



IBM Software Group

# IMS DLIModel Utility

## *Introduction and demo*

### **An IBM Proof of Technology**

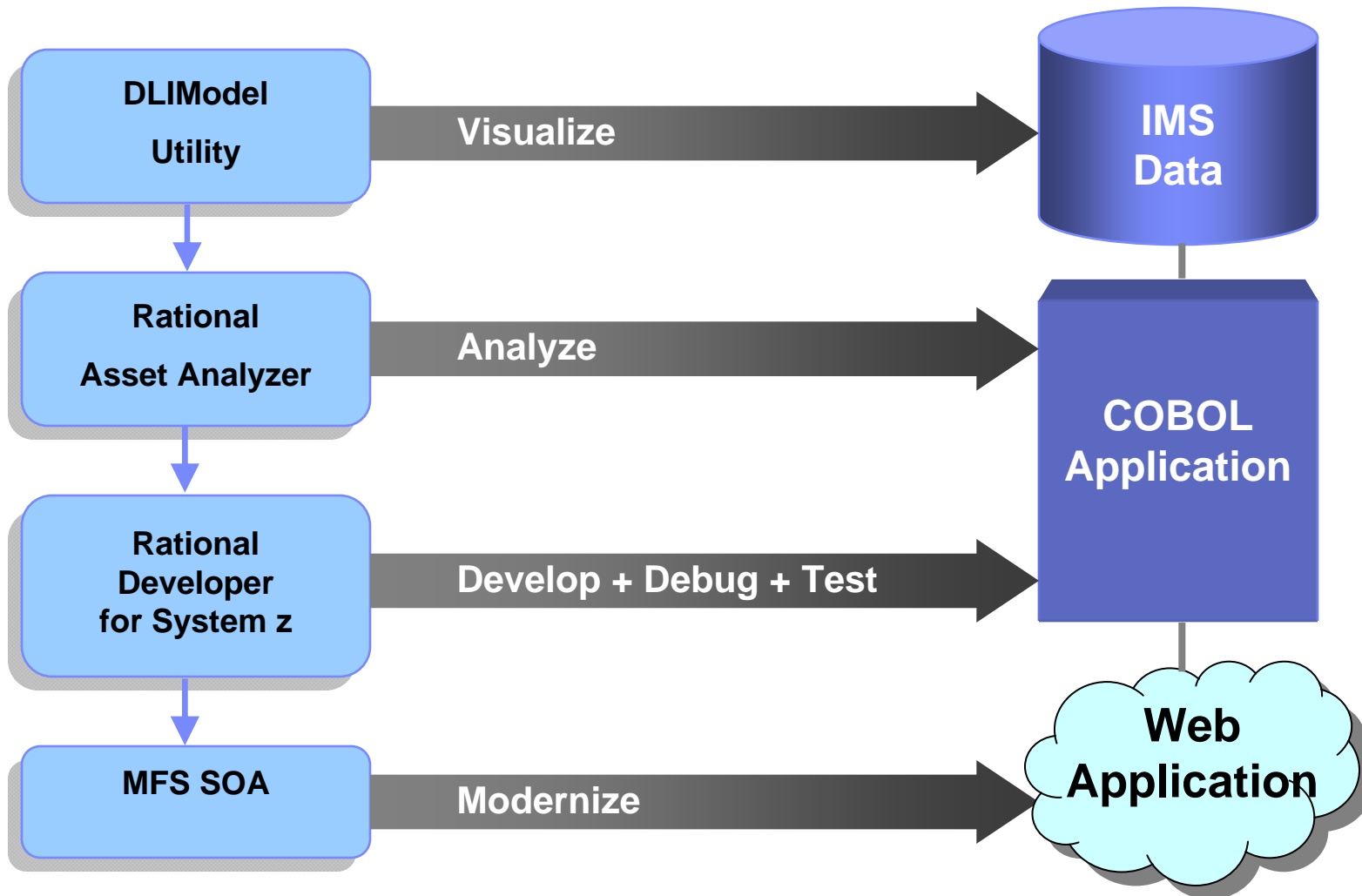
Powered by IMS Development at Silicon Valley Lab, California



