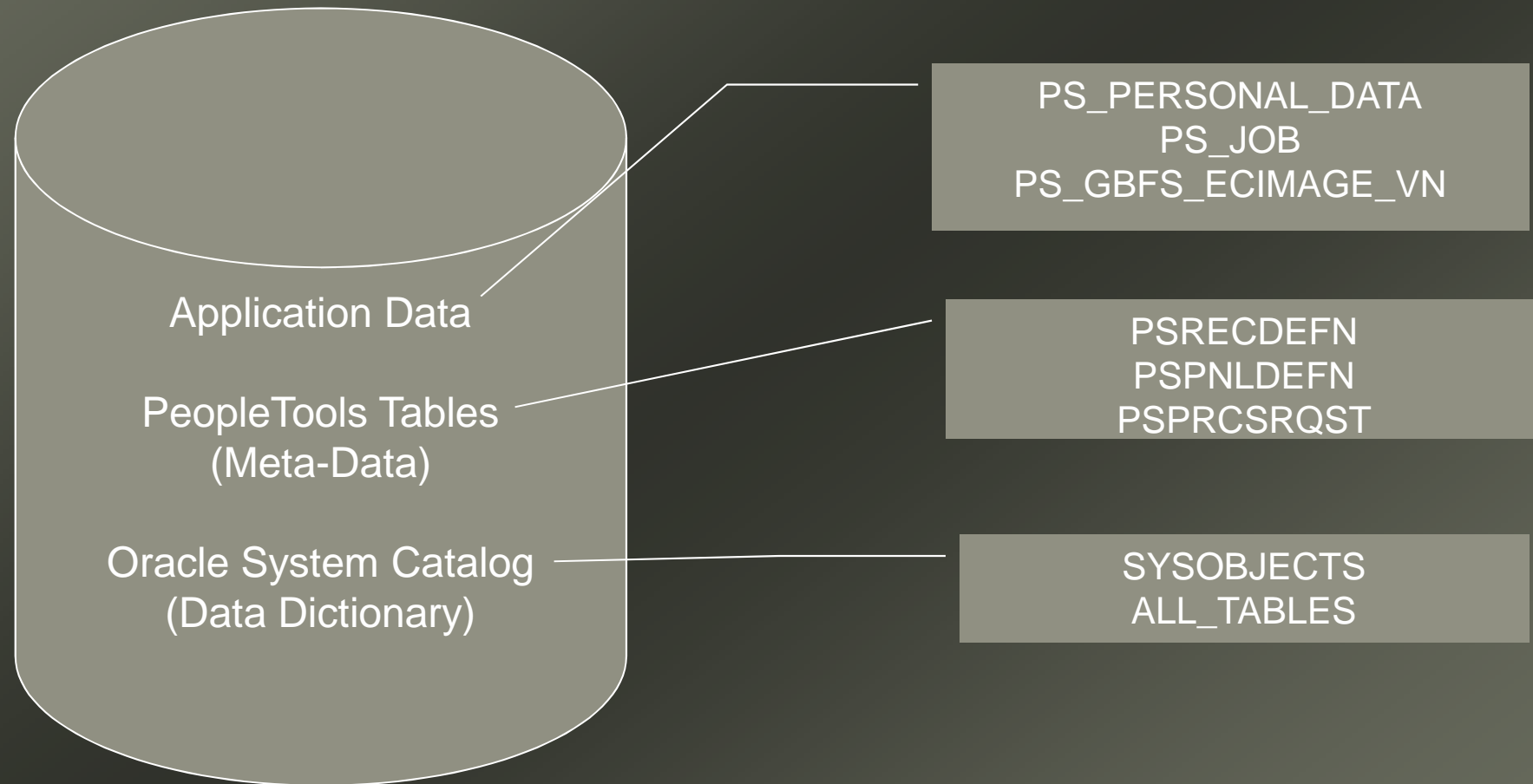


# PeopleSoft Meta-Data & Oracle Data Dictionary

# A PeopleSoft Database



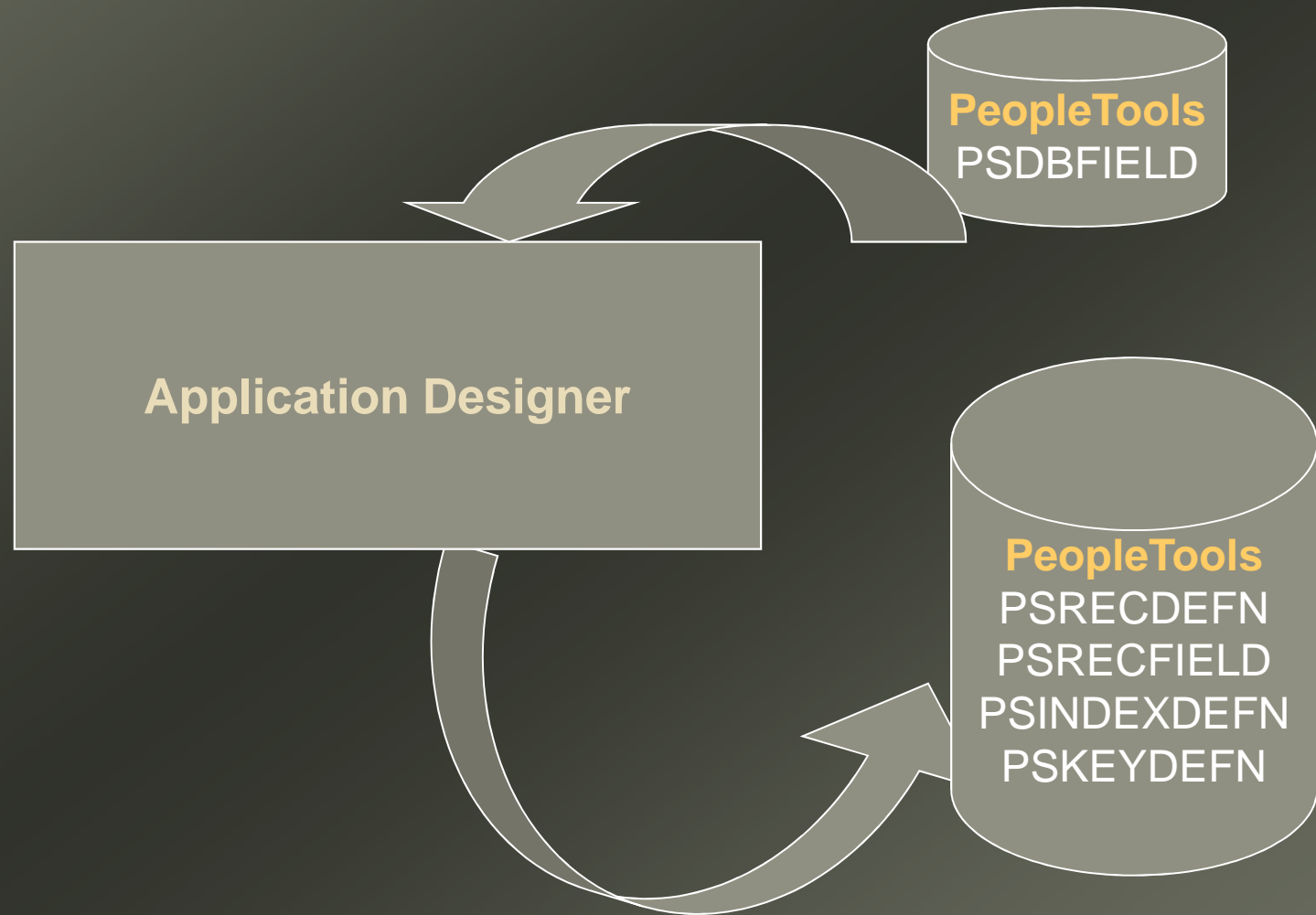
# Meta-data Use – A Familiar Example

The process of

