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Revision History Log

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<th>Publication Date</th>
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<tr>
<td>4/30/2008</td>
<td>New version that supports Banner Human Resources 8.0 software.</td>
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Introduction

Course goal

This course is designed to provide an overview of the major tables, reports and processes included in each module of the Human Resources System, as well as providing an introduction to the Banner directory structure. It will prepare technical staff to support Human Resources in the implementation and operations of the Banner Human Resources product.

The course reviews some basic concepts such as naming conventions, use of the data dictionary, and referential integrity.

Hands-on exercises are used to demonstrate the table/form/process relationships.

Course objectives

Participants in this course will be able to

- identify Banner Human Resources forms and tables
- query the Banner HR tables.
- identify tables and fields for data conversion.
- identify tables and fields for migration to the production database.
- follow key HR processes.
- identify and read reports, processes, procedures and scripts in Banner Human Resources

Intended audience

Programmers, DBAs, and analysts who may teach others about Banner tables and processes, perform programming tasks in the Banner environment, facilitate reporting, utilize any of the Banner Human Resources System features, or perform analysis on any Banner Human Resources module.
Prerequisites

To complete this course, you should have

- Completed Banner Fundamentals
- Completed Banner General
- Familiarity with Relational Databases
- SQL Knowledge
- PL/SQL Knowledge
- Oracle Forms Knowledge
Human Resources Objects

Introduction

This section discusses tables, forms and class hierarchies in Banner Human Resources.
Banner Human Resources Objects

Object types

Objects in Banner Human Resources are grouped into several basic types:

- Forms
- Tables
- APIs
- Packages and Procedures
- Reports and Processes
Human Resources Forms

Forms

Users interact with the Banner database through the use of forms. Users enter data into Banner Forms and the data is saved in underlying Oracle tables.

Naming conventions

Banner forms, like all Banner objects, adhere to the Banner objects naming conventions.

- 1st character: defines the Owner / Schema
- 2nd character: defines the Component
- 3rd character: defines the Object type
- 4th to 7th characters: unique identifier, defines the purpose of the object

Form types

There are six types of HR Forms:

- Menu
- Application
- Validation
- Rules
- Query
- Inquiry
Menu forms

Menu forms do not follow the standard Banner object naming convention.

- List all related forms
- Outline the System
- Example: *HRSEMPLOYEE (Employment Administration Menu)
Application Forms

Application forms are actual applications that execute and accept input from users.

- Insert, Delete and Update data
- Invoke APIs
- Query the System
- 3rd character in the name is always an ‘A’
  - Example: PEAEMPL (Employee Form)

Validation Forms

Validation forms allow data entry of all possible values for a given field.

- Supports the List of Values (F9) function
- Table and form names are the same
- Second and third characters are ‘TV’
- Maintains only 3-4 fields:
  - Validation Code
  - Description
  - Activity date fields
- Example: PTVESKL (Employee Skills)

Rule Forms

Rule forms define variables for an application by maintaining the variable codes, descriptions and rules that configure how the system works.

- 2nd and 3rd characters are always ‘TR’
  - Example: PTRECLS (Employee Class)
  - Example: PTRBDCA (Benefits and Deductions)
  - Example: NTRPCLS (Position Class)
Query Forms

Query forms allow users to query data using Query Mode functionality, and to export lists of data in mass.

- 3rd character is a ‘Q’
- Must be called by another form
- Look-up information only
- Information cannot be changed
  - Example: PTQECLS (Employee Class Query Form - called via clicking the Search icon in key block of PTRECLS)

Inquiry Forms

Inquiry forms allow users to query data and perform functions such as mathematical calculations.

- 3rd character is a ‘I’
- Query data and return to another form
- Data cannot be changed
- Form can be accessed from any menu
  - Example: PEIETOT (Employee Year To Date Totals Form)
  - Example: PEIDTOT (Employee Year to Date Deductions Form)
Human Resources Tables

Tables

Banner data is stored in Oracle tables. Users enter data into Banner Forms and the data is saved in underlying Oracle tables.

Banner tables, like all Banner objects, adhere to the Banner object naming conventions.

Naming conventions

Banner forms, like all Banner objects, adhere to the Banner objects naming conventions.

- 1st character: defines the Owner / Schema
- 2nd character: defines the Component
- 3rd character: defines the Object type
- 4th to 7th characters: unique identifier, defines the purpose of the object

Table types

The three basic types of HR tables are:

- Application Tables
  - Base Tables
  - Repeating Tables
  - Temporary Tables
- Validation Tables
- Rules Tables

Application Tables are 'data' tables that hold data about specific positions and people.

Rules and Validation tables are 'configuration' tables. They hold the codes, descriptions, and rules that configure how the system works.
Application Tables: Base Tables

There can be only one occurrence of the logical key.

Example: PEBEMPL (Employee Base Table)
- The logical key is PEBEMPL_PIDM (person identification master)
  - One record for each person (employee)

Example: NBBPOSN (Position Base Table)
- The logical key is NBBPOSN_POSN
  - One record for each position

The API creates a matching History Record to capture changes made to the Base Table data.

Application Tables: Repeating Tables

There can be multiple occurrences of the logical key.

Example: PERLEAV (Leave Balances Repeating Table)
- The logical key is PERLEAV_PIDM
- Multiple records – each employee has a record for each of their leave types

Example: NBRJOBS (Job Assignment Repeating Table)
- The logical key is NBRJOBS_PIDM, NBRJOBS_POSN, NBRJOBS_SUFF
- Multiple records – each person may have multiple job assignments
- Each job assignment may ‘stack’ historical changes to the job, such as Annual Salary Increases using Effective Dates
Application Tables: Temporary Tables

- System-maintained intermediate and internal holding area for Banner reports and processes
- Sometimes referred to as ‘Collector Tables’
- Same naming convention as Application Tables
- Example: PHRTDED

Validation Tables

A validation table and its corresponding form will have the same name.
Invoke FK1 constraints / errors to ensure data integrity in the Banner HR system.

Validation tables have at minimum these three columns:

- `tablename_code`
- `tablename_desc`
- `tablename_activity_date`

Rules Tables

Key column

- `tablename_code`
- Example: PTRECLS_CODE

Description column

- `tablename_desc`
- Example: PTRECLS_SHORT_DESC

Numerous other fields are used to associate data throughout the HR system configuring the Banner HR hierarchy.
Human Resources Hierarchy

Hierarchy

Banner Human Resources uses a hierarchy of classes to ease data entry.

Employees and job assignments are ‘classed’ or ‘grouped’. Data entering these classes will then default other information automatically into the forms and tables.

These classes and groupings are defined in the rules and validation tables.

Diagram 1

- Payroll
  - Leave category, hourly/salary
  - Salary structures, titles
  - Unit of work
  - Employee in a unit of work
  - Spending source(s)
Data defaults

Data defaults down (NOT up) the pyramid.

- Example: A Labor Distribution Override at the Job level will not change the labor distribution at the Budget level.

Data defaults once.

