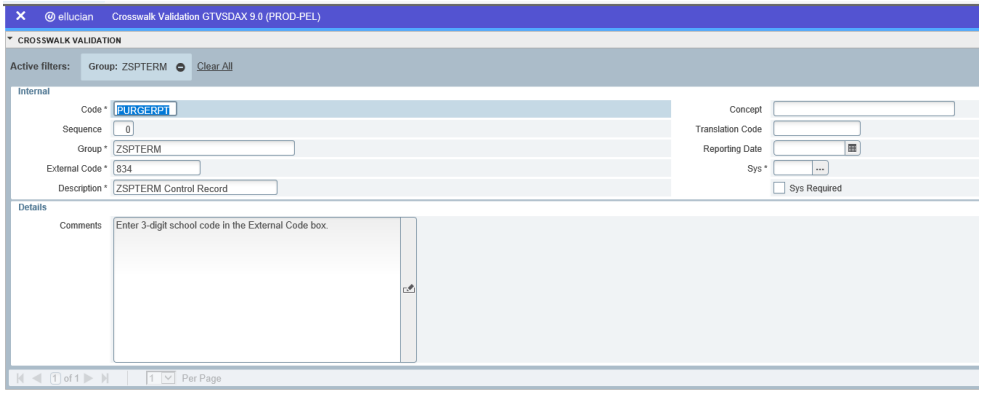
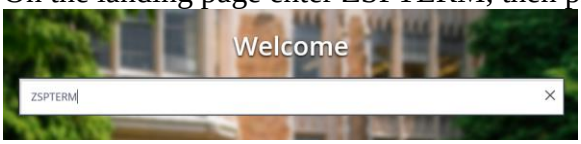
Banner 9
ZSPTERM – Identifies Early Term Balances for Students

ZSPTERM is a job-submission process that identifies Early Term Balances for students. It pulls all students balances using charges from a specific date forward and for a desired term. Use DATABASE/'Show Document Save and File Print' to obtain your listing. ZSPTERM populates the table DTAE.TBALANC, which can be used later in Population Selections and Early Term Billings.

A one-time setup will need to be done on GTVSDAX for this program. The record has already been added to your table. You will need to go to GTVSDAX > F7 > Enter ZSPTERM in the Group field > F8. Update the External Code field to your college's 3-digit school number and save.



On the landing page enter ZSPTERM, then press enter.