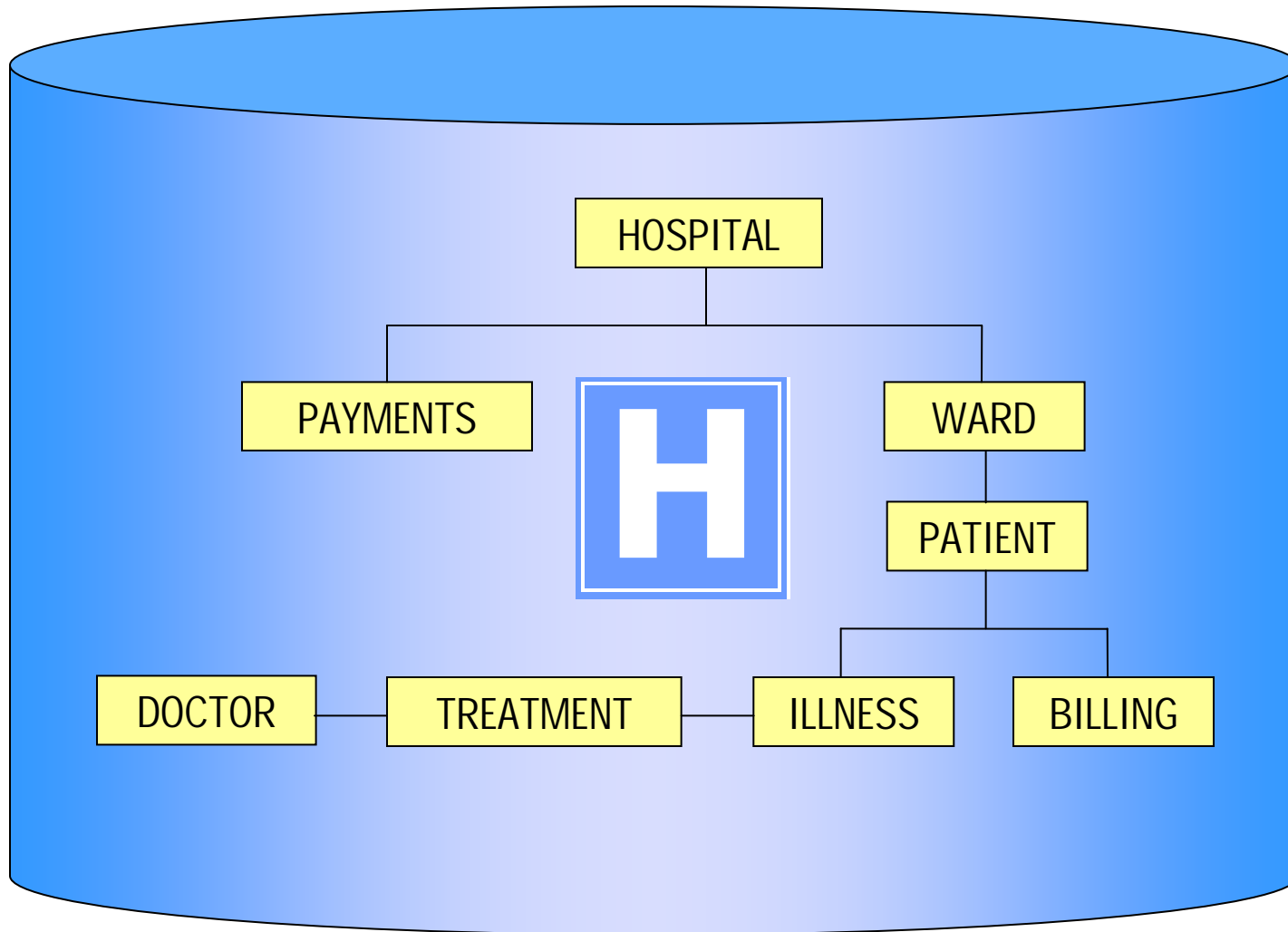
Application Development for IMS

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# COBOL Application Development Workflow