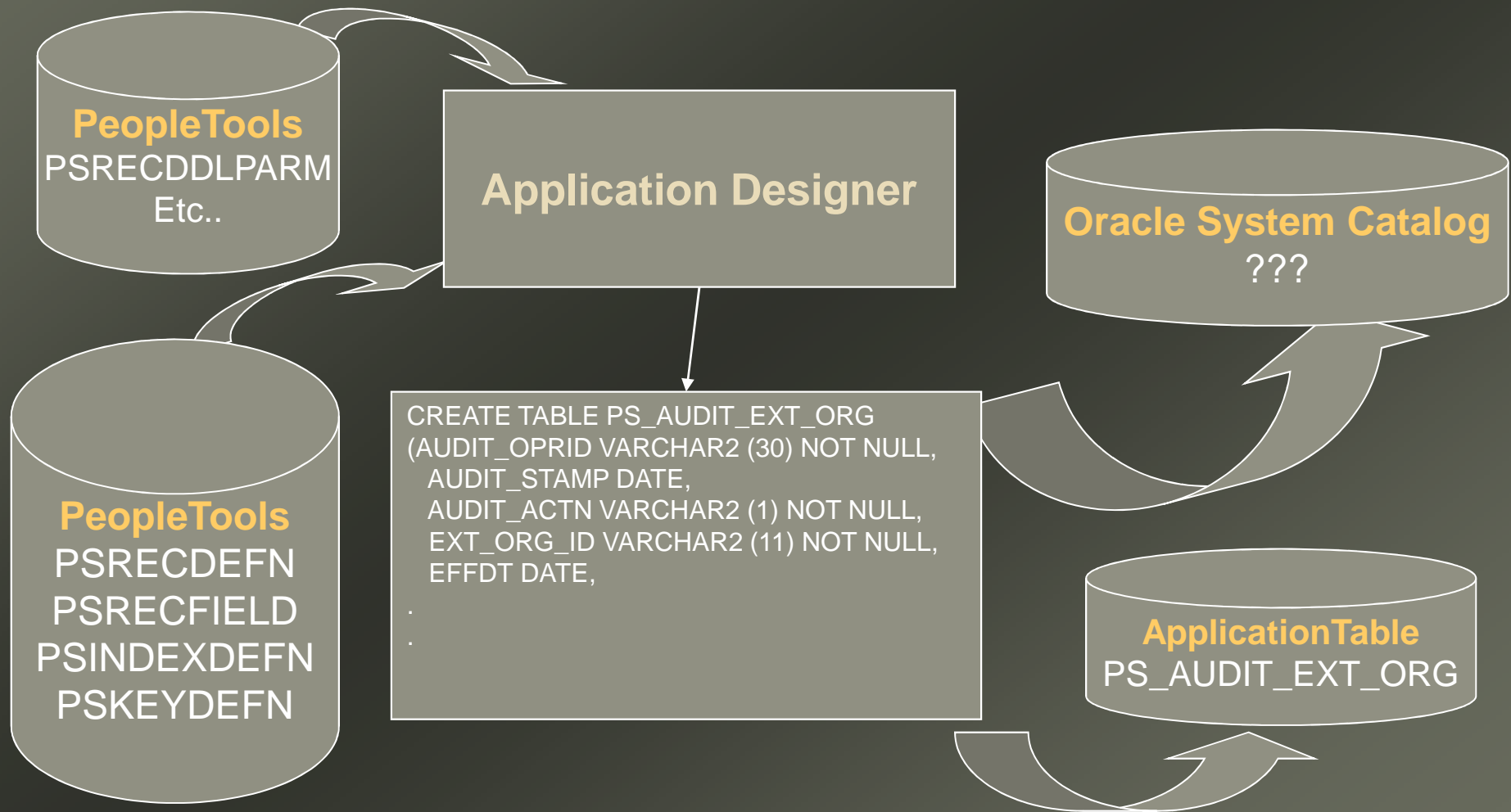
1. Creating records and
2. Building tables

Is a familiar one that can show how meta-data is used

# Creating Records



# Building Tables



# What Meta-Data Describes

- Fields
- Records
  - View
  - Tables
- Pages
- Components
- Menus
- Portal Registry\*
- App Engines, PeopleCode, App Messaging, Queries, Trees, Workflow, and many, many other things!