- Example: A Labor Distribution Change on a position budget will NOT change the labor distribution of employees already assigned to that position.
APIs

Introduction

This section lists the APIs used in Banner Human Resources.
Human Resources/Position Control APIs

Introduction

A Banner API is essentially a database package that encapsulates the business logic surrounding a Banner business entity. APIs are PL/SQL packages owned by the Banner ID baninst1.

A Banner business entity is the fundamental unit of information that a Banner application can modify (for example, a course, address, e-mail, and telephone number).

APIs leverage Banner messaging support so that Banner becomes "messaging enabled", i.e., becomes able to stimulate the production of messages based on changes to data they own. Programs within Banner as well as external systems can then manipulate a business entity or table by calling APIs.

The foundation of all Banner APIs is the ability to perform CRUD (create, retrieve, update, and delete) actions on the database. APIs contain the same validation logic and edits that are executed when performing these actions (CRUD) from a Banner Internet-Native form, self-service page, or batch process.

For example, calling the API for the "employee" business entity allows you to:

- Create employee information (insert rows into the Employee table).
- Retrieve data from the Employee table.
- Update employee information (modify rows in the Employee table).
- Delete employee information (physically remove data from the Employee table).
The advantages of using APIs include:

- APIs expose business objects that are useful to users of other applications comprising an institution's digital campus.

- APIs are bi-directional. That is, they support read and write functions.

- APIs ensure consistent edit and validation business logic (create, retrieve, update, and delete).

- APIs eliminate duplicate code that would need to be maintained in each application.

- Oracle and Banner HR security will continue to execute when data is processed through the API, no matter whether the processing source is within Banner or external to it.
Human Resources APIs

Employee API (PB_EMPLOYEE)

The Employee API (PB_EMPLOYEE) is a database package that contains the business logic (validation rules and other related processing) surrounding the table associated with Employee data. The Employee API can be called by programs within Banner (like Forms, C processes, Web packages, etc.) as well as by external systems when there is a need to insert/update/delete information into the Employee table (PEBEMPL).

The API provides for consistent processing and utilizes the same business logic whether a program in Banner calls it or an external system calls it. The table that contains Employee information is PEBEMPL.

The primary form associated with the Employee table is the Employee Form (PEAEMPL). This form retains a number of immediate edits over the data, such as the validations of Employee Class, against the Benefit Category and Leave Category codes. When inconsistent data is detected, the error messages will continue to be displayed at the bottom of the window on the Auto-help line. However, when you save the data and one or more error conditions continue to exist, a new window will open, detailing all error messages. Otherwise, you will not notice any other functional differences from prior versions of Banner Human Resources.
Other Human Resources forms and processes affect data associated with the employee table, and these have been modified to process through the Employee API. These include:

- Person Identification (Biographical Info) Form (PPAIDEN)
- New Hire Form (PEAHIRE) - This form creates Employee table data and validates using the Employee API;
- One-time Payment Form (PEA1PAY) - This form processes quick payments for employees and also impacts the Employee table (PEBEMPL);
- Employee Status Change Form (PEAESCH) - This form updates the Employee table with Leave or Termination data;
- Termination Verification Form (PEATMVF) - This form is designed to review employee records where there has been a Termination Date and Termination Reason established on PEAEMPL, but the Employee Status has not been set to 'Terminated'.
- Pay Period Update Process (PHPUPDT) - This process is the final payroll program that may affect employee records where the Employee Status is changed because Leave or Termination Dates have been future effective-dated consistent with the payroll.
- Electronic Approvals, EPAF package (NOKPLIB) - Since employee records can be created or updated through the use of EPAF, this package was modified to call the Employee API.

Please refer to the API Reference Guide for documentation related to all edits associated with the Employee API.

The PB_EMPLOYEE package provides the common business interface for the Employee API. The Employee API establishes information about an employee's terms of employment.

The following table provides a brief overview of the Employee API package. For more details, refer to the HR API Reference Guide.

<table>
<thead>
<tr>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Associated API Packages</th>
<th>Associated scripts</th>
<th>Associated Table</th>
<th>Affected Objects (Forms, Processes, etc.)</th>
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<td>pokb_employee_s1.sql</td>
<td></td>
<td>NOKPLIB</td>
</tr>
</tbody>
</table>
Important API Notes

Employee History Table Enhancement

Several tables are affected by the Employee API:

- PEBEMPL
- PEREHIS
- PDRBENE
- PERLEAV
- PERLHIS

The Employee History table (PEREHIS) has been expanded to include all data items associated with the Employee table (PEBEMPL). Therefore, any insert or change to any existing field on the Employee Form (PEAEMPL) will result in an audit record being posted to the Employee History table, on a going-forward basis. No changes were made to the Employee History Form (PEIEHIS) to display these new items. However, the audited elements are present on the table.
Payroll Processing Notes

An Employee table update function in the Pay Period Update Process (PHPUPDT) was modified to also utilize the Employee API. This API is called when the process determines that the Employee Status should be updated to reflect that the employee on Leave or Terminated. Through this evaluation, the Start and End Dates are evaluated against the job record in order to determine whether this update should occur.

For example, on December 1st, you indicate that the job is to go on Leave on December 31st and re-activates the job on March 1st. Next, in order to indicate the Leave information on the Employee record you enter that the Leave Start Date is January 1st and the Expected Return Date is February 28th. During the month-end payroll, since all records are in synch, the Pay Period Update Process (PHPUPDT) changes the Employee Status to Leave.

There is a situation within Leave and Termination processing where the Pay Period Update Process (PHPUPDT) may error, the employee will not be updated and the process will stop. This will affect the finalization of the payroll. This situation involves records where you have further modified the job status and dates without reviewing the Employee record controls. Following the above example, if the job record has been reactivated on January 15th and is extracted and attempted to be paid, the Pay Period Update Process (PHPUPDT) will error out because the employee Leave dates are inconsistent with the job dates.

In order to ensure that the Pay Period Update Process (PHPUPDT) does not error and terminate, an edit has been placed in the Pay Period Proof Process (PHPPROF). If the job dates and status are not consistent with the employee record criteria, either on the Leave or Termination windows, the employee will receive an error in the payroll and the disposition will be set to '05'. The employee must be deleted in the payroll, their records must be corrected on the Employee Form (PEAEMPL), and they must be re-extracted through the Time Processing Report (PHPTIME) to be paid.

Security

It is important to note that Oracle and Banner HR security will continue to execute when data is processed through the API against the employee table, whether the processing source is within Banner or external to it.
APIs used in Banner Human Resources

BPIs

Three BPIs exist to maintain job assignment data. These BPIs call the job related APIs and must be invoked in lieu of calling APIs directly to maintain job assignment data integrity.

- Job Labor BPI
- Job Assignment BPI
- Job Earnings BPI

Additional information on APIs used in Biographic/Demographic Information, Student Employee FICA and Position Control follows.
The following table provides a brief overview of the Biographic/Demographic APIs. For more details, refer to the Banner Human Resources API Reference Guide, Release 7.2. These APIs replace the code in the corresponding Banner form.

