

# Sharing the Wealth: A Methodology for Preventing Wheel Re-Invention

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Synecotics for Management Decisions

# Introduction

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- Commandment X.
  - Thou shalt not reinvent the Wheel, nor the Common Code Table, nor the Commonly Used Procedure, nor anything that has already been invented, but shall develop with reusability and sharing in mind.
- Alternate wording for commandment X:
  - Thou shalt covet thy neighbor's Common Code Table, his Commonly Used Procedure, and anything and everything that has already been invented, and shalt share thine own good stuff too.

# Background

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- The Special Application called “COMMON”
  - The DBA is the Project Manager
  - The Application Schema is COMMON
  - The DBA names (or is) Application Schema Manager for Common
- Execute or Select is granted to PUBLIC

# Sources of Common Objects

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- Books - ex. Feuerstein's Advanced PL/SQL Programming
- Oracle World Wide Web Sites
  - The example packages are at [//http://www.smdi.com/johnf](http://www.smdi.com/johnf)
  - Oracle Magazine - [//http://www.oramag.com](http://www.oramag.com) has some sharable objects
  - User Group sites
- Oracle Technical Bulletins and White Papers

# Proposing a new COMMON Object

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- e-mail the DBA
- attach code and documentation if available
- DBA should acknowledge and **Thank**

# Proposing a new Object (2)

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- Review - DBA or Committee?
  - DBA alone can give fast response but -
  - DBA alone may be arbitrary and authoritarian
  - Committee brings several points of view but -
  - Tougher to get a committee to make a decision and ACT
- Whichever way you go, make it a priority to give quick responses

# Duties of Reviewers

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- Make sure that this requirement is not already met by an existing object.
- Take into consideration the potential of the object for re-use.
- Suggest modifications to make it better

# Acceptance Procedures

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- Reviewers accept or reject the proposal.
- Either way, the DBA will send a reply to the proposer to notify her/him of the decision.
- Accepted Proposal:
  - the proposed object is scheduled for development

# Development may proceed in one of two ways.

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- Code and documentation was attached to the proposal?
  - The DBA and/or the Application Schema Manager for the COMMON Schema review the submitted code and documentation, proceeding to step 7.
- No Code and documentation?
  - Resources are applied as Available
  - Proposer or other interested parties invited (encouraged) to provide resources

# Implementation Procedures

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- When development is complete, code and documentation is passed to the DBA for review.
- DBA and/or the Application Schema Manager for COMMON review and test the code and documentation for the new object.
- Code and documentation is cycled back to the developer(s) as needed.
- The code and documentation should normally meet the standards laid out in this and other documents.

# Implementation Procedures (2)

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- The Application Schema Manager for COMMON implements the object
  - Creates new database objects (executes DDL)
  - Implements regular update procedures
  - Or adds the object to a shared object library.
- The Application Schema Manager for COMMON:
  - edits the Object Documentation Library to add the documentation of the new object.

# Notification

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- The Application Schema Manager for COMMON notifies the DBA that the new object is ready for use
- The DBA notifies developers about the new object with an e-mail message
  - Always acknowledge the proposer, and development team.

# Documentation and Publishing

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- Proposed Documentation Format:
- Procedure for Publishing Documentation

# Example of a Object Documentation Library:

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- State Code/Name Table

Object Name: STATE\_INFO

Object Type: TABLE

Object Environment: Oracle Database

- Description

- Columns

# Example of a Object

## Documentation Library (2):

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- Conversion Functions with Defaults

Object Name: CNVT

Object Type: Package

Object Environment: Oracle Database

- Description

- Included Subobjects

  - » TO\_DATE\_DFT

    - Description

    - Parameters

# Example of a Object

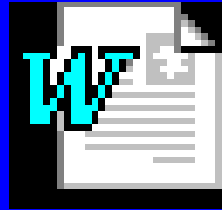
## Documentation Library (3):

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- Conversion Functions with Defaults
  - Included Subobjects
    - » TO\_NUMBER\_DFT
      - Description
      - Parameters
    - » TO\_DURATION
      - Description
      - Parameters
      - Example

# Demonstration of Documentation Library

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Document

# Summary

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# About Me

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