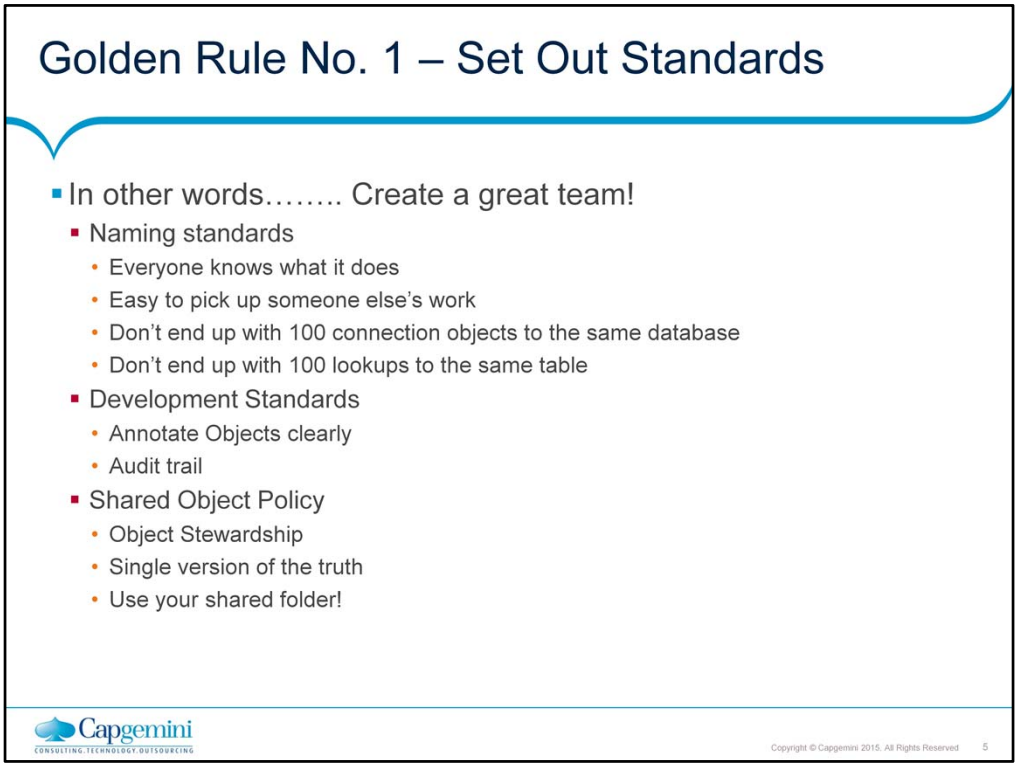
Golden Rule No. 1 – Set Out Standards
In other words…….. Create a great team!
Naming standards
Everyone knows what it does
Easy to pick up someone else's work
Don't end up with 100 connection objects to the same database
Don't end up with 100 lookups to the same table
Development Standards
Annotate Objects clearly
Audit trail
Shared Object Policy
Object Stewardship
Single version of the truth
Use your shared folder!
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## Golden Rule No. 2 – Know Your Data!

- In other words……..talk to the data owners AND see for yourself!
  - Analyse, analyse and analyse again
    - Don't always accept the statement "there are no errors in this data"
  - Verify actual values against permitted values
    - Devise an error handling strategy
    - Implement in all mappings
    - Don't rely on the .bad files
  - Verify the business rules (and get sign off!)
  - Design and unit test with real data – or at least as realistic as possible
  - Will design of source and target help or hinder performance?
    - Indexes
    - Constraints

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## Golden Rule No. 3 – Plan Your Flows

- In other words…….. Know where you're going!
  - Plan for reuse
    - Common lookups
    - Common expressions (e.g. date conversions)
    - Maple's
  - Use appropriate Transformations
    - Routers vs multiple filters
    - SQ Override vs Joiner/Union
    - Expression vs aggregator
  - Make the most of the resources
    - Push processing back to the database
    - Why not stage files?
  - Design for rerun

