



# Automating Banner at Foothill-De Anza CCD using EnterpriseSCHEDULE

Creating Banner jobs and work streams that automate time consuming and error prone daily tasks using the customized EnterpriseSCHEDULE Job Scheduling application



# Tight integration with Banner

Preconfigured prototype jobs are ready to automate with a minimal amount of configuration of Banner parameters like Program name and Parameter set name

The image displays two web interfaces side-by-side, connected by a green arrow pointing from the Banner interface to the Enterprise SCHEDULE interface. Above the Banner interface is a purple box with the text "ellucian® BANNER".

**Banner Process Submission Controls (Left):**

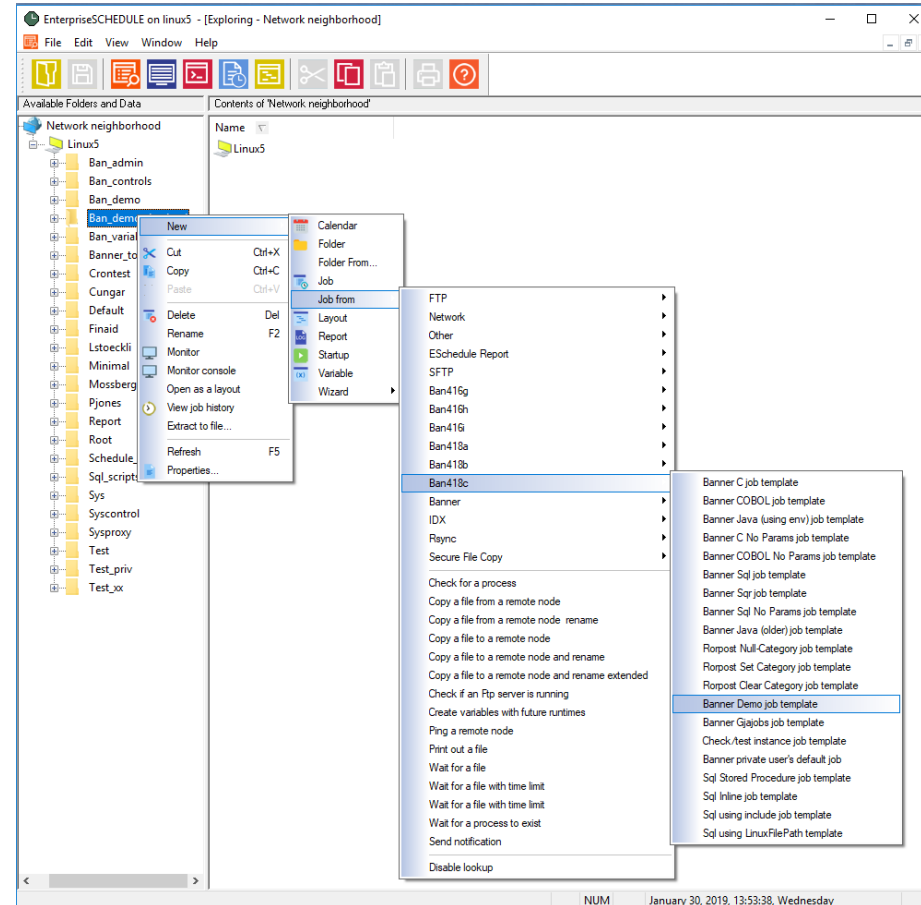
- Process: SWRDNPT Audit - Delete non-pmt report Parameter Set:
- Printer: [Dropdown] Lines: 55
- Special Print: [Dropdown] Submit Time: [Dropdown]
- PARAMETER VALUES Table:

Number *	Parameters	Values
01	Term Code	201203
02	Campus Code	1
03	Attendance Method	W
04	Organization Code	%
05	Subject Code	%
06	Fund Code	%
07	Program Code	%
08	Sort order	S
09	Print Student Detail	Y
10	CRN	%

**Enterprise SCHEDULE (Right):**

- Options: General Settings Statistics Parameters Notifications Initiates
- Prerequisites Commands Rescheduling Resources End Actions Submit Access
- Notes Banner Controls **Banner Output** Banner Overrides Oracle Controls
- JOB NAME: /BAN\_DEMO\_DATALOAD/008\_1516\_RORPOST\_NULL\_COLLEGEFH
- Program Info:
  - Banner Job Details: [Dropdown]
  - Include Template: /default/bany/bany\_rorpost\_job [Dropdown]
  - Program Name: rorpost [Text]
  - Job Script Path: /default/ban/banner\_rorpost\_null\_category\_jsrpt [Text]
  - Aidyear: {{Aidyear}} [Text]
  - Category to clear: COLLEGEFH [Text]
- Scrape Log Details:
  - Scrape Banner Job Log:  Log File Search preference defined by order of keys: [Dropdown]
  - Scrape Banner List File:  List File Search preference defined by order of keys: [Dropdown]
- Last Run:
  - Banner Output File: PROD
  - Banner SID: [Text]
  - Cumulative Run Summary log: /tmp/ [Text]
  - Submitted at: [Text]
  - Started at: [Text]
  - Finished at: [Text]
  - Completion status: 0x00000000
- Buttons: Apply, Cancel, Help

# Quickly and easily Create Banner jobs from an extensive list of preconfigured templates



# Process name is designated in job definition

The image shows a screenshot of the EnterpriseSCHEDULE Banner Job Properties dialog box. The dialog is titled "EnterpriseSCHEDULE Banner Job Properties" and is open over a web browser window. The browser window shows the "Process Submission Controlss GJAPCTL 9.3.3 (TEST)" page with the "Process: GLBDATA" highlighted. The dialog box has a tabbed interface with "Banner Output" selected. The "JOB NAME: /BAN\_DEMO\_DATALOAD/006\_1516\_GLBDATA\_COLLEGE\_CODE\_FH" is displayed at the top. The "Program Info" section contains the following fields: "Banner Job Details" (empty), "Include Template" (set to "/default/ban/Bani\_cobol\_job"), "Program Name" (set to "glbdata", circled in blue), "Parameter Set User" (set to "baninst1"), and "Parameter Set Name" (set to "COLLEGE\_CODE\_FH"). The "Scrape Log Details" section has "Scrape Banner Job Log" checked and "Scrape Banner List File" unchecked. The "Last Run" section shows the Banner Output File as "PROD" and the Banner SID as "/banner/ise/dataload/restran/Dail\_banner\_jobs\_01112016.log". The "Submitted at" is "September 11, 2013, 0:00:00", "Started at" is "September 11, 2013, 0:00:00", and "Finished at" is "September 11, 2013, 0:00:00". The "Completion status" is "0x00000000". There are "Apply", "Cancel", and "Help" buttons at the bottom. A blue callout box labeled "Banner Parameter Set" points to the "Parameter Set Name" field. Another blue callout box labeled "Process: GLBDATA" points to the "Process" field in the browser window.

EnterpriseSCHEDULE Banner Job Properties

Options General Settings Statistics Parameters Notifications Initiates  
Prerequisites Commands Rescheduling Resources End Actions Submit  
Access Notes Banner Controls Banner Output Banner Overrides Oracle Controls

JOB NAME: /BAN\_DEMO\_DATALOAD/006\_1516\_GLBDATA\_COLLEGE\_CODE\_FH

Program Info

Banner Job Details: [ ] ?

Include Template: /default/ban/Bani\_cobol\_job ?

Program Name: glbdata ?

