

# *Database for CARE-HHH simulation codes web repository*



**H**igh Energy  
**H**igh Intensity  
**H**adron Beams

**APD**

Accelerator Physics and synchrotron  
Design

Romain Basset



Summer Student Programme

# Outline

- Why a repository ?
- Why a database ?
  - Why ORACLE ?
- 2 different tools



# *Why a repository ?*

- What is a repository ?  
A repository is a central place where data is stored and maintained.
- Motivations
  - Deliverable for CARE
  - Improve the collaboration between HHH laboratories
  - Improve the infrastructure of accelerators physics



# *Why a database ?*

- Requirements :
  - A search engine
  - A standard format for the code pages
  - Easy to use
  - Easy to maintain



# *Why ORACLE ?*

- ORACLE Designer : CASE tool
- ORACLE Database Management System
- ORACLE PL/SQL Web Toolkit
- Available at CERN
  - ORACLE support team

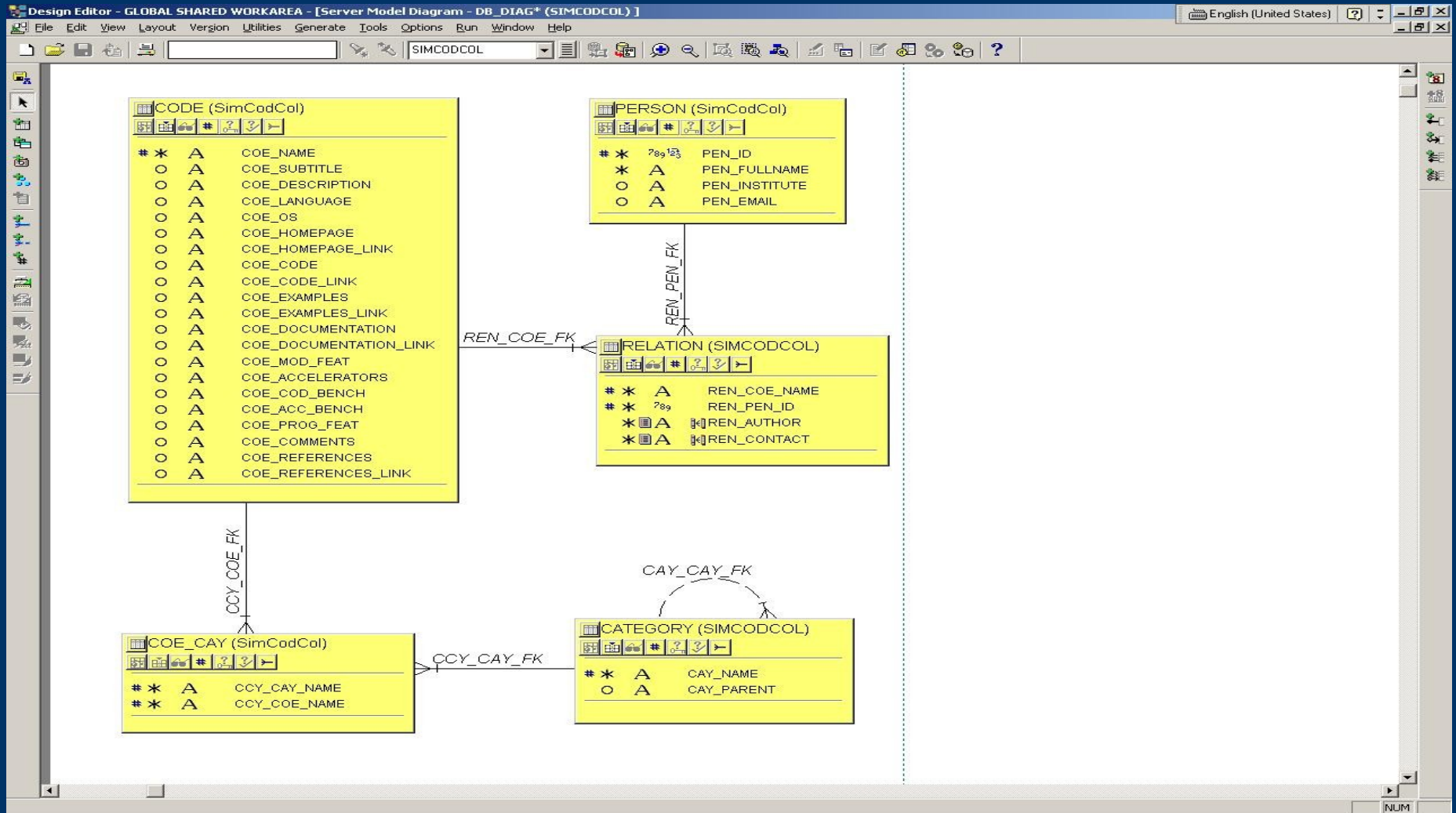


# *ORACLE Designer*

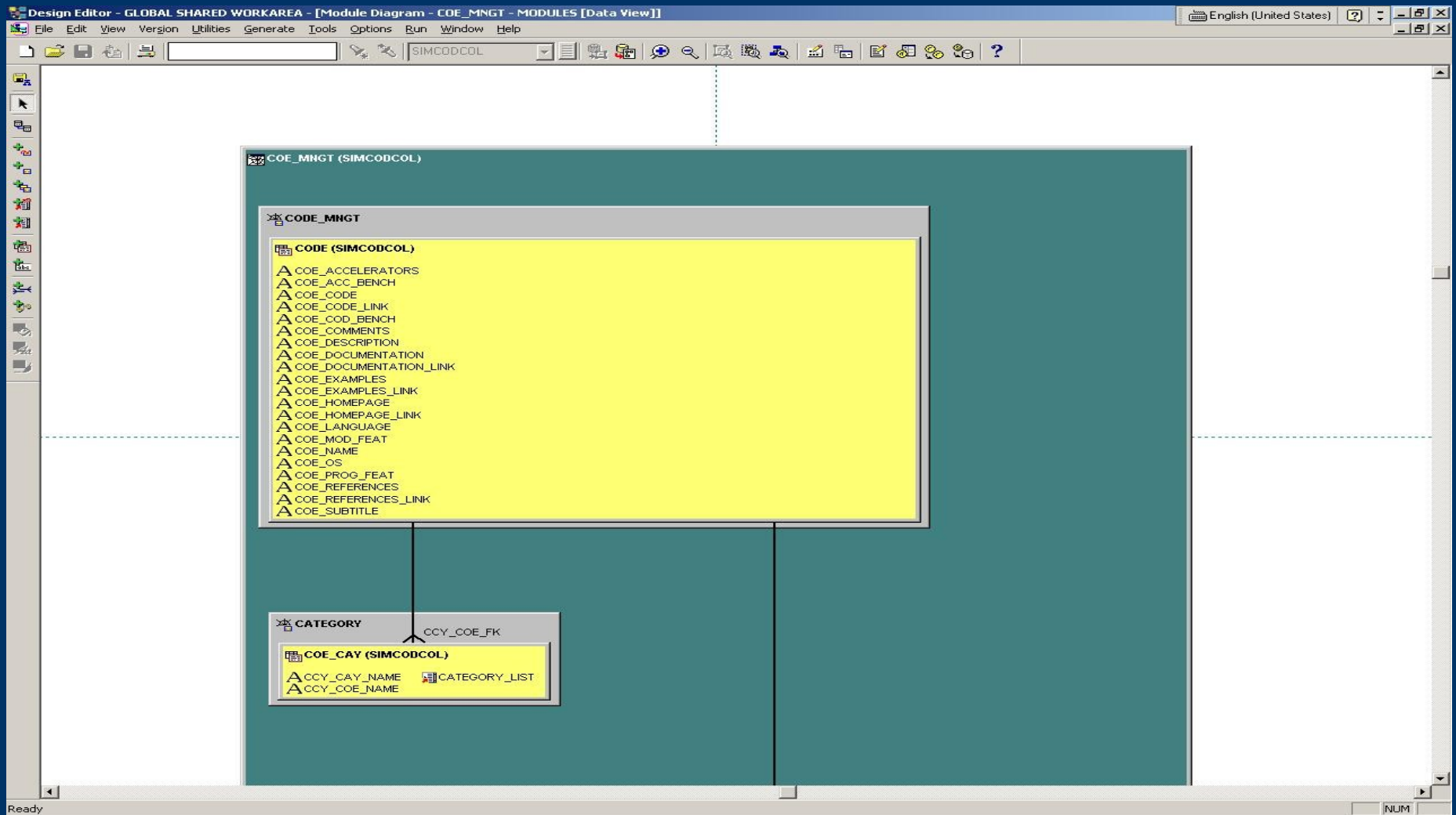
- CASE : Computer Aided Software Engineering
- Development suite
  - Database design
  - Application design
  - Code generation



# Database design



# Application design





## *2 different tools*

- The repository
  - Display the code pages dynamically
  - Search engine
- The database management tool
  - Securised
  - Help the webmaster to manage the data



# Links

- Repository

[http://oraweb.cern.ch:9000/pls/hhh/code\\_website.startup](http://oraweb.cern.ch:9000/pls/hhh/code_website.startup)

- Database management

[http://oraweb.cern.ch:9000/pls/hhh/web\\_code\\_mngt\\$.startup](http://oraweb.cern.ch:9000/pls/hhh/web_code_mngt$.startup)

(note : those 2 addresses will maybe change when the database is on the production server)

- APD website

<http://care-hhh.web.cern.ch/care%2Dhhh/CARE-HHH-APD/CARE-HHH-APD.html>

(you can reach the two other websites from here)

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## *Still to do*

- Move it to the production database server
  - Finish the documentation
    - User guide
    - Developer guide
  - Complete the database
  - Correct the last bugs ?
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*Thank you for your attention*

- Any question ?
- Any comment ?