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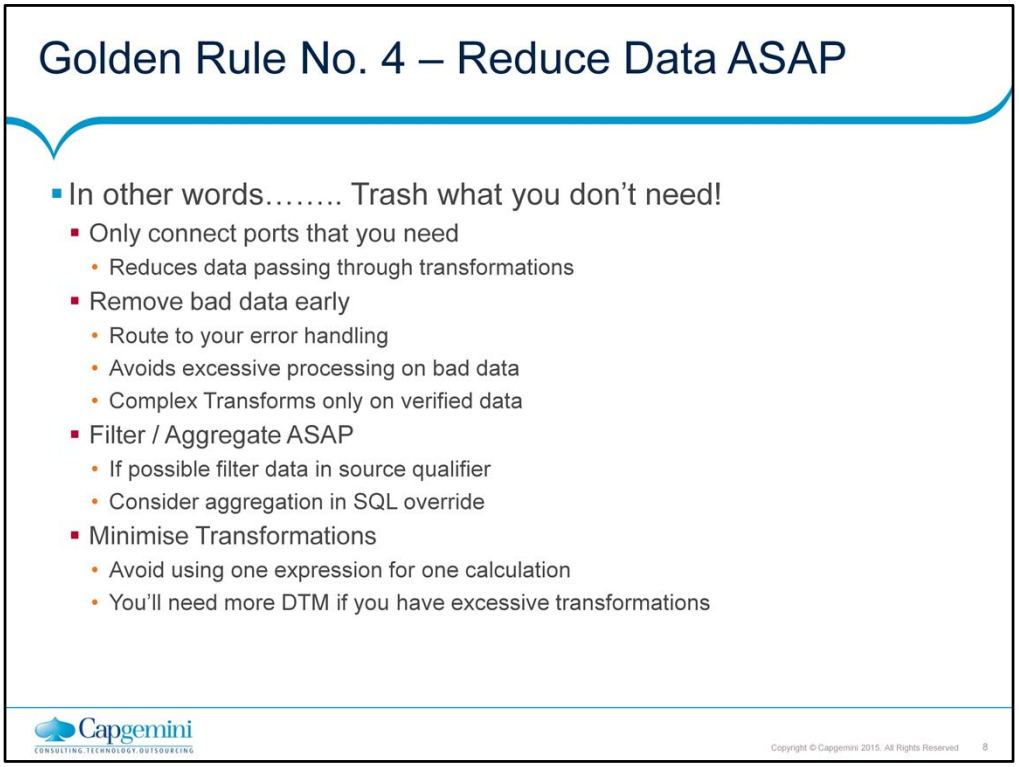
Golden Rule No. 4 – Reduce Data ASAP
In other words…….. Trash what you don't need!
Only connect ports that you need
Reduces data passing through transformations
Remove bad data early
Route to your error handling
Avoids excessive processing on bad data
Complex Transforms only on verified data
Filter / Aggregate ASAP
If possible filter data in source qualifier
Consider aggregation in SQL override
Minimise Transformations
Avoid using one expression for one calculation
You'll need more DTM if you have excessive transformations
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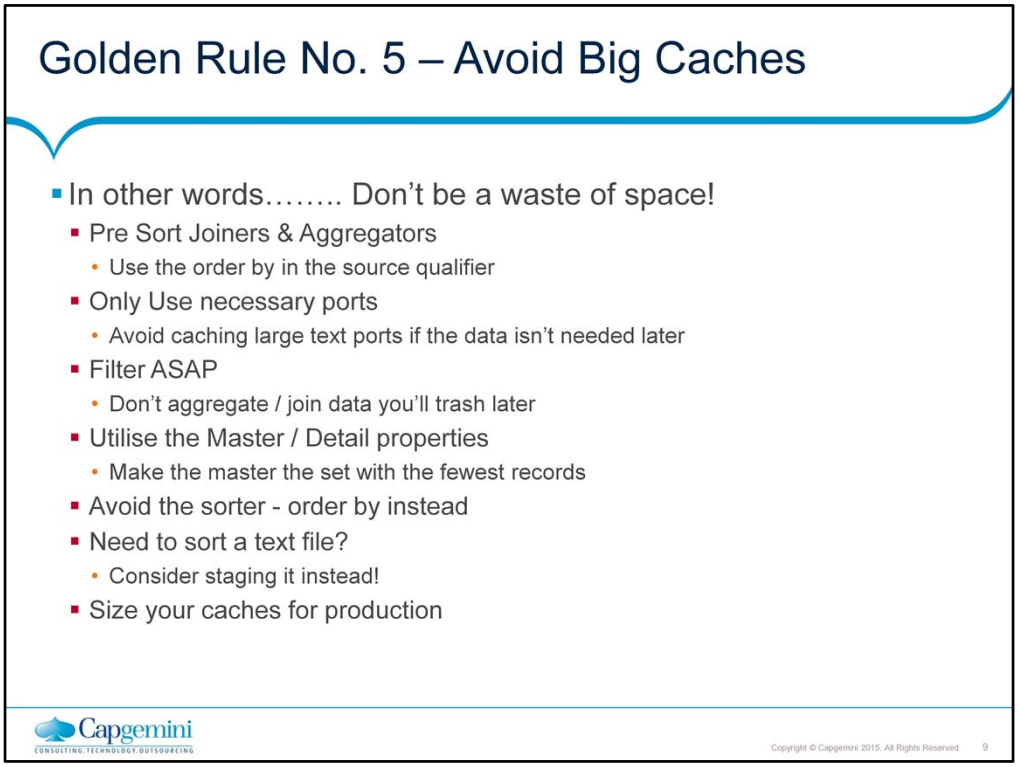
Golden Rule No. 5 – Avoid Big Caches
In other words…….. Don't be a waste of space!
Pre Sort Joiners & Aggregators
Use the order by in the source qualifier
Only Use necessary ports
Avoid caching large text ports if the data isn't needed later
Filter ASAP
Don't aggregate / join data you'll trash later
Utilise the Master / Detail properties
Make the master the set with the fewest records
Avoid the sorter - order by instead
Need to sort a text file?
Consider staging it instead!
Size your caches for production
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## Golden Rule No. 6 – Remember It's Shared