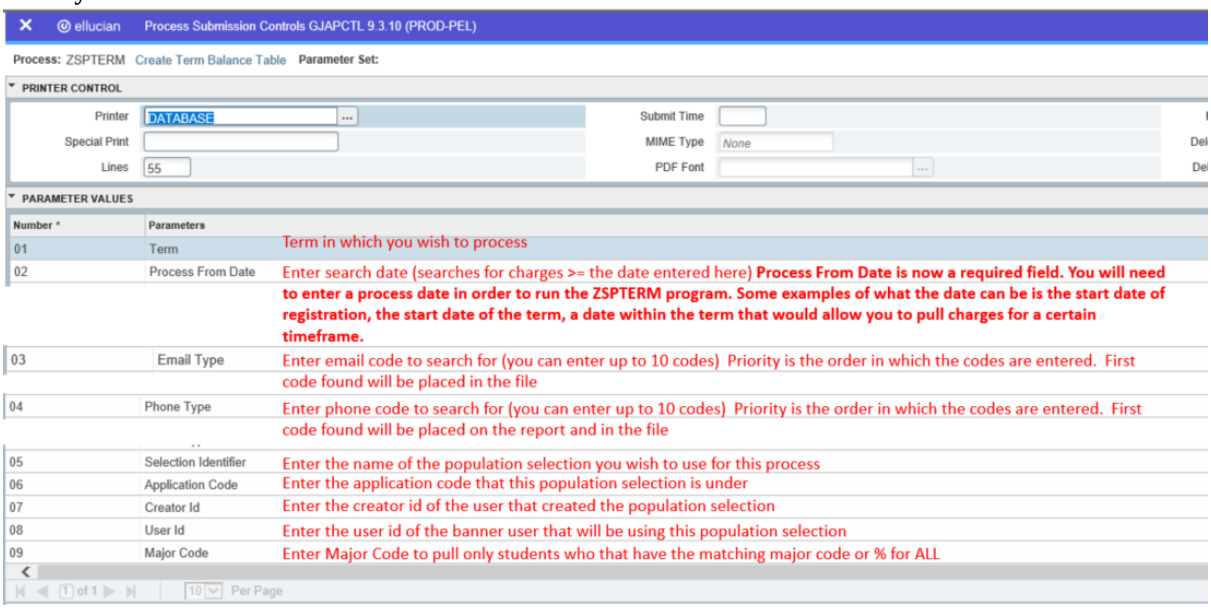


In Process Submission select **Go**

In the Printer Control Section – Enter *Database*

Alt Page Down to go to next section or click on the down arrow at the bottom of the page.

Enter your Parameter Values. Each Parameter is defined in red.



Note: ZSPTERM

If you enter population selection information in parameters 05-08, then the ZSPTERM process will only act on those students that are in the population selection for the term entered in parameter 01.

If parameters 05-08 are left blank, then the process will act on all students for the term entered in parameter 01.

If a major code is entered in parameter 09, only students that have that major code on their General student records (SGASTDN) will be pulled for the report and text file.

To pull ALL Major codes enter % in parameter 09.

ZSPTERM produces a .log, .lis and a .txt file.

ZSPTERM produces a 'receivables' report based on balances. This report also takes into consideration TIV rules for financial aid payments. It checks to see if a charge is institutional before applying TIV financial aid to that balance. The fields on the report include: *Name, ID, Charge Balance* (excluding any E-type charges), *Payment Balance* (excluding any E-type payments), *Accept Flag, Student Type, Student Major, Home Campus, SSN, Telephone Number, SFAWDRL Indicator,* and calculated *Student Balance*.

A second report produces a listing of all students who have Credit hours in SFAREGS but do not have charges incurred from the Registration module (Source Code R) on TSAAREV.
This information shows students with missing fee assessment; it may also show students with no billing hours who may need to be protected from the purge process. The fields on the report include: *Name, ID, Billed Hours, Charge Balance* (excluding any E-type charges), *Payment Balance* (excluding any E-type payments), *Accept Flag, Student Type, Student Major, Home Campus, SSN, Telephone Number, SFAWDRL Indicator,* and calculated *Student Balance*.

A text file will also be produced containing students with a receivable balance. The file contains the following fields: *ID, Last Name, First Name, MI, Term, Hours, Charges, Payments,* calculated *Term Balance, Accept Flag, Student Type, Home Campus, Student Major, Student Residence, SSN, Telephone Number, SFAWDRL Indicator*, Student Email Address, Cumulative GPA, Expected Graduation Date**, Total FA, Total Cont/Schl***, Other Payments, and Total Revenue*. This information can be imported into Excel for use in other processing.

* Note: Withdrawal Indicator = Y if a date of last withdrawal date exists (SFAWDRL) for the student.

** Note: Expected Graduation Date is pulled from SGASTDN on the Academic and Graduation Status, Dual Degree tab. If the student does not graduate on the expected date, and the date is updated, the new date will appear in the text file.

*** Note: Total Cont/Schl does not include memos that have expired. I.E. NELP and FAPN

Payments considered include: Payments posted on TSAAREV, Financial Aid Authorizations and Contractor Memos not exempted (Pay Type not E on TSADETC).

Memos are checked for the expiration date. If the memo has an expiration date and the expiration date is less than the date you are running the report (i.e. the memo has not expired) the memo amount will be considered in the payments.