Parameter Set User: baninst1 ?

Parameter Set Name: COLLEGE\_CODE\_FH ?

Scrape Log Details

Scrape Banner Job Log:  ? Log File Search preference defined by order of keys:  ?

Scrape Banner List File:  ? List File Search preference defined by order of keys:  ?

Last Run

Banner Output File: PROD

Banner SID: /banner/ise/dataload/restran/Dail\_banner\_jobs\_01112016.log

Cumulative Run Summary log: /banner/ise/dataload/restran/Dail\_banner\_jobs\_01112016.log

Submitted at: September 11, 2013, 0:00:00

Started at: September 11, 2013, 0:00:00

Finished at: September 11, 2013, 0:00:00

Completion status: 0x00000000

Apply Cancel Help

Process: GLBDATA Audit - Delete non-pmt report Parameter Set: COLLEGE\_CODE\_FH

Printer [ ]  
Special Print [ ]

PARAMETER VALUES

Number *	Parameters
01	Term Code
02	Campus Code
03	Attendance Method
04	Organization Code
05	Subject Code
06	Fund Code
07	Program Code
08	Sort order
09	Print Student Detail
10	CRN

1 of 2 10 Per Page

Banner Parameter Set

# Parameter set is loaded at runtime based on designation in job definition

The image shows two overlapping screenshots from the EnterpriseSCHEDULE web interface. The left screenshot shows the 'Process Submission Controlss GJAPCTL 9.3.3 (TEST)' page with a 'Parameter Set' dropdown menu set to 'COLLEGE\_CODE\_FH'. The right screenshot shows the 'EnterpriseSCHEDULE Banner Job Properties' dialog box for job name '/BAN\_DEMO\_DATALOAD/006\_1516\_GLBDATA\_COLLEGE\_CODE\_FH'. A blue line connects the 'COLLEGE\_CODE\_FH' value in the left screenshot to the 'Parameter Set Name' field in the right screenshot, which also contains 'COLLEGE\_CODE\_FH'. A blue box labeled 'Banner Parameter Set' points to the 'Parameter Set Name' field. The dialog box includes sections for Program Info, Scrape Log Details, and Last Run.

**EnterpriseSCHEDULE Banner Job Properties**

Options | General | Settings | Statistics | Parameters | Notifications | Initiates  
Prerequisites | Commands | Rescheduling | Resources | End Actions | Submit  
Access | Notes | Banner Controls | **Banner Output** | Banner Overrides | Oracle Controls

**JOB NAME: /BAN\_DEMO\_DATALOAD/006\_1516\_GLBDATA\_COLLEGE\_CODE\_FH**

Program Info

Banner Job Details: [ ] ?  
Include Template: /default/ban/Bani\_cobol\_job ?  
Program Name: glbdata ?  
Parameter Set User: baninst1 ?  
Parameter Set Name: **COLLEGE\_CODE\_FH** ?

Scrape Log Details

Scrape Banner Job Log:  ? Log File Search preference defined by order of keys:  ?  
Scrape Banner List File:  ? List File Search preference defined by order of keys:  ?

Last Run

Banner Output File: PROD  
Banner SID: /banner/ise/dataload/restran/Dail\_banner\_jobs\_01112016.log  
Cumulative Run Summary log: September 11, 2013, 0:00:00  
Submitted at: September 11, 2013, 0:00:00  
Started at: September 11, 2013, 0:00:00  
Finished at: September 11, 2013, 0:00:00  
Completion status: 0x00000000

Apply Cancel Help

# Banner job creation and implementation example

1

Set up variables that apply to all or some of your jobs

Name	Type	Description	Value
Aid_year_code_c	Expression		"88,((\ban_controls\Aidyearcode)),12"
Aidyearcode	String	AidYearCode	1517
Aidyear	String	AidYearCode	1516
Aidyear_tag	String	AidYearCode,Tag	1516,Aidy
Aidyearcurrent	String	Aidyear Current - Last year a...	((\ban_controls/yearprior))(\ban_controls/yearcurrent)
Aidyearnext	String	Aidyear Next - This year and...	((\ban_controls/yearcurrent))(\ban_controls/yearnext)
Banhome	String	Set Default Home for Banne...	/home/banner/jobsubmissions
Bansid	String	Oracle System Identifier	prod
Copy_destination	String	Copy to directory PATH	/tmp
Current_term	String	current term to process	201401
Currentaidyear	Expression	String - year portion of next ...	(format="YY" (adate "today" - 6 month) ) + (format="Y...
Currentaidyearbkup	Expression	String - year portion of next ...	format="YY" (adate "today" - 365 day) + format="YY" (...
Email_list	String	Production -- user1,user2 et...	pjones@i-s-e.com  cr admin@i-s-e.com
Ftp_destination	String	Ftp to directory PATH.	/tmp
Ftp_mode	String	Ftp mode {ascii/binary}	ascii
Ftp_node	String	Destinaion Node (server/ho...	{server hostname goes here}
Ftp_passwd	String	Ftp Password	{ftp password goes here}
Ftp_user	String	Ftp Username	{ftp username goes here}
Just_today	String	Todays dataoad date. Need...	sysdate
Lastdd	String	Last dataoad date. Can be i...	sysdate-1
Nextaidyear	Expression	String - year portion of next ...	(format="YY" (adate "today" + 6 month) ) + (format="...
Nextaidyearbkup	Expression	String - year portion of next ...	format="YY" (adate "today") + format="YY" (adate "to...
Override1	String	Override and/or dynamic B...	"88,1819,Aidy"
Override10	Expression	Override and/or dynamic B...	"03,((\ban_controls/tape_id)),NULL"
Override2	Expression	Override and/or dynamic B...	"88,((\ban_controls/Aidyear)),aidy_code"
Override3	String	Override and/or dynamic B...	"88,((\ban_controls/term_fall)),fall_term_code"
Override4	String	Override and/or dynamic B...	"88,((\ban_controls/term_spring))"