# Hospital Sample Database



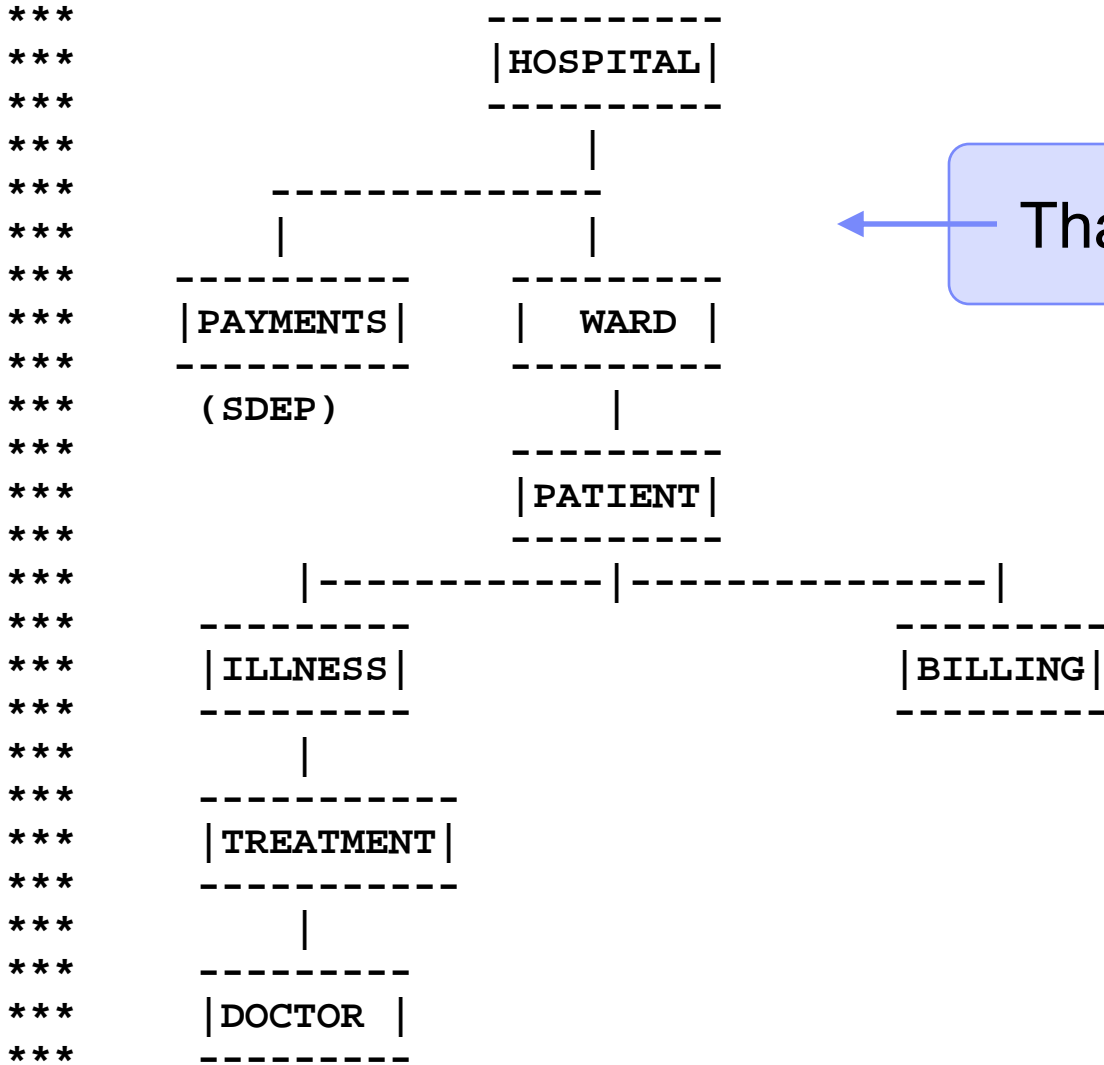
# Database Description (DBD)

```
SEGM      NAME=HOSPITAL,
          PARENT=0,
          BYTES=(16000,12100),
          RULES=(LLL,HERE)
FIELD NAME=(HOSPCODE,SEQ,U),
          START=3,
          BYTES=12,
          TYPE=C
FIELD NAME=(HOSPNAME),
          START=15,
          BYTES=17,
          TYPE=C
FIELD NAME=(HOSPNAMX),
          START=15982,
          BYTES=17,
          TYPE=C
FIELD NAME=(HOSPLL),
          START=1,
          BYTES=2,
          TYPE=X
SEGM      NAME=PAYMENTS,
          PARENT=HOSPITAL,
          BYTES=(900,20),
          TYPE=SEQ,
          RULES=(LLL,FIRST)
```

...



# Visualizing Database



← That is one way to do it ...