The student will only appear on this report if the payments and anticipated credits do not cover the term-based fees. **Reminder: TIV rules are followed for TIV payments from TSAAREV and Financial Aid Authorizations.** *This could mean that a student could have more payments/credits than term-based fees, but could still be on the report. Usually this would mean that the fees in question are not marked as Institutional on the TSADETC form.*

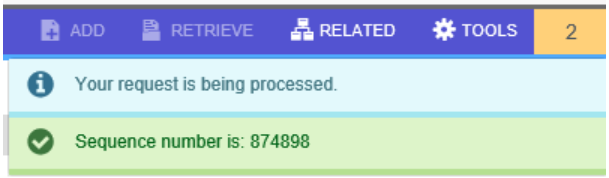
Note 1: Always run the Application of Payment processes prior to running ZSPTERM.

Note 2: Only one user can run ZSPTERM at a time. Data is deleted from the DTAE.TBALANC table and is recreated each time the process is run.

After you have entered your parameters Alt Page Down **to go to next section or click on the down arrow at the bottom of the page.**

Press F10 to save or select the SAVE button at the bottom right corner to run the process.

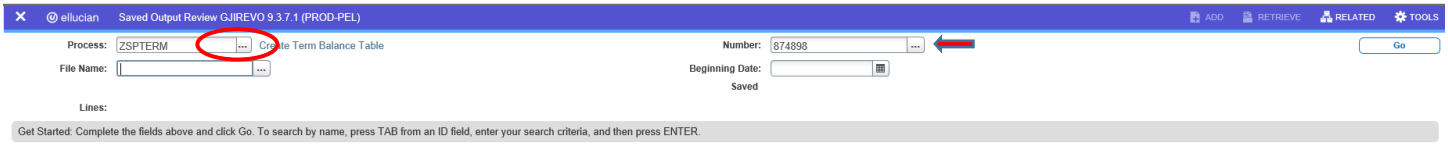
Once the process is run you will see informational message in the top right corner of your page. It will also identify the sequence number.

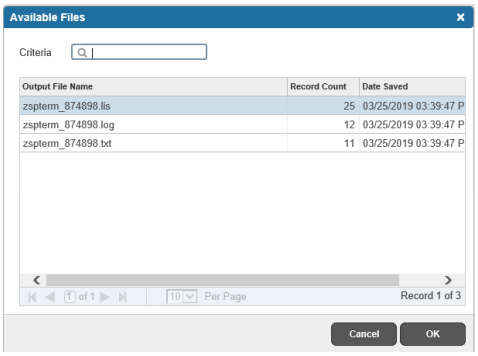


To view your .log and .lis file, click the RELATED tab at the top right of the page and then select Review Output [GJIREVO]

Click on the … to view your .log or .lis file.

Your sequence number will be showing. (If the process is complete)





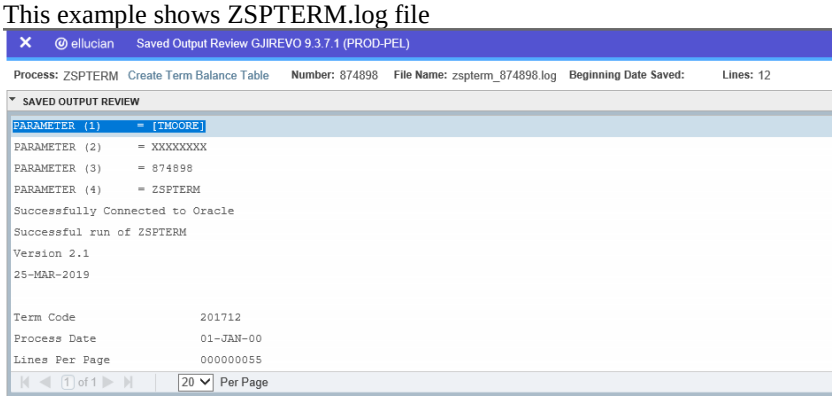
You will see your available files.

Select either your .log file, .lis file or .txt file

Then click OK

Below is sample output information of your .log, .lis and .txt file.