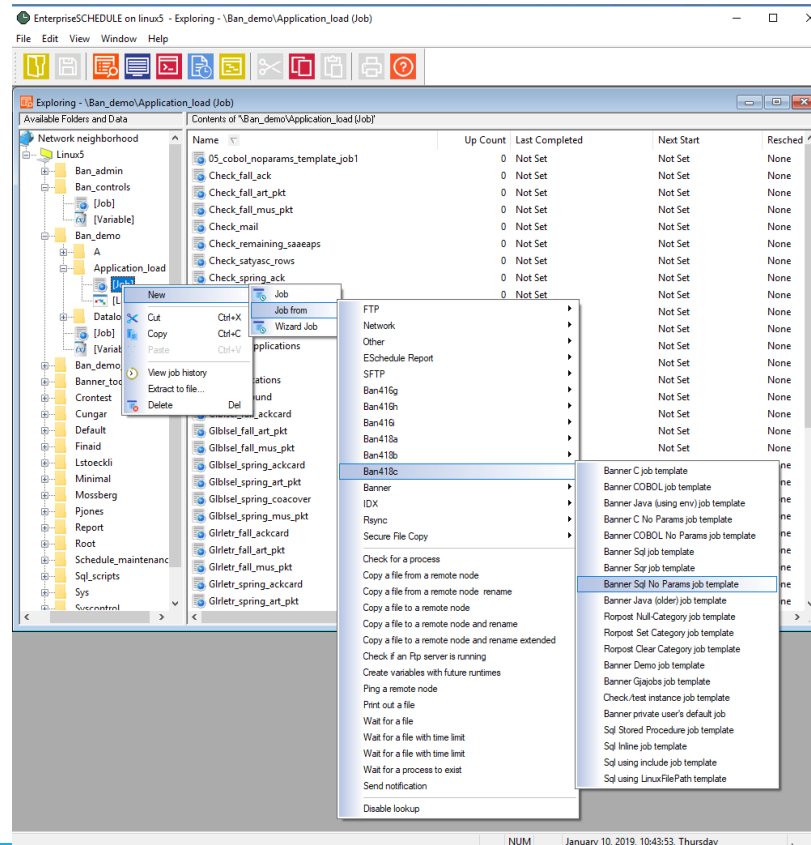
## Examples

- Aid Year
- Term
- Username
- Password/Wallet
- Overrides
- FTP destination

# Banner job creation and implementation example

2

Create/clone a new job from the existing template list



# Banner job creation and implementation example

3

Assign the process/program name

The screenshot shows the EnterpriseSCHEDULE web interface. The browser address bar indicates the URL is `EnterpriseSCHEDULE V7.8.12.20`. The interface has a navigation menu with tabs: Options, General, Settings, Statistics, Parameters, Notifications, Initiates, Prerequisites, Commands, Rescheduling, Resources, End Actions, Submit, Access, Notes, Banner Controls, Banner Output, Banner Overrides, and Oracle Controls. The 'Banner Controls' tab is active. The 'JOB NAME' is `/BAN_DEMO_DATALOAD/006_1516_GLBDATA_COLLEGE_CODE_FH`. The 'Program Info' section contains the following fields:

Banner Job Details:	<input type="text"/>	?
Include Template:	<input type="text" value="/default/ban/Bani_cobol_job"/>	?
Program Name:	<input type="text" value="gldata"/>	?
Parameter Set User:	<input type="text" value="baninst1"/>	?
Parameter Set Name:	<input type="text" value="COLLEGE_CODE_FH"/>	?

The 'Scrape Log Details' section contains the following fields:

Scrape Banner Job Log:	<input checked="" type="checkbox"/>	?	Log File Search preference defined by order of keys:	<input type="checkbox"/>	?
Scrape Banner List File:	<input type="checkbox"/>	?	List File Search preference defined by order of keys:	<input type="checkbox"/>	?

The 'Last Run' section contains the following fields:

Banner Output File:	
Banner SID:	PROD
Cumulative Run Summary log:	/banner/ise/dataload/restran/Dail_banner_jobs_01112016.log
Submitted at:	September 11, 2013, 0:00:00
Started at:	September 11, 2013, 0:00:00
Finished at:	September 11, 2013, 0:00:00
Completion status:	0x00000000

At the bottom of the form are three buttons: Apply, Cancel, and Help.



# Banner job creation and implementation example

4

Assign the parameter set

The screenshot displays the EnterpriseSCHEDULE web interface. The browser title is "EnterpriseSCHEDULE Web Client" and the address bar shows "cw10-dev/ise/Schedule.cgi/ise/modjob.html?H". The page title is "EnterpriseSCHEDULE V7.8.12.20".

The interface features a navigation menu with tabs: Options, General, Settings, Statistics, Parameters, Notifications, Initiates, Prerequisites, Commands, Rescheduling, Resources, End Actions, Submit, Access, Notes, Banner Controls, Banner Output, Banner Overrides, and Oracle Controls. The "Banner Controls" tab is currently selected.

The main content area shows the "JOB NAME: /BAN\_DEMO\_DATALOAD/006\_1516\_GLBDATA\_COLLEGE\_CODE\_FH". Below this, the "Program Info" section contains the following fields:

- Banner Job Details: [Empty text field]
- Include Template: /default/ban/Bani\_cobol\_job
- Program Name: gldata
- Parameter Set User: baninst1
- Parameter Set Name: COLLEGE\_CODE\_FH (highlighted with a blue oval)

The "Scrape Log Details" section includes:

- Scrape Banner Job Log:  Log File Search preference defined by order of keys:
- Scrape Banner List File:  List File Search preference defined by order of keys:

The "Last Run" section displays the following information:

- Banner Output File:
- Banner SID: PROD
- Cumulative Run Summary log: /banner/ise/dataload/restran/Dail\_banner\_jobs\_01112016.log
- Submitted at: September 11, 2013, 0:00:00
- Started at: September 11, 2013, 0:00:00
- Finished at: September 11, 2013, 0:00:00
- Completion status: 0x00000000

At the bottom of the form, there are three buttons: Apply, Cancel, and Help.

# Banner job creation and implementation example

5

Set output file type and actions

The screenshot displays the EnterpriseSCHEDULE web interface. The browser address bar shows the URL: `cv10-dev/ise/Schedule.cgi/ise/modjob.html?H00B38C705F`. The page title is "EnterpriseSCHEDULE V7.8.12.20". A navigation menu at the top includes tabs for Options, General, Settings, Statistics, Parameters, Notifications, and Initiates. Below this, a secondary menu highlights "Banner Controls" among other options like Prerequisites, Commands, Rescheduling, Resources, End Actions, and Submit. The main content area is titled "JOB NAME: /BAN\_DEMO/APPLICATION\_LOAD/CHECK\_SPRING\_MUS\_PKT". Under the "Output Settings" section, the following configuration is visible:

- Output formats:  .log  .lis  .csv  All ?
- Output File Action:  ?
- FTP Server:  ?
- FTP to Path:  ?
- User Name:  ?
- Password:  ?
- Banner List file path:  ?
- Banner CSV file path:  ?
- View in GJIREVO?:  ?

At the bottom of the configuration area are three buttons: "Apply", "Cancel", and "Help".

# Banner job creation and implementation example

6

Optionally drag the job into a layout and connect to other jobs using initiate lines

The screenshot displays the EnterpriseSCHEDULE interface. At the top, a window titled "Exploring - \\Linux5\Ban\_controls (Job)" shows a tree view of folders and data. Below this, a table lists the contents of the job:

Name	Up Count	Last Completed	Next Start	Reschedule
Bani_rpepckg_scrapelog_keys	0	Not Set	Not Set	None
Bani_scrapelis_excludes	0	Not Set	Not Set	None
Bani_scrapelis_keys	0	Not Set	Not Set	None
Zz_node_to_node	0	Not Set	Not Set	None
Bani_scrapelog_excludes	0	May 1, 2018, 14:36:05	Not Set	None
Bani_scrapelog_keys	0	Not Set	Not Set	None
Bani_scrapelog_keys_old	0	Not Set	Not Set	None

Below the table, a workflow diagram is visible. It consists of several rectangular nodes connected by green lines. The nodes include:

- 001\_1516\_roains\_tnull
- 002\_1516\_rctpxr\_th\_dataload\_pt1
- 005\_1516\_rmpm16\_th\_need\_calc16
- 006\_1516\_glbdata\_college\_code\_th
- 007\_1516\_glbdata\_col\_code\_both\_f
- 008\_1516\_rorpost\_nul\_collegath
- 009\_1516\_rorbst\_rorbst1516

There are also two variable nodes at the bottom left:

- !ban\_controls!Override1 = '88,1819,Aids'
- !ban\_controls!Wdyear = 1516

On the right side of the diagram, there is a text box that reads: "This is a list of <keys>/<errors> for scraping the Banner list file. Current State: Idle". Below this, there are three blue buttons with white text:

- Banner Getting Started guide Online
- Getting Started with Banner.pdf
- Details on how to create a Banner Job
- Creating a Banner Job Stream

The status bar at the bottom of the window shows "6 object(s)", "NUM", and "January 11, 2019, 9:42:37, Friday".