All APIs packages used in Banner Human Resources will begin with a ‘p,’ followed by an ‘b,’ and an underscore ‘_,’ followed by a verb/noun describing what the API does. If the 2nd letter is a ‘p’ instead of a ‘b,’ then that database package is a Business Process API defining a ‘unit of work’.

<table>
<thead>
<tr>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Associated API Packages</th>
<th>Associated scripts</th>
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Student-Employee FICA APIs

The following table provides a brief overview of the student FICA APIs. For more details, refer to the Banner Human Resources API Reference Guide, Release 7.2. These APIs replace the code in the corresponding Banner Human Resources forms.

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<thead>
<tr>
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Position Control APIs

Electronic Approvals APIs

The following table provides a brief overview of the APIs for Electronic Approvals. For more details, refer to the Position Control API Reference Guide.

<table>
<thead>
<tr>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Associated API Packages</th>
<th>Associated scripts</th>
<th>Associate Objects (Forms, Processes, etc.)</th>
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<td>NTRAGID NTRAGRP NOAOGRP</td>
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</tbody>
</table>
Jobs Information APIs

Four APIs have been created for the following tables associated with the Employee Jobs Form (NBAJOBS), namely:

- The Base Job API contains the business logic for processing base job data (NBRBJOB) on the Employee Jobs Form (NBAJOBS).
- The Job Detail API contains the business logic for processing job detail data (NBRJOBS) on the Employee Jobs Form (NBAJOBS).
- The Job Earnings API contains the business logic for processing job default earnings data (NBREARN) on the Employee Jobs Form (NBAJOBS).
- The Job Labor Distribution API contains the business logic for processing job labor distribution data (NBRJLBD) on the Employee Jobs Form (NBAJOBS).

Three BPIs have been created to maintain the employee jobs information. Each BPI, in turn, invokes one or more of the new APIs.

Note: It is important to note that the APIs alone cannot be used to maintain the jobs data. Applications must invoke the BPIs to ensure data integrity.

The new BPIs are:

- Job Labor BPI
- Job Assignment BPI
- Job Earnings BPI
The following table provides a brief overview of the Jobs APIs associated with the Employee Jobs Form (NBAJOBS). For more details, refer to the Position Control API Reference Guide, Release 7.3.

<table>
<thead>
<tr>
<th>API Object Name</th>
<th>API Entity</th>
<th>Associated API Packages</th>
<th>Associated scripts</th>
<th>Associated Table</th>
<th>Affected Objects (Forms, Processes, etc.)</th>
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</table>
Business Process Interface (BPIs) Packages

Three BPIs have been created to maintain the employee jobs information. Each BPI, in turn, invokes one or more of the Jobs APIs. It is important to note that the APIs alone cannot be used to maintain the jobs data. Applications must invoke the BPIs to ensure data integrity.

The following table provides a brief overview of the Jobs APIs associated with the Employee Jobs Form (NBAJOBS). For more details, refer to the Position Control API Reference Guide, Release 7.3.

<table>
<thead>
<tr>
<th>BPI Object Name</th>
<th>BPI Entity Name</th>
<th>Associated BPI Package</th>
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</table>
The following table provides a brief overview of the APIs for combined deduction limits, which are new to Banner 8.0. For more details, refer to the *Banner 8 Human Resources Release Guide*.

<table>
<thead>
<tr>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Associated API Packages</th>
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</table>
Exercise 1: APIs

Directions

Use the information you have learned in this workbook to complete this self check activity.

Exercise

1. What is the name of the Procedure in PB_EMPLOYEE that inserts a new record into PEBEMPL?

2. What fields are different between the p_create and p_update in NB_JOB_BASE?

3. What does PEKEMPL do?
Human Resources Components

Introduction

This section provides details on the modules that make up the Banner Human Resources system.
Introduction to Human Resources Components

Introduction

Components within the Banner Human Resources system are logical groupings of data of a fully integrated HR/Payroll system. The titles relate directly to the way the HR menus break down.
Core components

Core Banner Human Resources components include:

- Biographic/Demographic Information *HRSPERSON
- Employment Administration *HRSEMPLOYEE
- Compensation Administration *HRSCOMP
- Benefit/Deductions Administration *HRSBENEFIT
- Position Management *HRSPOSITION
- Personnel Services Budget *HRSPSBUDGET
- Human Resources Administration *HRSADMIN
- Security Set up *HRSSECUR

Optional components

Some of these latter components are not critical to the payroll process, but remain useful functionality.

- Applicant Tracking *HRSAPPLCNT
- Electronic Approvals (EPAF) *HRSELECAPP
- Employee Relations Administration *HRSLABOR
- Health and Safety Administration *HRSHEALTH
- Committee / Service *HRSCOMMITTEE
Biographic – Demographic

Biographic/ Demographic Information

The core of the Biographic and Demographic Information is the Identification Form (PPAIDEN), which establishes a unique ID number for each individual in the system. Use this form to enter basic biographic information about an applicant or employee.

- Maintain:
  - Biographic information
  - Educational background
  - Professional qualifications

- Shared table data owned by SATURN and the Banner General module

- Some fields are REQUIRED to create Employee records
HR Required Fields – SPBPERS

- SPBPERS_SSN
- SPBPERS_BIRTH_DATE
- SPBPERS_CITZ_CODE
- SPBPERS_ETHN_CODE
- SPBPERS_SEX

HR Required Fields – SPRADDR

An employee must have at least one active address record for the address type(s) designated for payroll.

- SPRADDR_PIDM
- SPRADDR_ATYP_CODE
- SPRADDR_SEQ_NO
- SPRADDR_STREET_LINE1
- SPRADDR_CITY
- SPRADDR_STAT_CODE
- SPRADDR_ZIP
Core Application Forms

- PPAIDEN
  - Establishes a unique identifier PIDM
  - Maintains biographic and demographic information

- PPAGENL
  - Maintains professional qualifications

- GXADIRD
  - Maintains direct deposit information

- GOAINTL
  - Maintains international data
Rule Forms

- PTRCERT
  - Certification Code

Validation Forms

- STVATYP
  - Address Type Code
- STVCITZ
  - Citizen Type Code
- STVETHN
  - Ethnic Code
- STVSBGI
  - College Codes

Diagram
Person records

- Each person will have a SPRIDEN record with a SPRIDEN_CHANGE_IND of null
- Other SPRIDEN records for the person will have a value in the change_ind indicating the type of change (N)ame or (I)D
- Each person must have one SPBPERS record with the (5) required elements
- Each person must have one SPRADDR record
Employment Administration

Purpose

The Employment Administration module supports the entering and reporting of employee information.