\*8.4x Only

# Fields

PSDBFIELD	
I1	FIELDNAME
	VERSION
I1	FIELDTYPE
I1	LENGTH
	DECIMALPOS
	FORMAT
	FORMATLENGTH
	IMAGE_FMT
	FORMATFAMILY
	DISPFMTNAME
	DEFCNTRYR
	IMEMODE
	KBLAYOUT
	OBJECTOWNERID
	LASTUPDDTTM
	LASTUPDOPRID
	DESCRLONG

Stores all  
fields in a  
PeopleSoft  
Database

```
CASE FIELDTYPE
  WHEN 0 THEN 'Character'
  WHEN 1 THEN 'Long Character'
  WHEN 2 THEN 'Number'
  WHEN 3 THEN 'Signed Number'
  WHEN 4 THEN 'Date'
  WHEN 5 THEN 'Time'
  WHEN 6 THEN 'DateTime'
  WHEN 8 THEN 'Image'
  WHEN 9 THEN 'Image Reference'
  ELSE TO_CHAR(FIELDTYPE)
END CASE
```

PSDBFLDLABL	
FIELDNAME	LABEL_ID
LONGNAME	SHORTNAME
DEFAULT_LABEL	

Field  
Labels

# Records – Episode I

PSRECDEFN	
15,13,12,11	RECNAME
14,13	FIELD COUNT
	INDEX COUNT
	DDL COUNT
	VERSION
15	AUDIT RECNAME
	RECUSE
	RECTYPE
	SETCNTRLFLD
11	RELANGRECNAME
	RECDESCR
	PARENTRECNAME
	QRYSECRCNAME
12	DDLSPACENAME
	SQLTABLENAME
	BUILDSEQNO
	OBJECTOWNERID
	LASTUPDDTTM
	LASTUPDOPRID
	DESCRLONG

Stores Record Definitions

PSRECFIELD	
11,16	RECNAME
11,16	FIELDNAME
13,12	FIELDNUM
	DEFRECNAME
	DEFFIELDNAME
	CURCTLFIELDNAME
14	EDITTABLE
	USEEDIT
	SUBRECORD
	SUBRECVER
16	SETCNTRLFLD
	DEFGUICONTROL
	LABEL_ID
	LASTUPDDTTM
	LASTUPDOPRID
	TIMEZONEUSE
	TIMEZONEFIELDNAME
	RELTMDTFIELDNAME
	CURRCTLUSE

Defines all of the fields stored for each record



# Records – Episode II

PSRECDEFN	
I5,I3,I2,I1	RECNAME
I4,I3	FIELD COUNT
	INDEX COUNT
	DDL COUNT
	VERSION
	AUDIT REC NAME
I5	REC USE
	REC TYPE
	SET CNTRL FLD
I1	RELLANG REC NAME
	REC DESCR
I1	PARENT REC NAME
I2	QRY SEC REC NAME
	DDL SPACENAME
	SQL TABLE NAME
	BUILD SEQ NO
	OBJECT OWNER ID
	LAST UPD DTTM
	LAST UPD OPR ID
	DESCR LONG

CASE RECTYPE

WHEN 0 THEN 'Table'

WHEN 1 THEN 'View'

WHEN 2 THEN 'Derived'

WHEN 3 THEN 'Sub Record'

WHEN 5 THEN 'Dynamic View'

WHEN 6 THEN 'Query View'