**FOOTHILL-DE ANZA**  
**Community College District**

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# EnterpriseSCHEDULE

## at Foothill-De Anza Community College District

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# Foothill-De Anza Community College District Fall 2019 - End of Term Credit Headcount



Gender	Count	Percent
Male	14,768	47.7%
Female	15,817	51.1%
Unrecorded	369	1.2%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Ethnicity	Count	Percent
African American	1,304	4.2%
Asian	11,185	36.1%
Filipino/a	1,842	6.0%
Latino/a	8,512	27.5%
Native American	122	0.4%
Pacific Islander	292	0.9%
White	6,429	20.8%
Unrecorded	1,268	4.1%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Enrollment Status	Count	Percent
First-time Student	4,681	15.1%
First-time Transfer	4,703	15.2%
Returning Student	4,259	13.8%
Continuing	15,394	49.7%
Special Admit (K-12)	1,917	6.2%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Day Eve Status	Count	Percent
Day	28,154	91.0%
Evening	2,800	9.0%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Full/Part-time*	Count	Percent
Full-time	12,190	39.4%
Part-time	18,764	60.6%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

District of Residence^	Count	Percent
Foothill Service Area	3,016	9.7%
De Anza Service Area	4,187	13.5%
San Jose-Evergreen CCD	7,492	24.2%
West Valley-Mission CCD	6,608	21.3%
San Mateo CCD	1,437	4.6%
Gavilan Joint CCD	448	1.4%
Other California CCD	4,459	14.4%
Out of State	3	0.0%
Foreign - F1 and Other	3,304	10.7%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Age	Count	Percent
19 or less	6,932	22.4%
20 - 24	12,919	41.7%
25 - 29	4,511	14.6%
30 - 34	2,270	7.3%
35 - 39	1,407	4.5%
40 - 49	1,471	4.8%
50 - 59	894	2.9%
60 +	546	1.8%
Unrecorded	4	0.0%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Mean Age	Median Age	Modal Age
25.8	22.0	19.0

Highest Education	Count	Percent
Not a HS Grad	417	1.3%
Special Admit (K-12)	1,571	5.1%
Adult School	130	0.4%
HS Diploma	18,295	59.1%
Passed GED	771	2.5%
CA Certificate	316	1.0%
Foreign Secondary	2,705	8.7%
AA/AS	1,176	3.8%
BA/BS or higher	4,805	15.5%
Unrecorded	768	2.5%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

Educational Goal	Count	Percent
Transfer after AA/AS	12,788	41.3%
Transfer without AA/AS	6,486	21.0%
AA/AS	2,628	8.5%
Vocational Degree	71	0.2%
Vocational Certificate	1,087	3.5%
Formulate plans, goals	574	1.9%
New career	971	3.1%
Advance in job	815	2.6%
Maintain certificate/license	319	1.0%
Educational development	1,325	4.3%
Improve basic skills	498	1.6%
Credit for HS or GED	414	1.3%
Undecided	1,234	4.0%
Unrecorded	1,744	5.6%
<b>Total</b>	<b>30,954</b>	<b>100.0%</b>

# Foothill-De Anza Community College District Fall 2019 - End of Term Credit Headcount



City	Count	Percent
San Jose	11,864	38.3%
Sunnyvale	3,097	10.0%
Santa Clara	1,726	5.6%
Mountain View	1,300	4.2%
Cupertino	1,228	4.0%
Palo Alto	927	3.0%
Milpitas	666	2.2%
Los Altos/Los Altos F	610	2.0%
Redwood City	522	1.7%
Fremont	494	1.6%
East Palo Alto	440	1.4%
Saratoga	372	1.2%
Campbell	330	1.1%
San Francisco	306	1.0%
San Mateo	265	0.9%
Los Gatos	256	0.8%
Menlo Park	243	0.8%
Morgan Hill	223	0.7%
San Luis Obispo	208	0.7%
Union City	190	0.6%
Newark	164	0.5%
Gilroy	143	0.5%
Santa Cruz	122	0.4%
Hayward	99	0.3%
San Carlos	99	0.3%
Oakland	92	0.3%
All Other Cities	4,968	16.0%
Total	30,954	100.0%

Attempted Units	Count	Percent
0.00 - 02.9	1,245	4.0%
03.0 - 05.9	9,793	31.6%
06.0 - 08.9	2,539	8.2%
09.0 - 11.9	5,187	16.8%
12.0 - 14.9	6,666	21.5%
15.0 - 17.9	3,354	10.8%
18.0 - 20.9	1,890	6.1%
21.0 +	280	0.9%
Total	30,954	100.0%

## Average Units Attempted

9.58

Note: Attempted Units is defined as all units for which a student is enrolled at census.

Earned Units	Count	Percent
0.00	4,623	14.9%
0.25 - 02.9	1,068	3.5%
03.0 - 05.9	8,896	28.7%
06.0 - 08.9	2,423	7.8%
09.0 - 11.9	4,557	14.7%
12.0 - 14.9	5,091	16.4%
15.0 - 17.9	2,515	8.1%
18.0 - 20.9	1,531	4.9%
21+	250	0.8%
Total	30,954	100.0%

## Average Credits Earned

7.89



**FOOTHILL  
COLLEGE**

# Foothill College – the problem

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The ISIR/CADAA dataload process – a twice a week process – was too time intensive with too many manual steps.

The Foothill College ‘dataloader’ process is actually:

- everything from the step 1 of importing the applications through baseline Banner,
- some institutional steps,
- aid period assignment,
- budgeting assignments,
- all actionable C-codes,
- college specific ‘follow-up’ items,
- all the way to CCPG awarding,
- and an initial email to students.

This is a series of baseline processes, popsels, and RORPOST steps – up to 58 steps – that generally took the better part of a day each time we did it.



# Foothill College – the solution

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ISE allowed our institution to:

- reduce the typical human input to retrieving the file from EdConnect or WebGrants,
- triggering step 1 (we chose to keep step 1 as a manually triggered step),
- working suspense,
- then restarting the sequence.

Overall 5+ minutes, not counting the time to work suspense (a necessary manual process).