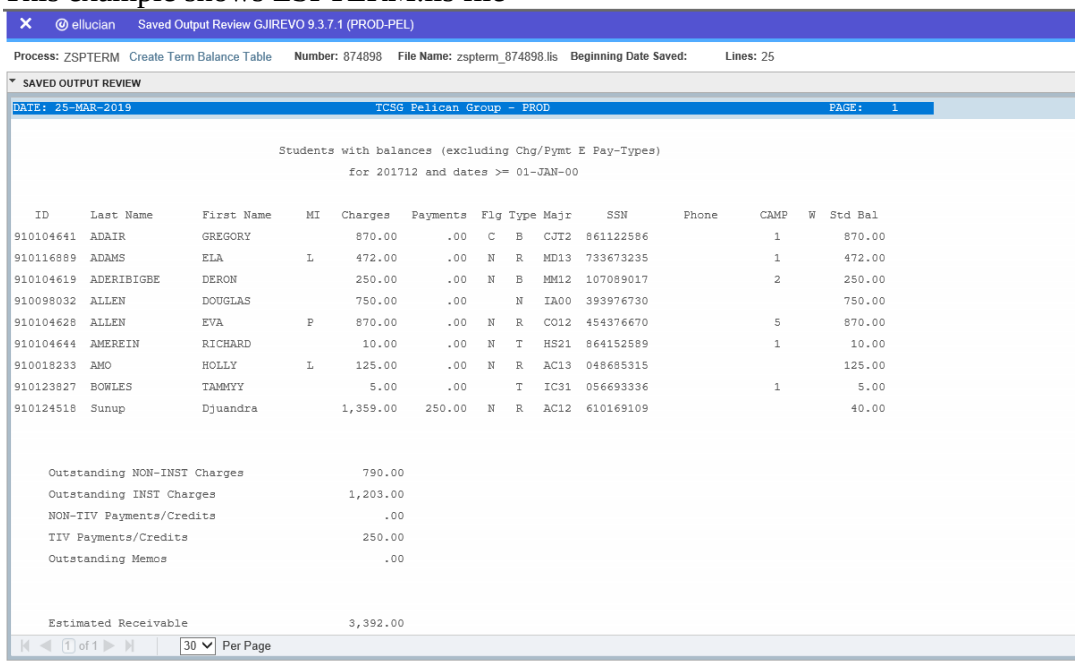
This example shows ZSPTERM.log file



To go back and look at the .log file, click the Start Over button on the top right hand corner of the page.

You can select your lis file to review.

This example shows ZSPTERM.lis file



ellucian Saved Output Review GJIREVO 9.3.7.1 (PROD-PEL)

Process: ZSPTERM Create Term Balance Table Number: 874898 File Name: zspterm_874898.lis Beginning Date Saved: Lines: 25

SAVED OUTPUT REVIEW

DATE: 25-MAR-2019 TCSG Pelican Group - PROD PAGE: 1

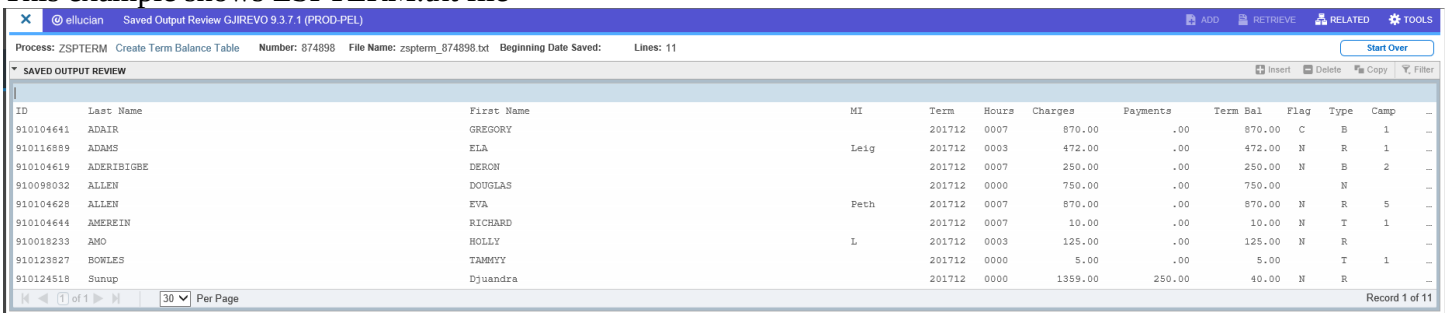
Students with balances (excluding Chg/Pymt E Pay-Types)
for 201712 and dates >= 01-JAN-00