WHEN 7 THEN 'Temporary Table'

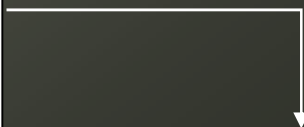
ELSE TO\_CHAR(RECTYPE)

END CASE

# Records – Episode III

PSINDEXDEFN	
	RECNAME INDEXID
	INDEXTYPE UNIQUEFLAG CLUSTERFLAG ACTIVEFLAG CUSTKEYORDER KEYCOUNT DDLCOUNT PLATFORM_SBS PLATFORM_DB2 PLATFORM_ORA PLATFORM_INF PLATFORM_DBX PLATFORM_ALB PLATFORM_SYB PLATFORM_MSS PLATFORM_DB4

Contains 1 row per index defined for a table



PSKEYDEFN	
I1 I1	RECNAME INDEXID FIELDNAME
I1	KEYPOSN ASCDESC

Contains 1 row per key field defined for a index

# Records – Episode IV

## The Dark Side

Records have sub records and that's a problem when you are trying to see what fields are defined for a record. Application Designer is difficult trying to drill down and see all the fields at once and standard SQL isn't any better

# Records – Episode V

## Oracle SQL Extensions Strike Back

You can use an Oracle extension to the SELECT statement that deals with hierarchical data the SELECT...START WITH...CONNECT BY

```
SELECT * FROM PSRECFIELD
WHERE SUBRECORD <> 'Y'
      START WITH RECNAME = 'PERSONAL_DATA'
      CONNECT BY PRIOR FIELDNAME = RECNAME
      AND PRIOR SUBRECORD = 'Y'
```

# **Records – Episode VI**

## **Return of the Empty Slide**

# Pages

PSPNLDEFN	
I2	PNLNAME
I2	LANGUAGE_CD
I3,I2	VERSION
	PNLTYPE
	FIELD COUNT
	GRIDHORZ
	GRIDVERT
	HELPCONTEXTNUM
	PANELTOP
	PANELLEFT
	PANELRIGHT
	PANELBOTTOM
I1	PNLSTYLE
	STYLESHEETNAME
	PNLUSE
	DEFERPROC
	DESCR
	POPUPMENU
	LICENSE_CODE
	LASTUPDDTTM
	LASTUPDOPRID
	OBJECTOWNERID
	DESCRLONG

## Stores page Definitions used in on-line system

[illegible]

## PSPNLFIELD – List all of the items used by each page definition

# Pages

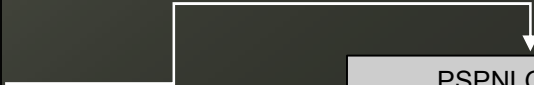
Just like records have sub records, pages have sub pages, so you can use the same START WITH...CONNECT BY here too. (Note FieldType of 11 is a subpage)

```
SELECT * FROM PSPNLDEFN
WHERE PNLNAME IN (SELECT PNLNAME from PSPNLGROUP where
    PNLGRPNAME = 'AV_ASGN_GROUP')
OR   PNLNAME in (SELECT SUBPNLNAME from PSPNLFIELD
    START WITH PNLNAME IN (SELECT PNLNAME FROM
    PSPNLGROUP WHERE PNLGRPNAME = 'AV_ASGN_GROUP')
    AND FIELDTYPE = 11
    CONNECT BY PRIOR SUBPNLNAME = PNLNAME
    AND FIELDTYPE = 11)
```

# Components

PSPNLGRPDEFN	
I1 I1	PNLGRPNAME MARKET
I2,I1	VERSION ACTIONS DESCR ADDSRCHRECNAME SEARCHRECNAME SEARCHPNLNAME LOADLOC SAVELOC DISABLESAVE LASTUPDDTTM LASTUPDOPRID PRIMARYACTION DFLTACTION DFLTSRCHTYPE DEFERPROC EXPENTRYPROC REQSECURESSL INCLNAVIGATION ALLOWACTMODESEL PNLNAVFLAGS TBARBTNS SHOWTBAR ADDLINKMSGSET ADDLINKMSGNUM SRCHLINKMSGSET SRCHLINKMSGNUM SRCHTEXTMSGSET SRCHTEXTMSGNUM DESCRLONG