# Foothill College – the solution continued

EnterpriseSCHEDULE on ise.fhda.edu - [Exploring - \Fh\_finaid\Dataload\_1920 (Variable)]

File Edit View Window Help

Available Folders and Data Contents of '\Fh\_finaid\Dataload\_1920 (Variable)'

Name	Type	Description	Value	Result
Aidy	String		1920	
Aidy_code	String		1920	
Aidycode	String		1920	
Aidyear	String		1920,aidy_code	
Banpswd	String		MmtWgr9	
Bansid	String		PROD	
Banuser	String		FAOFHC	
Home	String	This is a specific location for ...	\$GURJOBS	
Streamsummfname	String	The Job Stream Log File. Lea...	Finaid_fh_jobs_summary_log_1920	
Streamsummrmt	String	HTM or TXT	HTM	
Streamsummpath	String	Path to Stream Summary file	\$GURJOBS	
Variable1	String			

# Foothill College – the solution continued

EnterpriseSCHEDULE on ise.fhda.edu - [Exploring - \Fh\_finaid\Dataload\_1920 (Job)]

File Edit View Window Help

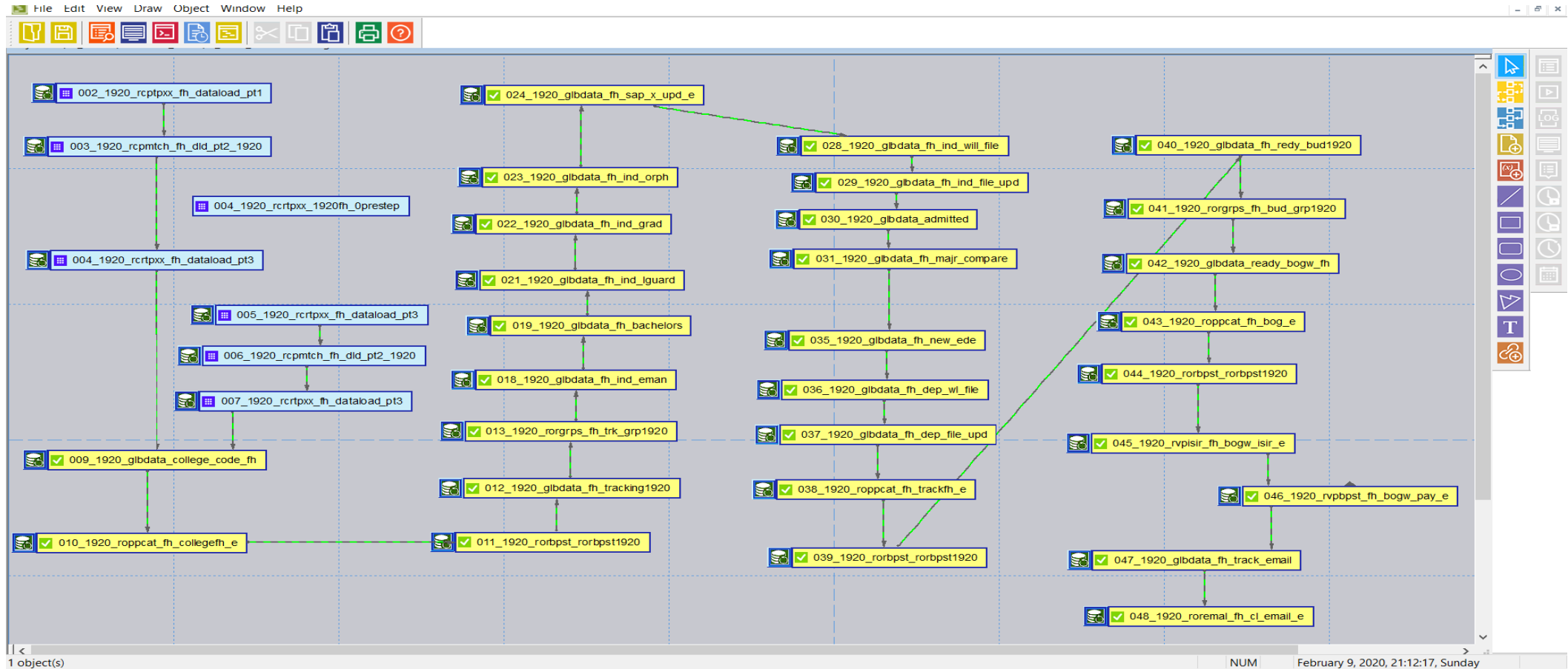
Available Folders and Data Contents of '%Fh\_finaid\Dataload\_1920 (Job)'

Name	Up Count	Last Completed	Next Start	Rescheduling	Status	Average Elapsed
001a_1920_roainst_null_script	5	April 18, 2019, 5:25:19	Not Set	None	0x00358014 E...	
001b_1920_roainst_null	216	April 18, 2019, 5:25:31	Not Set	Named=Tues...	0x00000001 S...	0-00:00:07.000
002_1920_rcrtpxx_fh_dataload_pt1	332	January 30, 2020, 13:19:54	Not Set	None	0x00000001 S...	0-00:00:48.000
003_1920_rcpmtch_fh_dld_pt2_1920	384	January 30, 2020, 13:21:03	Not Set	None	0x00000001 S...	0-00:01:29.000
004_1920_rcrtpxx_1920fh_0prestep	338	August 7, 2018, 18:18:20	Not Set	None	0x00000001 S...	0-00:00:07.000
004_1920_rcrtpxx_fh_dataload_pt3	531	January 30, 2020, 13:22:22	Not Set	None	0x00000001 S...	0-00:03:53.000
005_1920_rcrtpxx_fh_dataload_pt3	486	August 23, 2019, 11:28:17	Not Set	None	0x00000001 S...	0-00:04:07.000
006_1920_rcpmtch_fh_dld_pt2_1920	341	August 23, 2019, 11:27:19	Not Set	None	0x00000001 S...	0-00:01:32.000
007_1920_rcrtpxx_fh_dataload_pt3	486	August 23, 2019, 11:28:17	Not Set	None	0x00000001 S...	0-00:04:07.000
008_1920_rmpfmox_fh_need_calc19	140	February 8, 2018, 10:02:09	Not Set	None	0x08788848 S...	0-00:00:52.000
008a_1920_glbdata_fh_tm_new	158	August 4, 2016, 8:57:14	Not Set	None	0x08788848 S...	0-00:01:17.000
009_1920_glbdata_college_code_fh	484	February 4, 2020, 9:00:39	Not Set	None	0x00000001 S...	0-00:00:50.000
010_1920_roppcat_fh_collegefh_e	334	February 4, 2020, 9:01:36	Not Set	None	0x00000001 S...	0-00:00:28.000
011_1920_rorbpst_rorbpst1920	453	February 4, 2020, 9:02:42	Not Set	None	0x00000001 S...	0-00:00:51.000
012_1920_glbdata_fh_tracking1920	472	February 4, 2020, 9:03:42	Not Set	None	0x00000001 S...	0-00:00:55.000
013_1920_rorgrps_fh_trk_grp1920	447	February 4, 2020, 9:04:43	Not Set	None	0x00000001 S...	0-00:00:29.000
018_1920_glbdata_fh_ind_eman	471	February 4, 2020, 9:05:44	Not Set	None	0x00000001 S...	0-00:00:31.000
019_1920_glbdata_fh_bachelors	469	February 4, 2020, 9:06:56	Not Set	None	0x00000001 S...	0-00:00:36.000
021_1920_glbdata_fh_ind_lguard	466	February 4, 2020, 9:07:57	Not Set	None	0x00000001 S...	0-00:00:31.000
022_1920_glbdata_fh_ind_grad	466	February 4, 2020, 9:08:57	Not Set	None	0x00000001 S...	0-00:00:33.000
023_1920_glbdata_fh_ind_orph	466	February 4, 2020, 9:09:58	Not Set	None	0x00000001 S...	0-00:00:28.000
024_1920_glbdata_fh_sap_x_upd_e	475	February 4, 2020, 9:10:59	Not Set	None	0x00000001 S...	0-00:01:29.000
028_1920_glbdata_fh_ind_will_file	409	February 4, 2020, 9:12:05	Not Set	None	0x00000001 S...	0-00:00:28.000
029_1920_glbdata_fh_ind_file_upd	409	February 4, 2020, 9:13:22	Not Set	None	0x00000001 S...	0-00:00:33.000
030_1920_glbdata_admitted	472	February 4, 2020, 9:14:38	Not Set	None	0x00000001 S...	0-00:01:46.000
031_1920_glbdata_fh_majr_compare	408	February 4, 2020, 9:15:38	Not Set	None	0x00000001 S...	0-00:00:27.000
035_1920_glbdata_fh_new_ede	468	February 4, 2020, 9:16:39	Not Set	None	0x00000001 S...	0-00:00:32.000
036_1920_glbdata_fh_dep_wl_file	408	February 4, 2020, 9:17:40	Not Set	None	0x00000001 S...	0-00:00:27.000
037_1920_glbdata_fh_dep_file_upd	408	February 4, 2020, 9:18:43	Not Set	None	0x00000001 S...	0-00:00:29.000
038_1920_roppcat_fh_trackfh	271	May 28, 2019, 14:41:12	Not Set	None	0x00000001 S...	0-00:00:23.000
038_1920_roppcat_fh_trackfh_e	328	February 4, 2020, 9:19:40	Not Set	None	0x00000001 S...	0-00:00:28.000
039_1920_rorbpst_rorbpst1920	444	February 4, 2020, 9:21:45	Not Set	None	0x00000001 S...	0-00:03:16.000
040_1920_glbdata_fh_redy_bud1920	476	February 4, 2020, 9:23:20	Not Set	None	0x00000001 S...	0-00:00:38.000
041_1920_rorgrps_fh_bud_grp1920	446	February 4, 2020, 9:26:37	Not Set	None	0x00000001 S...	0-00:08:58.000
042_1920_glbdata_ready_bogw_fh	410	February 4, 2020, 9:27:56	Not Set	None	0x00000001 S...	0-00:01:01.000
043_1920_roppcat_fh_bog_e	315	February 4, 2020, 9:28:53	Not Set	None	0x00000001 S...	0-00:00:29.000