- In other words…….. Be a good neighbour!
  - Use Fewer concurrent sessions
    - Running more may cause other teams to go into wait state (and in production this means missed deadlines)
  - Use performance stats only when tuning
    - Session requires twice the memory which may cause other sessions to fail

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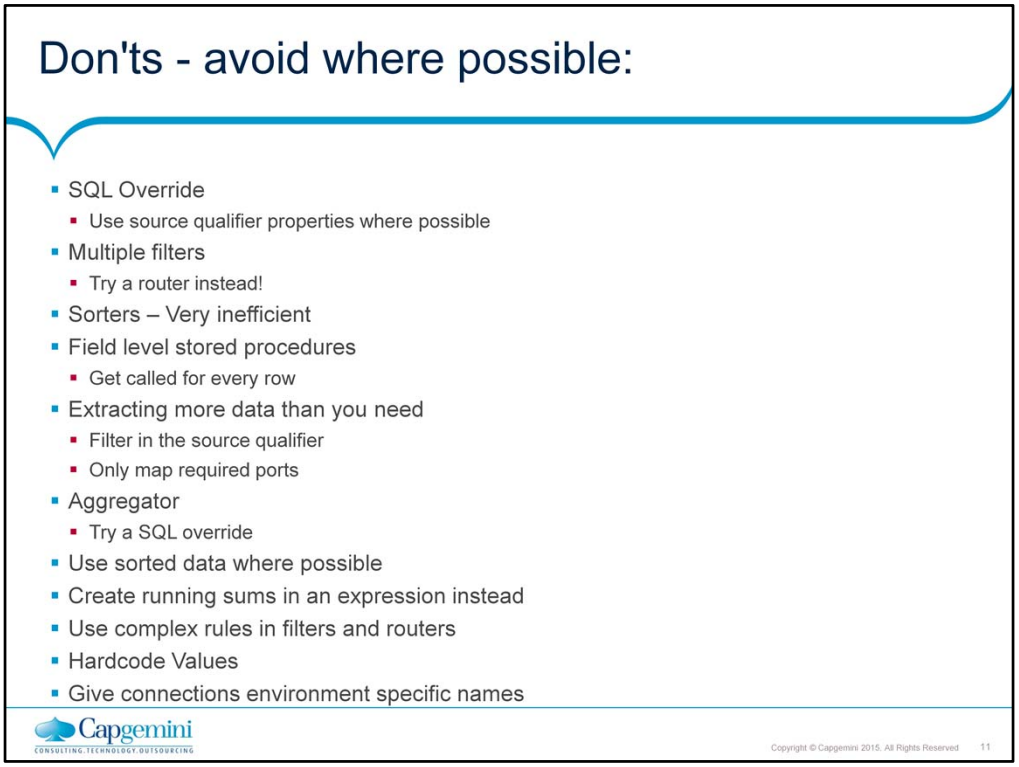
Don'ts - avoid where possible:
SQL Override
Use source qualifier properties where possible
Multiple filters
Try a router instead!
Sorters – Very inefficient
Field level stored procedures
Get called for every row
Extracting more data than you need
Filter in the source qualifier
Only map required ports
Aggregator
Try a SQL override
Use sorted data where possible
Create running sums in an expression instead
Use complex rules in filters and routers
Hardcode Values
Give connections environment specific names
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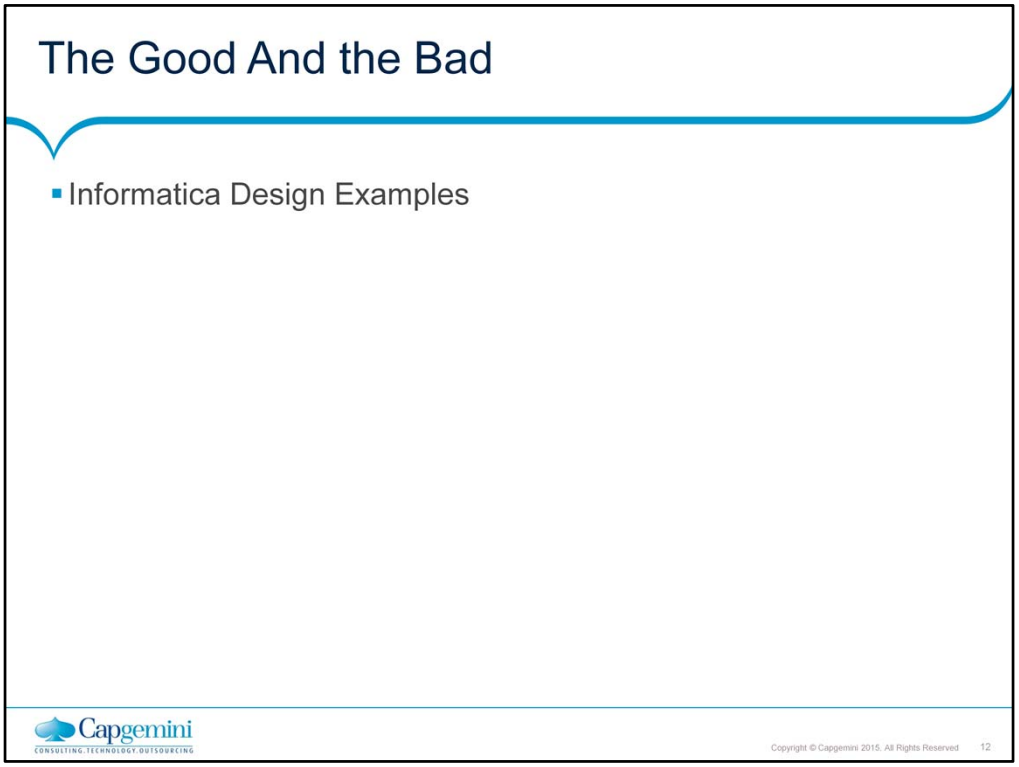
The Good And the Bad
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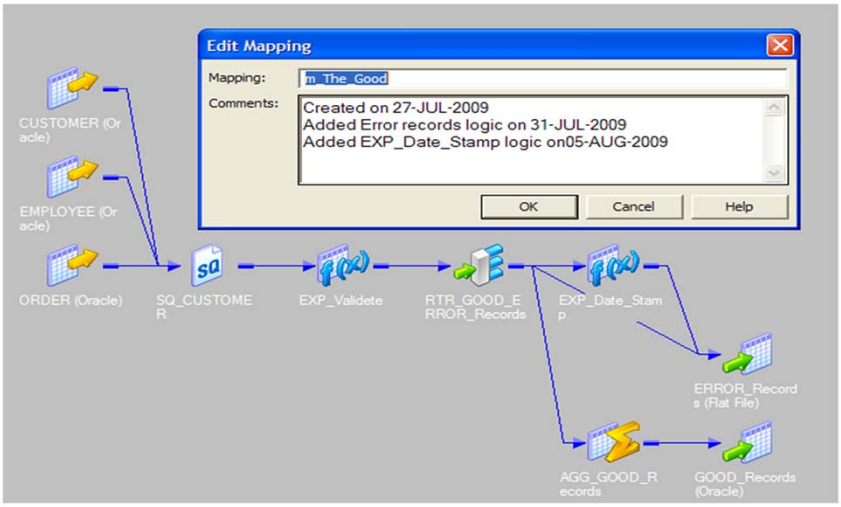
# The Good……