Stores information about components, their search records & actions



PSPNLGROUP	
I2 I2,I1	PNLGRPNAME MARKET PNLNAME
	SUBITEMNUM ITEMNAME ITEMLABEL FOLDERTABLABEL HIDDEN

Stores information about each page in a component



# Menus

PSMENUDEFN	
I2,I1	MENUNAME
I3,I2	VERSION
I4	MENUGROUP
I1	INSTALLED
	GROUPODER
	MENUORDER
	GROUPSEP
	MENUSEP
	MENULABEL
	MENUTYPE
	DESCR
	LASTUPDDTTM
	LASTUPDOPRID
	DESCRLONG

Stores menu Definitions

PSMENUITEM	
I5,I2,I1	MENUNAME
I5,I4,I2,I1	BARNAME
	ITEMNAME
I4,I3,I2	ITEMNUM
	ITEMTYPE
I5,I3,I6	PNLGRPNAME
I3,I1	MARKET
I4,I2,I1	BARLABEL
I3	ITMLABEL
	XFERCOUNT
	SEARCHRECNAME

Stores information on  
each item of a menu

# Portal Registry

## 8.4x Tools Only

Portal Registry Structure Definition table  
(i.e. Folders and Content References)

PSPRSMDEFN	
I2,I1 I2,I1	PORTAL_NAME PORTAL_REFTYPE PORTAL_OBJNAME
I3 I1 I2 I2 I2	VERSION PORTAL_URL_CHKSUM PORTAL_PRNTOBJNAME PORTAL_SEQ_NUM PORTAL_LABEL
	PORTAL_CNTPRV_NAM PORTAL_CREF_USGT PORTAL_CREF_TMPT PORTAL_CREF_STGT PORTAL_CREF_URLT DESCR254 PORTAL_PRODUCT OPRID PORTAL_EFFDT PORTAL_CREATION_DT PORTAL_EXPIRE_DT PORTAL_TEMPL_NAME PORTAL_STG_NAME PORTAL_ISPUBLIC
I4 I4	PORTAL_LINKOBJNAME PORTAL_LINK_PORTAL LASTUPDOPRID LASTUPDDTTM OBJECTOWNERID
I5 I5 I5 I5	PORTAL_URI_SEG1 PORTAL_URI_SEG2 PORTAL_URI_SEG3 PORTAL_URI_SEG4 PORTAL_URLTEXT

PSPRSMPERM	
	PORTAL_NAME PORTAL_REFTYPE PORTAL_OBJNAME PORTAL_PERMNAME PORTAL_PERMTYPE
	PORTAL_ISCASCAD

Portal Registry  
Structure Permission  
Table

# The Others

There are several hundred other tables that PeopleSoft uses to manage its applications. If you have other specific questions let me know.

Two other custom tables can be used as reference  
PS\_GBSC\_NOMEN\_BU and  
PS\_GBSC\_NOMEN\_MOD contain the abbreviation  
standards we use in our prefixing.

# Meta-data SQL Collection

If you create SQL that uses meta-data or the oracle data dictionary and you find it to be useful send it to Robert Jones or Ginny Richards and we'll add it to a collection of SQL that anyone can download (from the developers web site) and use

Suggested format:

-- Author: rfj0001 Robert Jones 11/15/2004

-- Desc: this SQL will return all fields for a given record definition including fields subrecords

-- Usage notes: change record name in the START WITH clause to the desired name

Select \* from PSRECFIELD

Where SUBRECORD <> 'Y'

Start with RECNAME = 'PERSONAL\_DATA'

Connect by prior fieldname = RECNAME

And PRIOR SUBRECORD = 'Y'