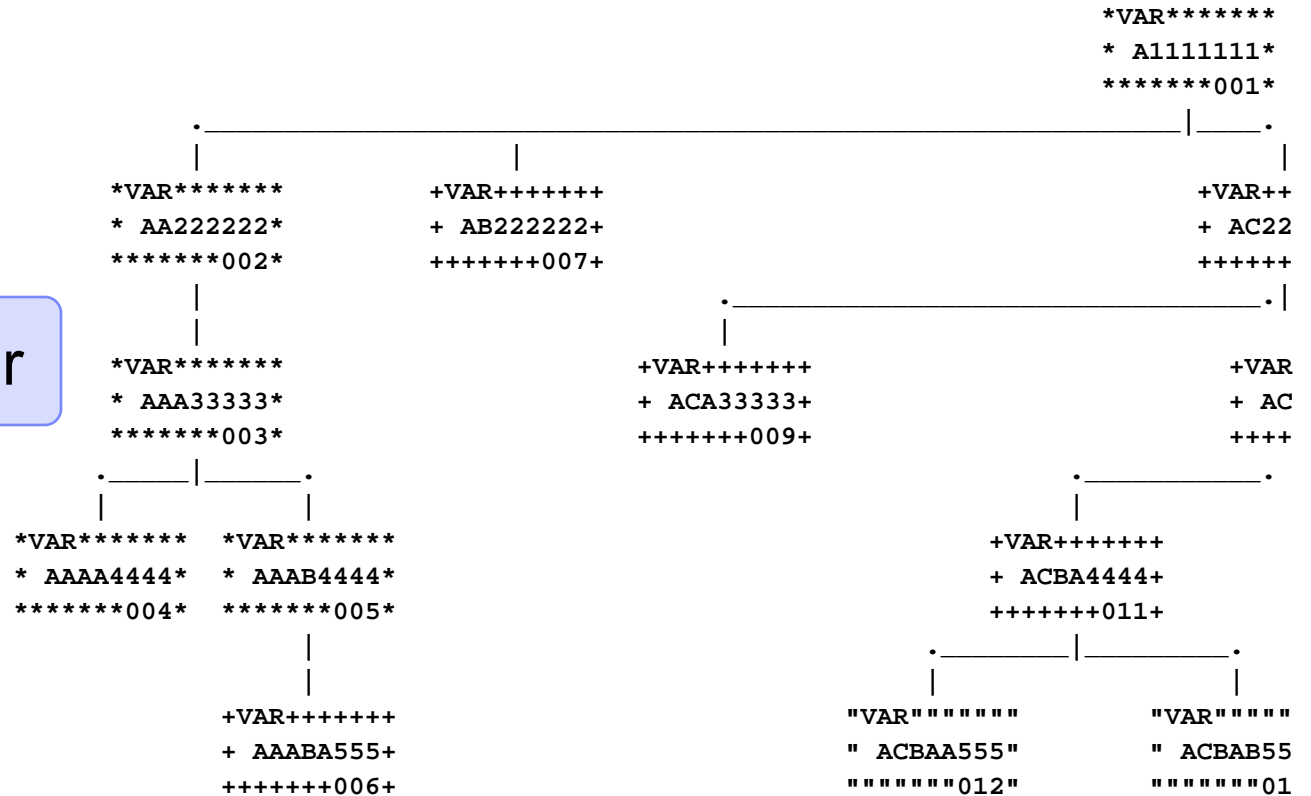
# DBD Mapper

```

IMS LIBRARY INTEGRITY UTILITIES - DBD/PSB/ACB MAPPER          "DBD MAP"          PAGE:      A
5655-U08              DATE: 09/21/2008  TIME: 12.13.02      FABMDMAP - V2.R1
  DBDNAME=SAMP01Z    VOLUME=IMSVS    DSNAME=IMSVS.DBDLIB    DBDGEN:08/10/2000 18.21
  DBDMAP OF SAMP01          ACCESS=HDAM VSAM
    
```

ALL SEGMENTS WITHIN A SINGLE DATA SET GROUP ARE DISPLAYED USING THE SAME CHARACTER FOR BOX DELIMITERS.