ID	Last Name	First Name	MI	Charges	Payments	Flg	Type	Majr	SSN	Phone	CAMP	W	Std Bal
910104641	ADAIR	GREGORY		870.00	.00	C	B	CJT2	861122586		1		870.00
910116889	ADAMS	ELA	L	472.00	.00	N	R	MD13	733673235		1		472.00
910104619	ADERIBIGBE	DERON		250.00	.00	N	B	MM12	107089017		2		250.00
910098032	ALLEN	DOUGLAS		750.00	.00		N	IA00	393976730				750.00
910104628	ALLEN	EVA	P	870.00	.00	N	R	CO12	454376670		5		870.00
910104644	AMEREIN	RICHARD		10.00	.00	N	T	HS21	864152589		1		10.00
910018233	AMO	HOLLY	L	125.00	.00	N	R	AC13	048685315				125.00
910123827	BOWLES	TAMMYY		5.00	.00		T	IC31	056693336		1		5.00
910124518	Sunup	Djuandra		1,359.00	250.00	N	R	AC12	610169109				40.00

Outstanding NON-INST Charges	790.00
Outstanding INST Charges	1,203.00
NON-TIV Payments/Credits	.00
TIV Payments/Credits	250.00
Outstanding Memos	.00
Estimated Receivable	3,392.00

1 of 1 30 Per Page

This example shows ZSPTERM.txt file



ellucian Saved Output Review GJIREVO 9.3.7.1 (PROD-PEL) ADD RETRIEVE RELATED TOOLS

Process: ZSPTERM Create Term Balance Table Number: 874898 File Name: zspterm_874898.txt Beginning Date Saved: Lines: 11 Start Over

SAVED OUTPUT REVIEW Insert Delete Copy Filter

ID	Last Name	First Name	MI	Term	Hours	Charges	Payments	Term Bal	Flag	Type	Camp
910104641	ADAIR	GREGORY		201712	0007	870.00	.00	870.00	C	B	1
910116889	ADAMS	ELA	Leig	201712	0003	472.00	.00	472.00	N	R	1
910104619	ADERIBIGBE	DERON		201712	0007	250.00	.00	250.00	N	B	2
910098032	ALLEN	DOUGLAS		201712	0000	750.00	.00	750.00		N	
910104628	ALLEN	EVA	Peth	201712	0007	870.00	.00	870.00	N	R	5
910104644	AMEREIN	RICHARD		201712	0007	10.00	.00	10.00	N	T	1
910018233	AMO	HOLLY	L	201712	0003	125.00	.00	125.00	N	R	
910123827	BOWLES	TAMMYY		201712	0000	5.00	.00	5.00		T	1
910124518	Sunup	Djuandra		201712	0000	1359.00	250.00	40.00	N	R	

1 of 1 30 Per Page Record 1 of 11

If you click the X at the top left,

you will go back to Process Submission Control GJAPCTL – Process ZSPTERM.

NOTE:

Description of columns containing financial data (report and text file):

Charges – contains the sum of TSAAREV balance column for charge detail codes that are not pay type E. This column contains the students overall charges for the term that have not yet been liquidated in banner.

Payments – contains the sum of TSAAREV balance column for payment detail codes that are not pay type E. It also contains any authorizations and any memos.
This column contains the students overall payments that have not yet been liquidated in banner.

Term Balance – contains the student's remaining balance due based on TIV logic rules for application of payment distribution.

Example: a student does not have a TIV authorization, and the student has a late fee of $45 that is a non-institutional fee, and received PELL. Even if the student has enough PELL to cover their balance, they will be on ZSPTERM for $45 because PELL is Title IV aid and the student does not have a TIV authorization.

Total FA – contains the sum of TSAAREV amount (source F payment detail codes that are not pay type E) plus any authorizations not yet posted to the students account for the term. Hope Book, previous and current year write-offs, and fee waivers are NOT included on the Total FA amount.
If a disbursement is reversed, the sum of those payments will total to zero. If the authorization is removed, it will not be included in this total.