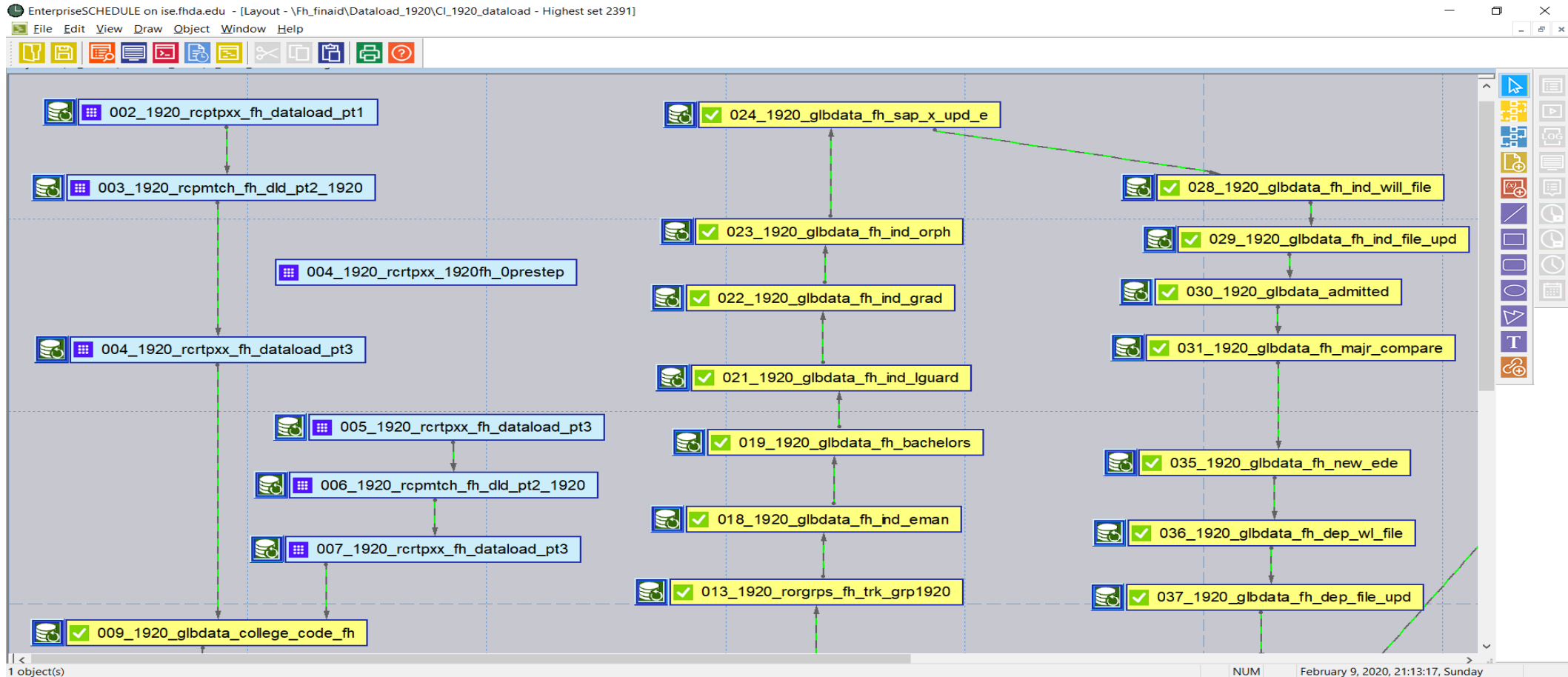
41 object(s)