- Maintain:
  - Employee’s status
  - Hire dates
  - Benefit category (BCAT)
  - Leave category (LCAT)
  - Home Department (validates against Banner Finance)

Core Application Forms

- **PEAEMPL**
  Establishes employee information, status, benefit and leave categories

- **PEAREVW**
  Maintain performance review information

- **PEALEAV**
  View and maintain leave balance records (IF leave by employee method chosen on PTRINST – populated by PEAEMPL)
Rule Forms

- PTRLCAT
  Leave Categories
- PTRECLS
  Employee Class
- PTRTREA
  Termination Reason

Validation Forms

- FTVCOAS
  Chart of Accounts
- FTVORGN
  Organization Codes
Person records

- A row in PEBEMPL defines a person as an employee
- Each employee will have one PEBEMPL record
- A history of changes made to PEBEMPL through PEAMPLE is stored in PEREHIS
- Must have required Bio-Demo data first
- Much of the required data for the employee record defaults from the HR Hierarchy (Rules and Validation Tables)
- Other required fields are defaulted by the form PEAEMPL, but most can be overridden
HR Required Fields – PEBEMPL

- PEBEMPL_PIDM
- PEBEMPL_EMPL_STATUS
- PEBEMPL_COAS_CODE_HOME
- PEBEMPL_ORGN_CODE_HOME
- PEBEMPL_COAS_CODE_DIST
- PEBEMPL_ORGN_CODE_DIST
- PEBEMPL_ECLS_CODE
- PEBEMPL_LCAT_CODE
- PEBEMPL_BCAT_CODE
- PEBEMPL_FIRST_HIRE_DATE
- PEBEMPL_CURRENT_HIRE_DATE
- PEBEMPL_ADJ_SERVICE_DATE
- PEBEMPL_SENIORITY_DATE
- PEBEMPL_FLSA_IND
- PEBEMPL_INTERNAL_FT_PT_IND
Position Management

Purpose

Position Management is the Human Resources System module that monitors and maintains position history and incumbent history.

- Define positions
- Assign positions to budgets
- Assign positions to labor distribution
- Maintain position history

Core Application forms

- NBAPOSN
  Defines all positions within a position classification and fiscal year
- NBAPBUD
  Assign positions to budgets and FOAPAL
- NBAFISC
  Maintain current fiscal year

Rule forms

- NTRPCLS
  Position Class
- NTRSALA
  Salary rate
- NTRSGRP
  Salary Group
Validation Forms

- **FTVORGN**
  Organization
- **FTVCOAS**
  Chart of Accounts

**Diagram**

**Position records**

- One record in NBBPOSN for each position
- At least one NBRPTOT record for each position/fiscal year combination
- At least one NBRJLBD record for each position/fiscal year combination
Exercise 2 – Query Position Control Tables

Directions

Use the information you have learned in this workbook to complete this self check activity.

Exercise

1. Retrieve all active positions for fiscal year 1995 with labor distribution accounts (fund, organization, account and program), budget amount and percentage split. Order by position.

2. Accepting the parameter of fiscal year (fisc_code), retrieve each position and the total budget allocated for it.

3. Retrieve all Active positions that do not have active budgets.
Compensation Administration

Purpose

Defaults come from HR hierarchy.

- Maintain:
  - Employee’s Title
  - Employee’s Salary
  - Compensation History

Forms

- NBAJOBS
  Defines the job for a particular employee with begin and end dates, title, status, labor distribution, and salary information

- PEIJHIS
  Employee Job History Form

- PEALEAV
  View and maintain leave balance records (IF leave by job method chosen on PTRINST – populated by NBAJOBS)
Position/employee records

- One record in NBRBJOB for each position/employee combination
- At least one record in NBRJOBS for each position/employee combination
  - NBRJOBS_EFFECTIVE_DATE = NBRBJOB_BEGIN_DATE
- Additional records for subsequent changes to job information
  - Example: Salary, Title

Position/fiscal year/employee records

- At least one NBRJLBD record for each position/fiscal year/employee combination
  - Defaults from NBRPLBD, but can be overridden
- Records in NBREARN are defaulted depending on ECLS set up. It can be overridden

Requirements

- The person must have an active employee record to have an active job.
- Active position and budget records must exist
- Values default from Rule and Validation tables, which can be overridden
Effective Dating

Purpose

The ‘interior’ of Banner HR is structured based on the concept of ‘Effective Dating’.

- Maintains history
- Allows for future dated personnel actions

Records are ‘stacked’ in the Oracle tables using the logical key, which includes the Effective Date.

Example

```sql
select nbrjobs_pidm, nbrjobs_posn, nbrjobs_suff,
       nbrjobs_effective_date, nbrjobs_desc,
       nbrjobs_status
from nbrjobs
where nbrjobs_pidm = 408
order by nbrjobs_effective_date;
```

408 S00001 00 31-AUG-96 Federal Work Study (Pooled)    A
408 S00001 00 30-SEP-96 History Dept. Office Clerk-CWS A
408 S00001 00 11-MAY-97 History Dept. Office Clerk-CWS T
408 S00001 00 31-AUG-97 History Dept. Office Clerk-CWS A
Example 1

What job record is active as of today?

```sql
select max(nbrjobs_effective_date)
from nbrjobs
where nbrjobs_effective_date <= SYSDATE
  and nbrjobs_pidm = 408;
```

31-AUG-97

Example 2

What job record is active as of Jan. 1, 2011?

```sql
select max(nbrjobs_effective_date)
from nbrjobs
where trunc(nbrjobs_effective_date) <= '01-JAN-11'
  and nbrjobs_pidm = 408;
```

31-AUG-97
A Nested Select

```sql
SELECT nbrjobs_pidm, nbrjobs_posn, nbrjobs_suff, 
       nbrjobs_desc, nbrjobs_status
FROM nbrjobs a 
WHERE nbrjobs_pidm = 408 
AND a.nbrjobs_status = 'A' 
AND a.nbrjobs_effective_date = 

(SELECT max(nbrjobs_effective_date) 
  FROM nbrjobs b 
  WHERE trunc(nbrjobs_effective_date) <= '01-OCT-96' 
      AND b.nbrjobs_pidm = a.nbrjobs_pidm 
      AND b.nbrjobs_posn = a.nbrjobs_posn 
      AND b.nbrjobs_suff = a.nbrjobs_suff);
```

408 S00001 00 30-SEP-96 History Dept. Office Clerk-CWS A

HR tables

Some HR tables with effective dating logic:

- NBREARN
- NBRJLBD
- NBRJOBS
- PDRDEDN
Exercise 3: Effective Dating

Directions

Use the information you have learned in this workbook to complete this self check activity.