Total Cont./Schl - contains the sum of TSAAREV amount (source C payment detail codes that are not pay type E) for contracts and scholarships that have been disbursed plus any memos not yet posted to the students account for the term. Expired Memos, Hope Book, previous and current year write-offs, and fee waivers are NOT included on the Total Cont./Schl amount.
If the disbursement is reversed, the sum of those payments will total to zero. If the memo is removed, it will not be included in this total.

Other Payments - contains the sum of TSAAREV amount for payment detail codes that are any source code other than F and C and that are not pay type E. Hope Book, previous and current year write-offs, fee waivers and Return Check Charges are NOT included in the Other Payments amount.
This column contains cash, check, and charge payments on the students account for the term. If the payment is reversed, the sum of those payments will total zero.

Total Revenue – contains the sum of TSAAREV amount (source code R) detail codes for the term.
This is the total amount charged to the student during the registration process (source code R). Once the student's balance is paid in full, this would be the total revenue the college would receive.

Also, for each student selected on ZSPTERM report, it generates a DTAE.TBALANC record that can be used in Banner Population Selections:

TBALANC_PIDM	PIDM (or internal student #) who owes for the current term
TBALANC_TERM_CODE	Current term
TBALANC_HOURS	Billed hours for the current term
TBALANC_FLAG	Commit flag (Y, C, or N)
TBALANC_TYP	Student Type (B, R, H, T, U, etc.)
TBALANC_MAJR	Student's Major 1
TBALANC_CAMP	Student's Campus (from latest SGASTDN Record)
TBALANC_RESD	Student's Residency Code (from latest SGASTDN Record)
TBALANC_SSN	Student's Social Security Number (from SPAPERS)
TBALANC_PHONE	Student's Phone Number
TBALANC_EMAIL	Student's Email Address
TBALANC_SFRWDRL	Does student have a withdrawal record for term? Y = Yes
TBALANC_CHARGES	Sum of charges for term (from TSAAREV)
TBALANC_PAYMENTS	Sum of payments (from TSAAREV)
TBALANC_AUTHS	Sum of authorizations (view on ROASMRY)
TBALANC_MEMOS	Sum of Memos (from TBRMEMO - view on ROASMRY)
TBALANC_TERM_BALANCE	Student's Calculated Balance

Table Changes for ZSPTERM V1.0

OLD TABLE

saisusr.tbalanc

```
tbalanc_pidm
tbalanc_term_code
tbalanc_hours
tbalanc_hope_registered
tbalanc_gsfc_chgs
tbalanc_flag
tbalanc_typ
tbalanc_majr
tbalanc_ssn
tbalanc_phone
tbalanc_sfrwdrl
tbalanc term balance
```

NEW TABLE

DTAE.TBALANC

```
TBALANC_PIDM
TBALANC_TERM_CODE
TBALANC_HOURS
TBALANC_FLAG
TBALANC_TYP
TBALANC_MAJR
TBALANC_CAMP
TBALANC_RESD
TBALANC_SSN
TBALANC_PHONE
TBALANC_EMAIL
TBALANC_SFRWDRL
TBALANC_CHARGES
TBALANC_PAYMENTS
TBALANC_AUTHS
TBALANC_MEMOS
TBALANC_TERM_BALANCE
```

Table Changes with ZSPTERM V1.0

Old Table –

tbalanc_hope_registered - no longer in the new DTAE.TBALANC table

tbalanc_gsfc_chgs - no longer in the new DTAE.TBALANC table.