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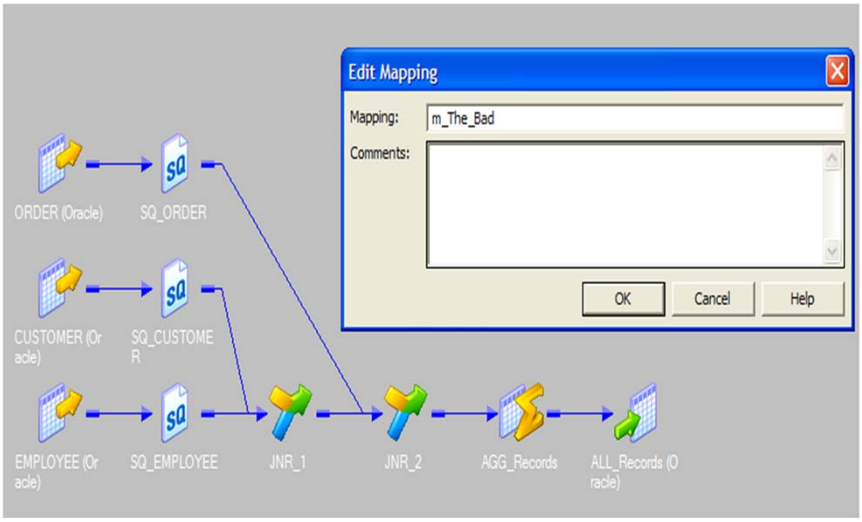
## The Bad……

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## Summary

- This Lesson gives knowledge about Standard Naming convention and designing tips.


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