Exercise 3

1. What is the effective date of the job record that is active as of today, for Lawrence Mitchell?

2. Is that job active as of today?

3. What was the effective date of the same job that is active as of June 1, 1994?

4. What is the annual salary of the job record for Lawrence Mitchell as of June 1, 1994?

5. List name, position number, suffix, and annual salary as of Oct. 23, 1996 for all employees with active jobs, in alphabetical order by last then first name.
Benefits and Deductions

Purpose

- Maintain Employee's benefits and deductions
- Eligibility administration
- Maintain Beneficiary/Dependent Information

Core Application Forms

- PDADEDN
  Establish/Maintain deductions for benefits, taxes and other withholdings
- PDABENE
  Beneficiary Form
- PDABCOV
  Beneficiary coverage Form

Rule Forms

- PTRBCAT
  Benefit Category
- PTRBDCA
  Benefit/Deduction Code
- PDABDSU
  Benefit/Deduction Setup
Deduction/ employee records

- One record in PDRBDED for each deduction/employee combination
- At least one record in PDRDEDN for each deduction/employee combination
  - PDRDEDN_EFFECTIVE_DATE = PDRBDED_BEGIN_DATE
- Additional records for subsequent changes to deduction must have a different effective date and potentially a different status, ie: future termination record
  - Example: Plans, options, amounts history tracking for mid-year go live

Requirements

- Must be an active employee to set up deductions.
- Eligibility is driven by benefit categories (BCAT) in PTRBCAT.
- 'Self' beneficiary records are created when employee record is created with PEAEMPL
Establishing Combined Deduction Limits

Banner Human Resources provided the ability to check and ensure that combinations of employee and employer contributions towards employee retirement plans were within the elective deferral maximum limit set by the IRS. This functionality has now been extended to check for the employee’s

- Annual contribution limit
- Annual compensation limit
- Catch-up contributions
- 15-year rule plan.

Application forms

- PTRBDCL
  Specify annual dollar limits for combinations of employee retirement plans, 50+ catch-up contributions, and the 15-year rule plan.

Altered forms

New fields related to establishing combined deduction limits have been added to:

- PTRBDCA
- PDADEDN
- PEIDHIS
- PTRBDMC

For more details on this enhancement, please refer to the *Banner 8 Human Resources Release Guide*. 
Leave Administration

Purpose

- Leave can be tracked by employee or by job.
- PTRINST defines numerous Leave processing rules:
  - Leave Processing Method: By Employee vs. By Job
  - Leave Processing Order: Accrue Then Take vs. Take Then Accrue
  - Leave Balance Roll Order: Before / After Accrual
- Different set of leave tables for employee or job tracking

Leave by Employee

PEAEMPL – Leave balance records are created in PERLEAV for those leave types for which their leave category (LCAT) on PEAEMPL dictates

Leave by Job

NBAJOBS – Leave balance records are created in PERJLEV for those leave types for which their leave category (LCAT) on NBAJOBS dictates

Forms

- PEALEAV – View, track, and update balances for each leave code
- PEILHIS – View leave balance history
- PHIACCR – View leave accrual history
Human Resources Administration

Administration

- Identifies Rule and Validation forms for Banner Human Resources
- ‘Do Not Touch’ System Required Tables
  - Tax tables, EEO reporting values, Etc
  - Usually Federally Mandated Codes
  - See: Banner Human Resources TRM Supplement
- Functional Team uses Checklists to determine which forms / tables will be populated with client-specific values
Banner New Hire Process

PPAIDEN form loads tables

- SPRIDEN     PIDM, ID, Name…
- SPRADDR     Address
- SPBPERS     Birthdate, SSN, Ethnicity…
- SPRTELE     Telephone
- SPREMRG     Emergency Contact

PEAEMPL form loads tables

- PEBEMPL     Employee Status, Hire Dates, Employee Classification, …
- PERLEAV     Leave Balances (if using Leave by Employee)
- PEREHIS     Employee History
- PDRBENE     Beneficiary / Dependent

NBAJOBS form loads tables

- NBRBJOB     Position Number, Job Begin and End Date
- NBRJOBS     Position Number, Effective Date, Title, Salary
- NBREARN     Default Earnings Code, Default Hours
- PERJHIS     Job History
- PERJLEV     Leave Balances (if using Leave by Job)
PDADEDN form loads tables

- PDRBDED  Deduction Code (BDCA), Deduction Begin Date, End Date
- PDRDEDN  Deduction Code (BDCA), Effective Date, Deduction Plan, Deduction Amounts
- PERDHHIS  Deduction History

New Hire Quick Set Up

- PEAHIRE  Allows you to move through a series of steps that will load tables behind PPAIDEN, PEAEMPL and NBAJOBS
  Initial Set Up only
- PDABDSU  Loads the tables behind PDADEDN
  Initial Set Up only
Exercise 4 – Enter a New Employee into Banner

Directions

Use the information you have learned in this workbook to complete this self check activity.

Exercise

1. Log into Banner INB (TRNG), and enter PPAIDEN - the Identification Form.

2. Enter a new person into the System.

3. Identify the tables behind the form. What tables did you inset records into?

4. Make the new person an employee. What tables were records created in?

5. Give the new person a job. What tables were records created in?

6. Assign the person benefits. What tables were records created in?
Human Resources Security

Security

- In addition to BANSECR Class Security
- If ANY security types are check marked on PTRINST, HR users must be defined in PTRUSER
- Provides Row Level security for HR data
- Additionally, manages security access for SSB
  - Salary Planner
  - Faculty Load and Compensation
  - Benefits Administration
  - Time Entry Approvals
  - Leave Report Approvals
  - Effort Certification and Labor Redistributions
- If MASTER levels are not check marked on PTRUSER, values are established on subsequent forms

Four types of security limitations

- Employer
- Organization
- Employee Class
- Salary Level

The types can be used in any combination.
Application Forms

- PTRINST - Installation Rule Form
  Turn on Security
- PTRUSER - User Codes Rule Form
  Set up HR Users
- PSAEMPR - Banner EMPR Security Form
  Set up Employer Security
- PSAORGN - Banner ORGN Security Form
  Set up Organization Security
- PSAECLS - Banner ELCS Security Form
  Set up Employee Class Security

Tables

- PTRUSER - User Codes Rule Form
  Establishes IDs for security purposes
- PSREMPR - Banner EMPR Security Form
  Defines Employer codes that users can view
- PSRORGN - Banner ORGN Security Form
  Allows access to a range or ORGN codes
- PSRECLS - Banner ELCS Security Form
  Allows access to individual ECLS codes
Load Order

Introduction

This section discusses the load order for Banner Human Resources components.
Load Order

Module components

All Banner modules are comprised of two parts:

- Rule and Validation Tables
  - Must be populated first
- Module-Specific or ‘PIDM related’ data
  - Populated with the Converter Toolkit
  - Populated with spreadsheets
  - Manually populated
Load Order – HR Core Tables

Diagram
Human Resources / Banner System Interfaces

Introduction

This section discusses the touch points between the Banner Human Resources system and other Banner systems.
Interfaces and Integration with Other Banner Systems

Interfaces

- Advancement Interface
- Finance Interface
- Financial Aid Integration
- Student Integration

Information resources

- Technical Reference Manual Supplement (TRM)
- Banner HR User Guide: Interfaces
Advancement Interface

Advancement processing

- Advancement / Development first feeds pledges to Banner Human Resources
- Banner Human Resources feeds the deductions back in order to create the gift / installment payment records
Finance Interface

Finance processing

- Provides an automated flow of payroll expenditure, encumbrance, budget, and COBRA payment information from Human Resources to Finance

- A generic feed table, GURFEED, stores the data to be interfaced.
Financial Aid Integration

Financial Aid processing

- RJRLOAD updates Financial Aid System with actual payroll earnings
- Extracts data directly from Payroll History tables
Student Integration