NUM February 9, 2020, 21:07:14, Sunday

# Foothill College – the solution continued



# Foothill College – the solution, close up



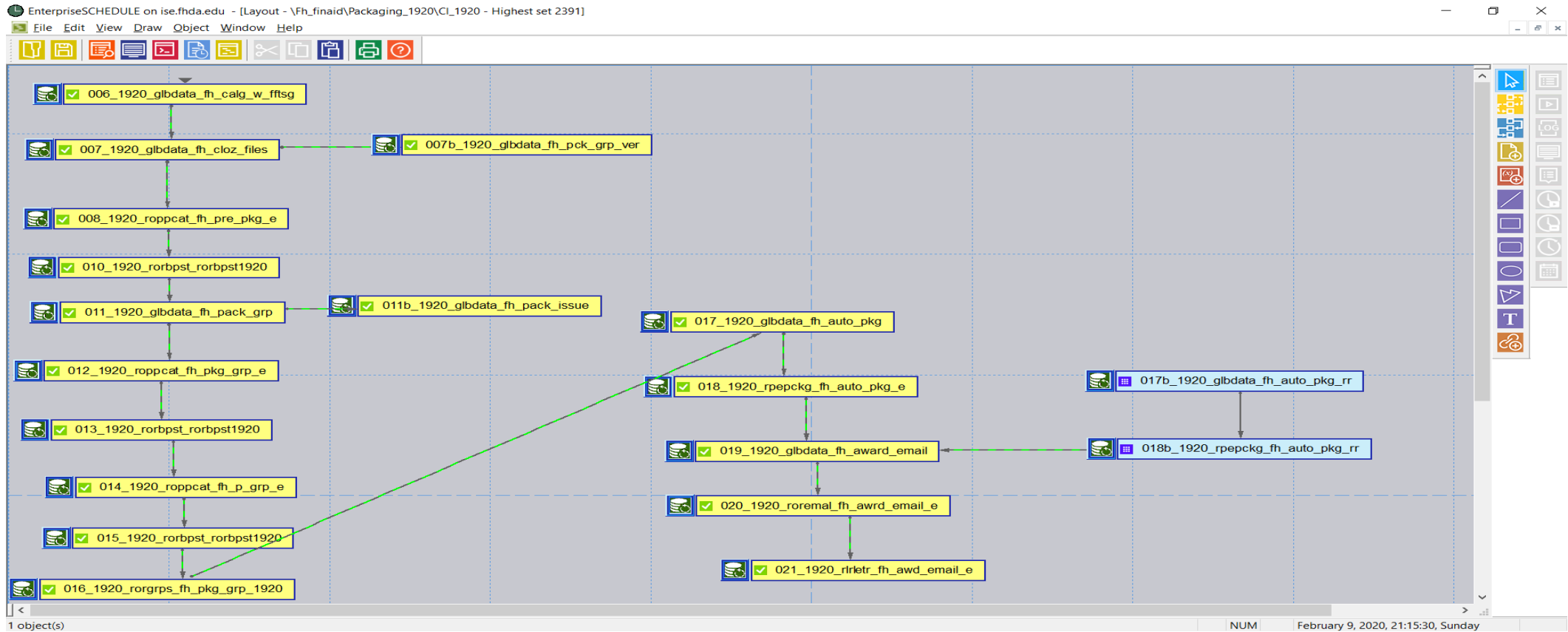
# Foothill College – the expansion

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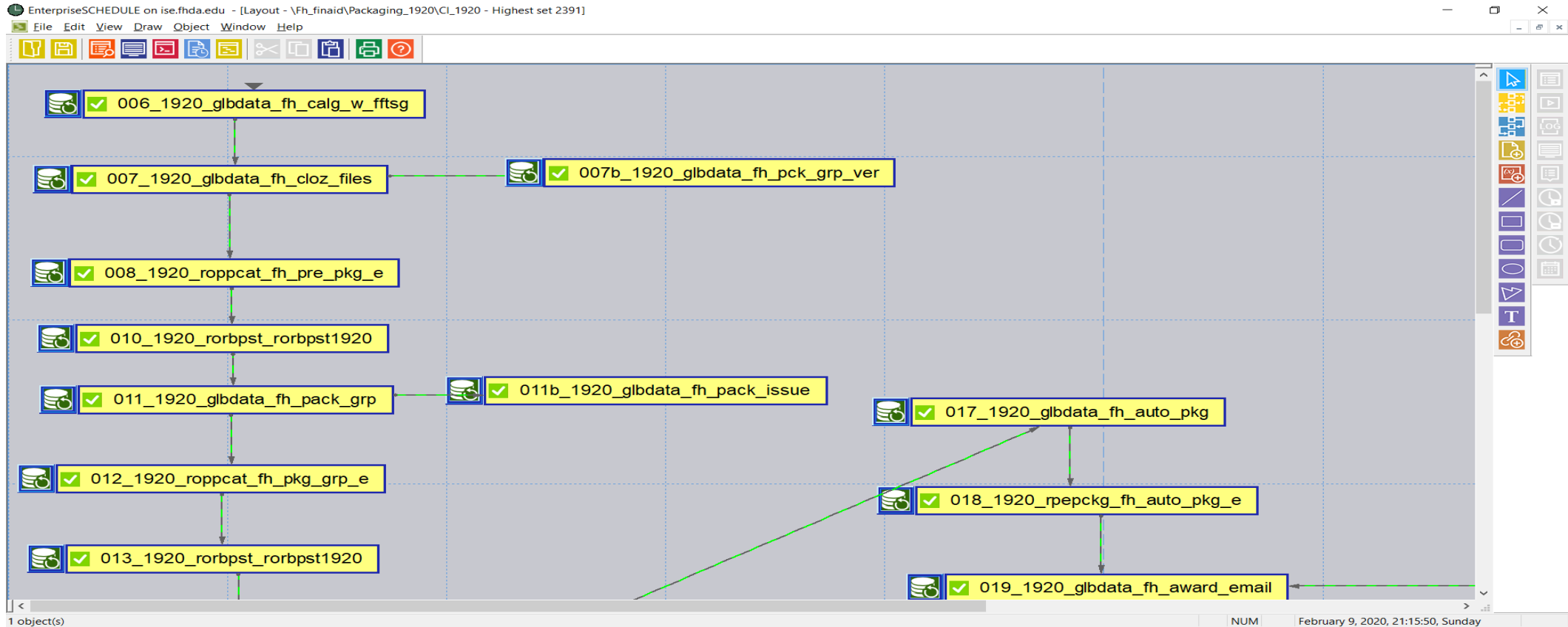
That ‘freedom’ actually allowed our office to build out a second series of processes to:

- take those same files from the CCPG/e-mail to packaging groups,
- SSCG addition,
- running fund packaging groups (if the file is complete),
- and a secondary e-mail indicating the file has been awarded.

# Foothill College – the expansion



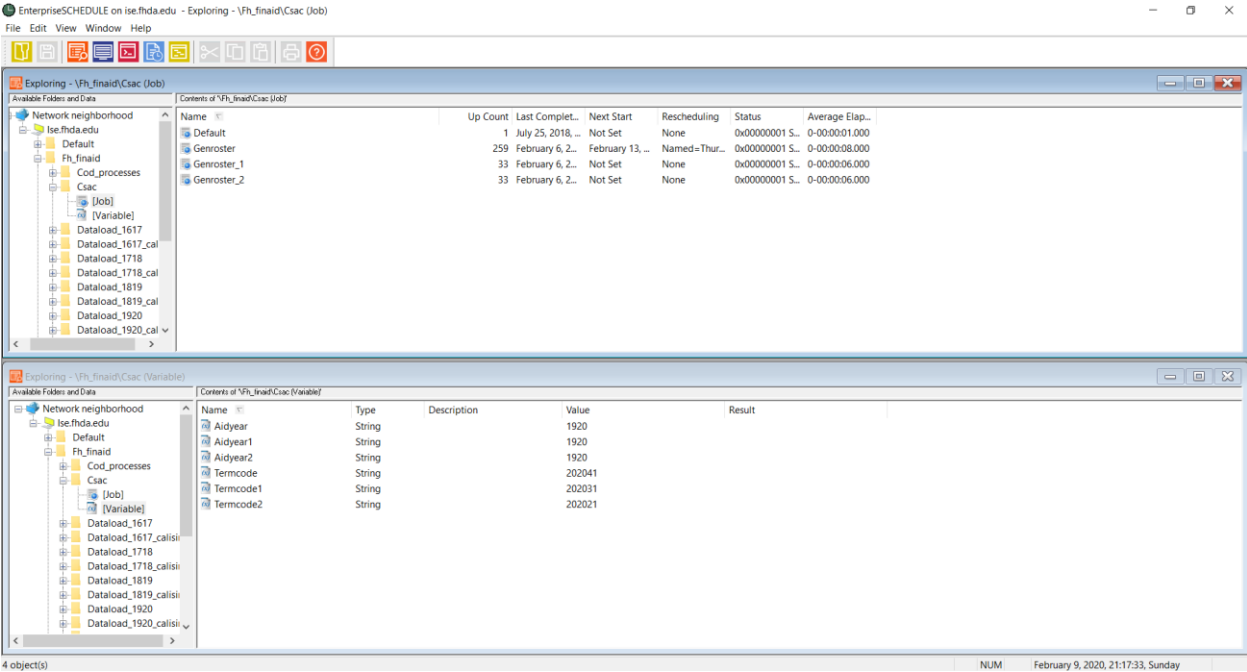
# Foothill College – the expansion, close up





# Foothill College – the expansion continued

We then further built out a process that runs (auto-scheduled) the payment records of the Cal Grant program for batch uploads to WebGrants. Each week it auto runs for each term, providing us with a properly formatted upload file, if any payments occurred for that term during that week.