This is a little better



## Solution: DLIModel Utility

- A tool that offers a visual representation of IMS databases, simplifies IMS metadata generation, eases IMS Java and XML Database application development
- DLIModel Utility is supported in IMS V10+
- Runs on the z/OS or as an Eclipse plugin from RDz
  - ▶ Starting with IMS V10 we will no longer ship z/OS version
- Available as a free download at:

<http://www-306.ibm.com/software/data/ims/toolkit/dlimodelutility>

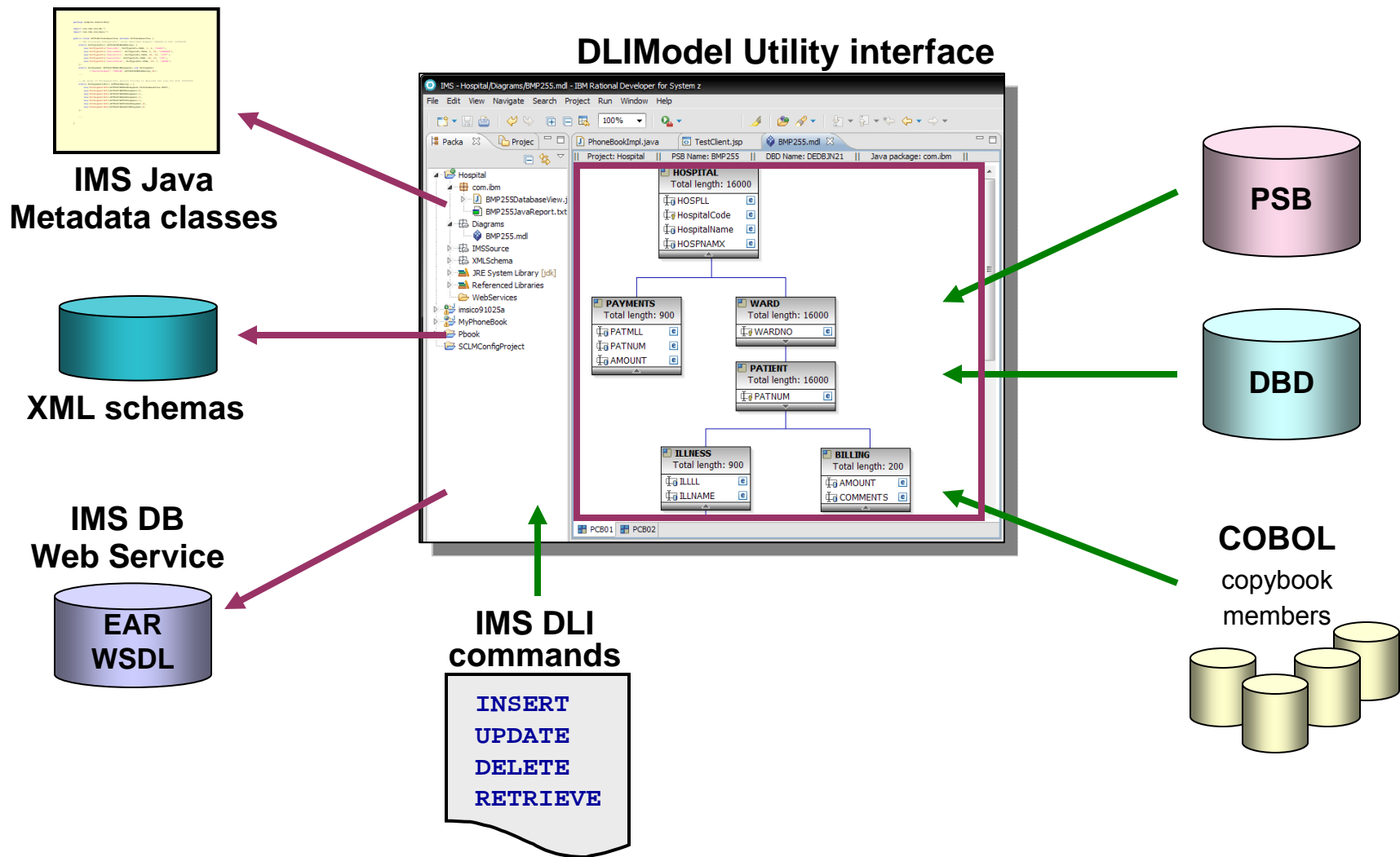


# The DLIModel Utility GUI

- Features:
  - ▶ generate a layout report
    - designed to assist application programmers in understanding applications based on existing IMS database structures
  - ▶ transform IMS database information (PSBs, DBDs, and COBOL copybooks) into application independent metadata
  - ▶ generate XML schemas of IMS databases, which are used to retrieve or store XML data in IMS databases
  - ▶ generate database Web services



# IMS DLIModel Utility



# IMS SOA Solutions