Student processing

- PHPSHRS: Verification of Student Hours
  - process checks, compares, and corrects the deduction status of student-employees based on the credit hours they have enrolled during a term.
  - checks the current deduction status for each Employee Class / Deduction code combination defined on PTRSTDE
  - Corrects any discrepant records by creating a new Effective Dated deduction record in PDADEDN when appropriate

- Faculty Load and Compensation (FLAC)
  - Automated Calculation of Compensation for Faculty Assignments
  - Provide Access to information through Self Service Components
  - Provide Faculty Oriented View of Compensation Details and contract information
Payroll Process

Introduction

This section discusses the many steps involved in the Payroll Process in Banner Human Resources.
Key Concepts

Keys

- Pay Year
- Pay ID (pict code)
- Pay No

Dispositions

- Status identifiers
- Every employee is assigned a disposition at every step of the Payroll process, tracked by PHRHIST and PHRJOBS
- Hard-coded into the payroll processes, so that only records ready for the next step are included
Original Payroll dispositions

- 05 Awaiting Re-Extract
- 10 Awaiting Time Entry
- 15 Awaiting Correction
- 20 Awaiting Proof
- 22 Hours Correction
- 25 Awaiting Leave Process
- 30 Awaiting Calc
- 40 Awaiting Document
- 42 Awaiting Check/Direct Deposit Run
- 43 Awaiting Direct Deposit Run
- 44 Awaiting Check Run
- 50 Awaiting Update
- 60 Finance Extract
- 70 Complete
Adjustment Pay Event Dispositions

- 27 Pre-Balance Calc
- 28 Pre-Approve Calc (preparing to calc trial register)
- 30 Awaiting Calc
- 37 Pre-Balance Check
- 38 Pre-Approve Check (preparing to cut checks)
- 40 Awaiting Document
- 42 Awaiting Check/Direct Deposit Run
- 43 Awaiting Direct Deposit Run
- 44 Awaiting Check Run
- 47 Pre-Balance Update
- 48 Pre-Approve Update (preparing to run HR system update)
- 50 Awaiting Update
- 60 Finance Extract
- 62 Finance Interface/Feed
- 70 Complete
Payroll cycle errors

- Can be fixed as they appear, or

- Print the disposition report, continue with the other employees, then return to correct the error record
  - Online Form: PHIDERR – Form to view payroll errors
  - Reports:
    - PHRDERR – Payroll Errors report
    - PHRDCON – Disposition report
Pre-Payroll Process

Optional processes

PDPLIFE – Life Insurance Calculations

- Calculates new rates based on rules in PTRLIFE
- Calculates Imputed Income

NOPEAMA – Electronic Approvals Mass Apply Process

- Applies all Electronic Approval transactions entered from the Electronic Personnel Action Form (NOEPAF)
Banner Payroll Process

PHPTIME

PHPTIME - Time Sheet Generation

- Initializes Payroll History tables
- Initializes disposition at 05 (Awaiting Re-extract), 10 (Awaiting Time Entry), or 20 (Awaiting Proof)
- Open the payroll process for time entry

Tables 'initialized' by PHPTIME

- Insert into PHRHIST: Pay History Repeating Table
- Insert into PHRJOBS: Pay History Jobs Repeating Table
- Insert into PHREARN: Pay History Earnings Repeating Table
- Insert into PHRHOURL: Hour Validation Table
- Insert into PHRELBD: Pay History L/D Override Repeating Table
- Insert into PHRDEDN: Pay History Deduction Repeating Table
- Insert into PHRERRL: Pay History Error Log Repeating Table
Time entry forms

- **PHAHOUR** – Online Time Entry
  - Directly updates the PHR% tables
  - Allows for data entry of Exception hours
  - Allows for adjustments to default timesheet information

- **PHATIME** – Time Entry with Approvals
  - Requires set up of users and routing queues
  - *Updates to PHR% tables once transaction successfully completes the routing queue*

- **PHAMTIM** – Mass time entry
  - Uses temporary table PHRMTIM
  - *Updates to PHR% tables after successful completion of PHPMTIM process to ‘pull’ hours into the payroll process*
PHPPROF

PHPPROF - Pay Period Proof Batch Process

• Validates Payroll entries
• Special rate must be entered for earn code
• PHREARN_HRS should not be 0 or NULL
• Possible insufficient leave balance
• Employee has another job at a different disposition
• Employee's total hours do not match hrs breakdown
• 'INVALID LOA END DATE'
• Manages Combined Limit Rule Codes
• Etc.

• Incoming Disposition is 20
• Outgoing Disposition is 25 (success)
  ▪ 15 or 22 (failure)

• Tables Processed by PHPPROF
  ▪ Update PHRHIST - Payroll History table
  ▪ Update PHRJOBS - Payroll History Jobs table
  ▪ Update PHRERRRL with errors - Pay History Error Log table
PHPLEAV

PHPLEAV - Leave Accruals and Taken Process

- Applies rules from PTRINST
- Tracks Leave Accrued / Taken in PHRACCR

- Incoming Disposition is 20
- Outgoing Disposition is 25 (success)

Tables referenced by PHPLEAV

- PERLEAV - Leave Balances
- PERJLEV - Employee Leave Balances by Jobs
- PTRLEAV - Leave Code Rule Form
- PTRLVAS - Leave Assignment Rule Form
- PTRLVAC - Leave Accrual Rule Table
- PTRLVPR - Leave Priority Code table

Tables processed by PHPLEAV

- PHRHIST – Update Disposition to 30
- PHRJOBS – Update Disposition to 30
- PHREARN – Insert any Dock Pay Records
- PHRERRL – Insert any Errors/Warnings
- PHRACCR/PHRJACR – Insert leave Accrual Records
PHPCALC

PHPCALC - Payroll Calculation Report

- Gross to net Payroll calculation process (COBOL)
  - Calculates earnings by hours
  - Calculates Benefit / Deduction Amounts
  - Can be ran numerous times
    - Re-Calculate All Employees

- Incoming Disposition 30

- Outgoing Disposition 40 (when success)

- Updates PHRDEDN - Deduction Calculation Report
  - Calculated Deduction amounts

- Updates PHREARN - Payroll Earnings Report
  - Calculated Earnings amounts

- Updates PHRJOBS - Payroll Jobs Report
  - Updates Disposition to 40

- Updates PHRHIRS - Payroll History Report
  - Updates Disposition to 40 and records Gross and Net amounts

- Generates PHRHOURL - Payroll Time Entry Report
  - With calculated earnings amounts by Data Entry period

- Updates PHRACCR - Payroll History Accruals Report
  - Accrual amounts (if applicable)
PHPDOCM

PHPDOCM - Check/Direct Deposit Amount Calculation

- Creates Check and Direct Deposit Document Records
  - PHRDOCM
- Calculates Check and Direct Deposit Amounts using information from GXRDIRD: Employee Payroll Direct Deposit Information

- Incoming Disposition 40
- Outgoing Disposition 42

Considered ‘the Point of No Return’