New Table –

TBALANC_CAMP – added to show student's campus from latest SGASTDN record

TBALANC_RESD – added to show student's residency code from the latest SGASTDN record

TBALANC_EMAIL – added to show student's email address

TBALANC_CHARGES – added to show student's summed charges for the term

TBALANC_AUTHS – added to show student's summed authorizations for the term

TBALANC_MEMOS – added to show the student's summed memos for the term

Table Changes for Version 1.4

A new table was added to this version to store data that will be extracted by DPR for the needs based purge project. Analysis will be done on the data in this table.

```
SAISUSR  on PRD8 > desc DTAE.ZSPURGE
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------
 ZSPURGE_SCH_NUM                           NOT NULL NUMBER(3)
 ZSPURGE_PIDM                              NOT NULL NUMBER(8)
 ZSPURGE_TERM_CODE                                  VARCHAR2(6 CHAR)
 ZSPURGE_ENTRY_DATE                                 DATE
 ZSPURGE_ENTRY_TIME                                 VARCHAR2(15 CHAR)
 ZSPURGE_HOURS                                      NUMBER(5,2)
 ZSPURGE_FLAG                                       VARCHAR2(1 CHAR)
 ZSPURGE_TYP                                        VARCHAR2(1 CHAR)
 ZSPURGE_MAJR                                       VARCHAR2(4 CHAR)
 ZSPURGE_CAMP                                       VARCHAR2(4 CHAR)
 ZSPURGE_RESD                                       VARCHAR2(4 CHAR)
 ZSPURGE_ID                                NOT NULL VARCHAR2(9 CHAR)
 ZSPURGE_PHONE                                      VARCHAR2(18 CHAR)
 ZSPURGE_EMAIL                                      VARCHAR2(50 CHAR)
 ZSPURGE_SFRWDRL                                    VARCHAR2(1 CHAR)
 ZSPURGE_CHARGES                                    NUMBER(9,2)
 ZSPURGE_PAYMENTS                                   NUMBER(9,2)
 ZSPURGE_AUTHS                                      NUMBER(9,2)
 ZSPURGE_MEMOS                                      NUMBER(9,2)
 ZSPURGE_TERM_BALANCE                               NUMBER(9,2)
 ZSPURGE_CUM_GPA                                    NUMBER(4,2)
 ZSPURGE_GRAD_DATE                                  DATE
 ZSPURGE_TOT_FA                                     NUMBER(9,2)
 ZSPURGE_TOT_MEMOS                                  NUMBER(9,2)
 ZSPURGE_TOT_PAYMENTS                               NUMBER(9,2)
 ZSPURGE_TOT_REVENUE                                NUMBER(9,2)
```

Table Changes for Version 1.5

A new field (ZSPURGE_EVER_ENROLLED) was added to the DTAE.ZSPURGE table to handle students with balances that have never been enrolled for the term. The students may owe an application/graduation fee or some other fee, but did not enroll for the term.

```
SAISUSR  on PRD8 > desc DTAE.ZSPURGE
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 ZSPURGE_SCH_NUM                           NOT NULL NUMBER(3)
 ZSPURGE_PIDM                              NOT NULL NUMBER(8)
 ZSPURGE_TERM_CODE                                  VARCHAR2(6 CHAR)
 ZSPURGE_ENTRY_DATE                                 DATE
 ZSPURGE_ENTRY_TIME                                 VARCHAR2(15 CHAR)
 ZSPURGE_HOURS                                      NUMBER(5,2)
 ZSPURGE_FLAG                                       VARCHAR2(1 CHAR)
 ZSPURGE_TYP                                        VARCHAR2(1 CHAR)
 ZSPURGE_MAJR                                       VARCHAR2(4 CHAR)
 ZSPURGE_CAMP                                       VARCHAR2(4 CHAR)
 ZSPURGE_RESD                                       VARCHAR2(4 CHAR)
 ZSPURGE_ID                                NOT NULL VARCHAR2(9 CHAR)
 ZSPURGE_PHONE                                      VARCHAR2(18 CHAR)
 ZSPURGE_EMAIL                                      VARCHAR2(50 CHAR)
 ZSPURGE_SFRWDRL                                    VARCHAR2(1 CHAR)
 ZSPURGE_CHARGES                                    NUMBER(9,2)
 ZSPURGE_PAYMENTS                                   NUMBER(9,2)
 ZSPURGE_AUTHS                                      NUMBER(9,2)
 ZSPURGE_MEMOS                                      NUMBER(9,2)
 ZSPURGE_TERM_BALANCE                               NUMBER(9,2)
 ZSPURGE_CUM_GPA                                    NUMBER(4,2)
 ZSPURGE_GRAD_DATE                                  DATE
 ZSPURGE_TOT_FA                                     NUMBER(9,2)
 ZSPURGE_TOT_MEMOS                                  NUMBER(9,2)
 ZSPURGE_TOT_PAYMENTS                               NUMBER(9,2)
 ZSPURGE_TOT_REVENUE                                NUMBER(9,2)
 ZSPURGE_EVER_ENROLLED                              VARCHAR2(1 CHAR)
```