- Once PHPDOCM is ran, the event must be completely fed to Finance and adjustments made if necessary

- Updates PHRHIST - Payroll History table
- Updates PHRJOBS - Jobs History table
- Inserts Document numbers into PHRDOCM
  - starting with 1; updated by PHPCHKL
- Inserts records into temporary table PHRTDED - Temporary Payroll Deduction Record – for better performance
PHPCHKL

PHPCHKL - Check/Direct Deposit Notice Process

- PHPCHKL printing process is run twice, once for each document type
  - Once for Direct Deposits
  - Once for Checks
- Updates disposition to 43 or 44 the first run
  - Updates PHRIST – Payroll History table
  - Updates PHRJOBS – Jobs History table
  - Updates PHRDOCM – Updates document numbers

- Updates disposition to 50 after both document types have been run

PHPDIRD

PHPDIRD – Create Direct Deposit File

- Does not update disposition

PHRDIRD

- New Report in v8.3
- Displays Direct Deposit Distribution
PHPUPDT

PHPUPDT - Pay Period Update Batch Process

- Updates disposition to 60 after PHPUPDT process
- Updates Leave history and Leave balances
- Updates seniority hours
- Updates hours for adjustments
- Manages Advancement Pledge records
- Pay Advances
- Etc.
Tables updated by PHPUPDT

- Accumulators
  - PERETOT - Insert/update monthly earnings information
  - PERJTOT - Insert/update monthly earnings by position
  - PERDTOT - Insert/update monthly deduction information
- History Tables
  - PEREHIS - Insert when PEBEMPL changes
  - PERLHIS - Insert when Leave balances are updated
- Leave Tables
- Additional tables:
  - PERPADV - Insert/update with Pay Advance amounts
  - PHRHIST - Updates Disposition to 60
  - PHRJOBS - Updates Disposition to 60
  - PDRBDED - Updates Arrears / delete add/replace information
  - PDRDEDN - Updates for bonds purchased
  - GXRDIRD - Updates for pre-note employees
  - NBRBJOB - Updates with deferred pay balances information
  - GURFDED /
  - GURALMP - Advancement Pledges
  - PDRFBAL - Employee Flexible Benefits Balances
  - PERPADV - Pay Advance Balances
PHPTIME - Time Processing Report

Purpose

Initializes Disposition to 05, 10, or 20

References data from the following tables to process the particular Year, Pay ID, and Pay Number combination:

- PTRCALN - Payroll Calendar Rule Table
- PTREARN - Earnings Code Rule Table
- PTRECLD - Earnings Code Labor Dist Rule Table
- PTRECLS - Employee Class Rule Table
- PTREERN - Employee Class Earn Code Rule Table
- PTREHOL - Employee Holidays Rule Table
- SPRIDEN - Identification/Name Repeating Table

Tables referenced

More tables referenced by PHPTIME:

- NBREARN - Employee Default Earnings Code Table
- NBRJLBD - Assignment Labor Dist Repeating Table
- NBRJOBS - Assignment Repeating Table
- NBRBJOB - Assignment Repeating Base Table
- PDRDEDN - Employee Deduction repeating Table
- PDRBDED - Employee Deduction Repeating Table
- NBBFISC - Fiscal Year Base Table
- PEBEMPL - Employee Base Table
Tables initialized

Tables 'initialized' by PHPTIME:

- Insert into PHRHIST: Pay History Repeating Table
- Insert into PHRJOBS: Pay History Jobs Repeating Table
- Insert into PHREARN: Pay History Earnings Repeating Table
- Insert into PHR_HOUR: Hour Validation Table
- Insert into PHRELBD: Pay History L/D Override Repeating Table
- Insert into PHRDEDN: Pay History Deduction Repeating Table
- Insert into PHRERRL: Pay History Error Log Repeating Table
PHPPROF - Pay Period Proof Process

Preparing for PHPPROF

• Run PHRDERR - Payroll Errors Display Report
• Run PHRDCON - Disposition Control Report
• Go to PHAHOUR - Online Time Entry Form
  ▪ Correct any errors
  ▪ Check default hours
  ▪ Add exception hours
  ▪ Change Labor Distributions
  ▪ Re-extract, if necessary
• Run PHPPROF - Pay Period Proof Process

Purpose

• Incoming Disposition is 20
• Outgoing Disposition is 25 (success), 15 or 22 (failure)
• Tables Processed by PHPPROF
  ▪ Update PHRHIST - Payroll History table
  ▪ Update PHRJOBS - Payroll History Jobs table
  ▪ Update PHRERRRL with errors - Pay History Error Log table
PHPLEAV - Leave Accruals/Taken Process

Preparing for PHPLEAV

- Run PHRDERR - Payroll Errors Display Report
- Run PHRDCON - Disposition Control Report
- Time Entry
  - PHAHOUR
  - PHATIME
- Web Time Entry
  - Correct any errors
  - Re-extract if necessary
- Run PHPLEAV - Leave Accruals/Taken Process

Purpose

- Incoming Disposition 25
- Outgoing Disposition 30
- Tables referenced by PHPLEAV
  - PERLEAV - Leave Balances
  - PTRLEAV - Leave Code Rule Form
  - PTRLVAS - Leave Assignment Rule Form
  - PTRLVAC - Leave Accrual Rule Table
  - PTRLVPR - Leave Priority Code table
Tables processed

- Tables processed by PHPLEAV
  - PHRHIST – Update Disposition to 30
  - PHRJOBS – Update Disposition to 30
  - PHREARN – Insert any Dock Pay Records
  - PHRERRL – Insert any Errors/Warnings
  - PHRACCR – Insert leave Accrual Records
PHPCALC - Payroll Calculation Process

Preparing for PHPCALC

- Run PHRDERR - Payroll Errors Display Report
- Run PHRDCON - Disposition Control Report
- Check any Dock Pay entries
- Correct any errors
- Re-extract if necessary
- Run PHPCALC - Payroll Calculation Process

Purpose

- Calculates Gross to Net
- Calculated Benefit/Deduction Amounts
- Incoming Disposition 30
- Outgoing Disposition 40
Updated reports

- Updates PHRDEDN - Deduction Calculation Report
  - Calculated Deduction amounts
- Updates PHREARN - Payroll Earnings Report
  - Calculated Earnings amounts
- Updates PHRJOBS - Payroll Jobs Report
  - Updates Disposition to 40
- Updates PHRHIST - Payroll History Report
  - Updates Disposition to 40 and records Gross and Net amounts
- Updates PHR.HOUR - Payroll Time Entry Report
  - With calculated earnings amounts by Data Entry period
- Updates PHRACCR - Payroll History Accruals Report
  - Accrual amounts (if applicable)
PHPDOCM - Check/Direct Deposit Amounts Process

Purpose

- Incoming Disposition 40
- Outgoing Disposition 42
- Creates Check and Direct Deposit Document Records
- Checks GXRDIRD - Employee Payroll Direct Deposit Record for direct deposit information

Functions

- Updates PHRHIST - Payroll History table
- Updates PHRJOBS - Jobs History table
- Inserts Document numbers into PHRDOCM - Disposition Control Report (starting with 1)
- Inserts records into temporary table PHRTDED - Temporary Payroll Deduction Record for better performance
PHPCHKL/PHPCHEK Printing Process

PHPCHKL/ PHPCHEK

The PHPCHKL/PHPCHEK printing process is run twice, once for each document type.

- Once for Checks
- Once for Direct Deposits
- Updates disposition to 43 or 44 the first run, depending on which document type is run first
- Updates PHRHIST – Payroll History table
- Updates PHRJOBS – Jobs History table
- Updates PHRDOCM – Updates document numbers
- Updates disposition to 50 after both document types have been run

Status

Now we are ready to update year to date totals and perform cleanup.
PHPUPDT – Pay Period Update Process

Tables updated by PHPUPDT

- PERETOT - Insert/update monthly earnings information
- PERJTOT - Insert/update monthly earnings by position
- PERDTOT - Insert/update monthly deduction information
- PEREHIS - Insert when PEBEMPL changes
- PERLHIS - Insert when Leave balances are updated
- PERPADV - Insert/update with Pay Advance amounts
- PHRHIST - Updates Disposition to 60
- PHRJOBS - Updates Disposition to 60
- PDRBDED - Updates to delete add/replace information
- PDRDEDN - Updates for bonds purchased
- GXRDIRD - Updates for pre-note employees
- NBRBJOB - Updates with deferred pay balances information
- PERLEAV/PERJLEV - Updates Leave balance amounts
Accumulator Tables

Accumulator Tables

- Initially created to improve performance of W2s
- Payroll amounts ‘accumulated’ by Month
- Populated when Go Live date is NOT January 1st
  - Lump Sum Method
  - By Month Method
- Life-to-Date values for Deductions (PERDTOT)

- PERETOT - Employee History Earnings Table
- PERDTOT - Employee History Deductions Table
- PERJTOT - Employee History Earnings Table

Table comparison

<table>
<thead>
<tr>
<th>Set Up Tables</th>
<th>History Tables</th>
<th>Accumulators</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEBEMPL</td>
<td>PHRHIST</td>
<td>PERETOT</td>
</tr>
<tr>
<td>NBRJOBS</td>
<td>PHRJOBS</td>
<td>PERJTOT</td>
</tr>
<tr>
<td>PDRDEDN</td>
<td>PHRDEDN</td>
<td>PERDTOT</td>
</tr>
<tr>
<td>Etc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note that the History tables are PH% tables, even those related to jobs!
Exercise 5: Query Payroll Tables

Directions

Use the information you have learned in this workbook to complete this self check activity.

Exercise

1. Retrieve the first name, last name, position number with suffix and current annual salary for all active employees (as of today). Order by last then first name and position.

2. Allowing for parameters for year, pay id and pay number, retrieve the pay period begin and end dates.

3. Retrieve the first name, last name, and position for all employees whose jobs were active during the specified payroll. Prompt for the parameters of pay year, pay id, and pay number.

4. Retrieve the payroll records which did not successfully complete the payroll process.
5. Retrieve the first and last name, gross and net pay for the original run of monthly payroll number 3 in 1995. Order by last then first name.

6. Retrieve the next available payroll year, pay id and pay number you can use as a test payroll.
Encumbrances and Budget

Introduction

This section discusses encumbrance maintenance in the Banner Payroll Process.
Banner Payroll Process – Budget Maintenance

NBPBUDM – Budget Maintenance Process

- Does not update disposition
- **Supports the Fringe Chargeback Method**
- Used during the budget development cycle
- Used throughout the year for new or **changed positions**
- **Removed from the Payroll Process in v8 with the introduction of NBPENCM**

NBPENCM – Encumbrance Maintenance Process

- Does not update disposition
- Computes Salary encumbrances amounts
- Assigns encumbrance numbers
- Ran with fiscal year end processes to release/create encumbrances
- **Ran throughout the year in sync with payroll** to pick up encumbrance changes and to liquidate encumbrances if using the recasting method
- Manages Multi-Year encumbering
Feed to Finance

Introduction

This section discusses the Feed to Finance from Banner Human Resources.
Feed to Finance: Payroll Expenses

PHPFEXP – Expenditures Finance Extract  (COBOL)

- Prepares Payroll Expense data for the Feed to Finance
  - Updates Disposition to 62
  - Updates Expended Amounts on NBAPBUD
  - Inserts into NHRFINC (temporary)
  - Inserts into NHRDIST if option checked on NTRINST
Feed to Finance - Budgets and Encumbrances

**NHPFIN1**
- Prepares Encumbrance, Budget and COBRA data for the Feed to Finance process
  - Does NOT update the disposition
  - Inserts into NHRFINC (temporary)
  - Inserts into NHRDIST if option checked on NTRINST

**NHPFIN2**
- Updates disposition to 70
- Loads PHPFEXP and NHPFIN1 interface data into GURFEED - the Finance Interface table
- Looks to FOBSEQN table to get the next Document number, and it will start with F
- Prints Finance report
Feed to Finance - Finance Processes Take Over

Processes

- Refer to the Finance User Guide for instruction
  - Interfaces Chapter
  - Feeding Payroll Transactions

- Refer to the Human Resources User Guide
  - Interfaces Chapter
  - Interface to the Banner Finance System
  - Feed Payroll Transactions
Feed to Finance – Recommendations

Multiple Feeds

Run separate Feeds to Finance to provide separate reports:

- **Payroll Expenditures (Finance and Payroll Office)**
  - PHPUPDT
  - PHPFEXP
  - NHPFIN2
  - FURFEED…. Initiated by Finance

- **Encumbrance and Budget (Finance and Budget Office)**
  - NBPBUDM (if applicable)
  - NBPENCM
  - NHPFIN1
  - NHPFIN2
  - FURFEED….Initiated by Finance
Ellucian Help Resources

Introduction

This section discusses the various help resources provided by Ellucian.
Sources of Help

Banner Bookshelf

- Module-Specific
  - Technical Reference Manual (TRM) Supplement(s)
- Banner Human Resources
  - User Guide
  - Release Guides
  - Handbooks
  - Training Workbooks
Ellucian Support

Customer Support Center:  www.ellucian.com

- Browse open and resolved contacts of your organization in detail
- Browse Known Issues, defect descriptions, corrections, workarounds and FAQs
- Download Banner documentation and Upgrades
- Review the Product Calendar for future product enhancements and defect resolutions
- Browse known issues

Ellucian Action Line

Phone/Fax help for time-critical issues.

To contact the Action Line:

Phone: 1-800-522-4TCP

FAX: 1-610-725-7430
The Commons

- Online community where Ellucian customers, partners and employees share, learn, explore and create.
  - share experiences
  - ask questions and find answers
  - connect to a collaborative and informed network
  - Articles, news, blogs, best practices
  - reference materials, document libraries, discussion threads
- Take the ‘Getting Started in The Commons’ video tour

Sign Up @ http://commons.ellucian.com