Troubleshooting –

When the upgrade for this program is applied, your BPL will run a script that will create the new DTAE.TBALANC table. If for any reason this table gets dropped/deleted from you system, you will receive the following error message in the logfile when you try to run ZSPTERM.

```
PARAMETER (1)     = saisusr
PARAMETER (2)     = XXXXXXXX
PARAMETER (3)     = 1074013
PARAMETER (4)     = ZSPTERM
Successfully Connected to Oracle in ZSPTERM
30-OCT-2015

pidm=
paragraph = 2000
You have encountered an ORACLE error.
SQLCODE: -0000000942
Message: ORA-00942: table or view does not exist


DTAE.TBALANC table missing
BPL must run rebuild_tbalanc.sql script
```

If you receive this error, your BPL must run the rebuild script. The instructions on how to run the BPL script are below. You will need to provide these instructions to your BPL in order to correct the error listed above.

If you receive the following error in your .lis file:

```
Incorrect/No Control Record Found. Go to GTVSDAX
```

Please refer to the one-time setup instructions at the top of this document. This error means that there is not control record for ZSPTERM on GTVSDAX, OR you have not updated your 3-digit school code. School codes are unquie to the school, but MUST be > 800.

If you receive this error in your .log file:

```
PARAMETER (2)    = XXXXXXXX
PARAMETER (3)    = 1356769
PARAMETER (4)    = ZSPTERM
Successfully Connected to Oracle in ZSPTERM
28-JUL-2016

pidm=
paragraph = 1020
You have encountered an ORACLE error.
SQLCODE: -0000002112
Message: SQL-02112: SELECT..INTO returns too many rows
```

This error means that there is more than one control record for ZSPTERM on GTVSDAX. You can only have one control record. Go to GTVSDAX > F7 > Enter ZSPTERM in the Group field > F8. Then delete one of the records from Banner and hit F10 to Save. NOTE: Make sure that the record that is left contains your correct school code.

For the BPL:

This script will create the DTAE.TBALANC table, will grant select, update, insert, and delete to PUBLIC for the DTAE.TBALANC table, and will then delete the jobsub control record for the ZSPTERM program.

As saturn:

sqlplus saturn/yourpassword @/u02/app/Dtae/Menu/Mods/rebuild_tbalanc.sql

SQL*Plus: Release 11.2.0.3.0 Production on Tue Nov 3 10:51:27 2015

Copyright (c) 1982, 2011, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

Table created.

Grant succeeded.

Grant succeeded.

Grant succeeded.

Grant succeeded.

0 rows deleted.

Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
PRD8:awhite@creole:/u02/app/Dtae/Menu/Mods:$

Additional Information:

With this upgrade a script will also be provided to your BPL that will provide you a list of all your pop sels that use the TBALANC table. ALL POP SELS WILL HAVE TO BE UPDATED TO CHANGE THE NAME TO DTAE.TBALANC.

As Saturn:

sqlplus saturn/yourpassword @tbalanc_pop_sels.sql

This will produce a file /tmp/tbalanc_popsels.lst

The file will look something like this:

GLBEXTR_SELECTION	GLBEXTR_USER_ID	GLBEXTR_AP
TBALANC	ODAVIS	AR
TBALANC	SAISUSR	AR
TBALANC_HS_STDS	SAISUSR	AR
TBALANC_NO_CAMPUS	SAISUSR	AR
BALANCE	WHICKS	FINAID