# Foothill College – the present & near future

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We (Financial Aid Office and our ETS - Tech group) have built out a process that runs an auto-scheduled job through the ISE solution that provides us with a properly formatted upload file of the payment records of the Cal Grant program for batch uploads to WebGrants.

The Foothill Admissions and Records Office has an auto-scheduled job that does the term grade rolls each day after the first run is manually triggered.

The Financial Aid Office and ETS are currently also building out a scheduled program to run our weekly disbursement process at hours with lower system demands. This has had a couple test runs and is nearing completion.

More ideas are 'storyboarded' all the time on how to maximize our usage.



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# Automating Banner at ETS and A&R office using EnterpriseSCHEDULE

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Creating Banner jobs and work streams that automate time consuming and error prone daily tasks using the customized EnterpriseSCHEDULE Job Scheduling application

# ETS (Educational Technology Services) – Implemented ISE in the following areas

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- 1 Chain of Baseline jobs
- 2 On demand SQLs
- 3 Stored procedures
- 4 Cron jobs

# ETS – Chain of Baseline jobs Fee Assessment + Application of Payment Weekly Purge

The screenshot shows the EnterpriseSCHEDULE interface. The left pane displays a tree view of folders, with 'Fee\_apply\_weekly\_purge' expanded to show three jobs: '01\_sfpaud\_fh', '02\_sfpaud\_da', and '03\_tgrapph'. The right pane shows a table of job details.

Name	Up Count	Last Comple...	Next S...	Resch...	Status	Average Ela...	Log File	CLI
01_sfpaud_fh	8	February 16, ...	Febru...	Nam...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:01:40.000		CLI_1
02_sfpaud_da	130	February 16, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:01:25.000		CLI_1
03_tgrapph	129	February 16, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:06:14.000		CLI_1

1. SFPFAUD - Purge Fee Assessment Audit
2. TGRAPPH – Application of Payments Archive History

#

((comment\*))

```
override1="01,"((Termcode_fh)),NULL"
```

```
export override1
```

#

((endcomment\*))

```
override1="02,sysdate,NULL"
```

```
export override1
```

# ETS – Chain of Baseline jobs Grade Roll at A&R Office

EnterpriseSCHEDULE on ise.fhda.edu - [Exploring - \Da\_ar\Grade\_roll\_201912 (Job)]

File Edit View Window Help

Available Folders and Data Contents of ^\Da\_ar\Grade\_roll\_201912 (Job)

Name	Up Count	Last Comple...	Next S...	Resch...	Status	Average Ela...	Log File	CLI
00_soaterm_n_null	411	February 21, ...	Febru...	Nam...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:05.000		CLI_1
00_soaterm_n_null_script	0	June 24, 2017...	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0	0-00:01:00.000		CLI_1
01_shrroll	359	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:01:34.000		CLI_1
02_glaextr_null	359	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:10.000		CLI_1
02_glaextr_null_script	0	June 24, 2017...	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0	0-00:01:00.000		CLI_1
03_glbdata	360	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:02:21.000		CLI_1
04_shrrpts	359	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:59.000		CLI_1
05_szfrpn	359	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:01:06.000		CLI_1
06_shrcgpa_c	359	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:55.000		CLI_1
07_shrcgpa_a	358	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:59.000		CLI_1
08_shrgpac	358	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:59.000		CLI_1
09_soaterm_y_null	358	February 21, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:03.000		CLI_1
09_soaterm_y_null_script	0	June 24, 2017...	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0	0-00:01:00.000		CLI_1
Default	1	July 25, 2018...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:01.000		CLI_1

14 object(s)

NUM February 22, 2020, 8:22:22, Saturday

1. SOATERM\_SCRIPT
2. SHRROLL
3. GLBDATA
4. SHRRPTS
5. SZRFRPN
6. SHRCGPA
7. SHRGPA
8. SOATERM\_SCRIPT
9. Initial run – Manual
10. Follow-up runs - Scheduled

# ETS – On Demand SQLs

## Add Code issue

EnterpriseSCHEDULE on ise.fhda.edu - [Exploring - \Ets\_student\Addcode\_issue (Job)]

File Edit View Window Help

Available Folders and Data

Contents of "\Ets\_student\Addcode\_issue (Job)"

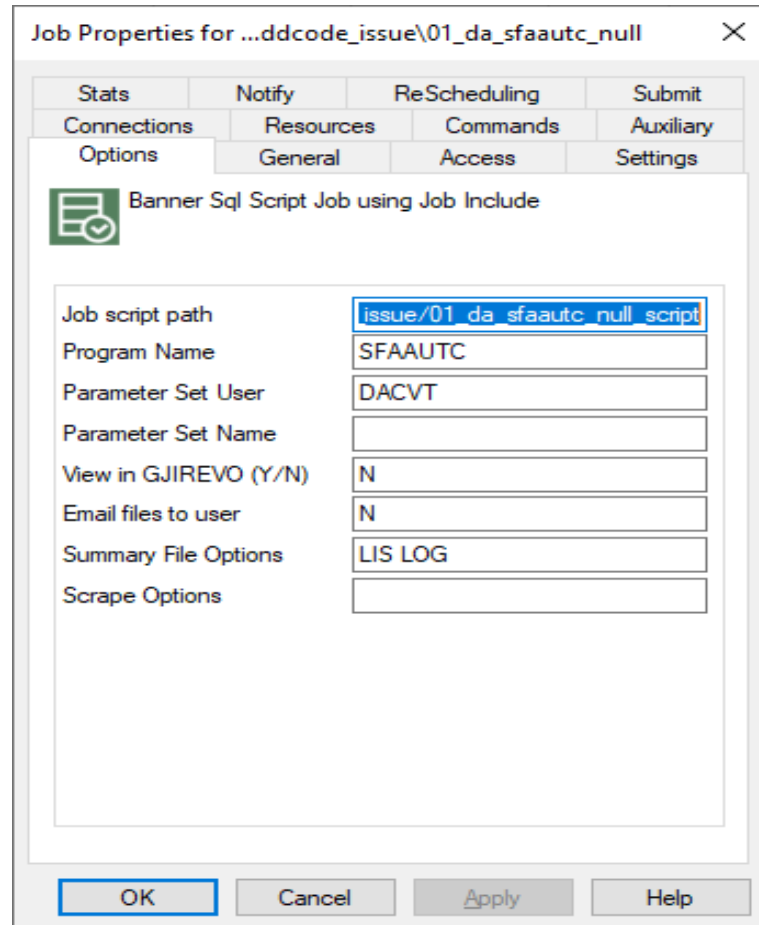
Name	Up Count	Last Comple...	Next S...	Resch...	Status	Average Ela...	Log File	CLI
01_da_sfaautc_null	360	February 21, ...	Febru...	Interv...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:05.000		CLI_1
01_da_sfaautc_null_script	0	Not Set	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0			/bin/bash
02_da_sfasrpo_null	359	February 21, ...	Not Set	Nam...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:04.000		CLI_1
02_da_sfasrpo_null_script	0	Not Set	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0			/bin/bash
03_fh_sfaautc_null	359	February 21, ...	Not Set	Nam...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:05.000		CLI_1
03_fh_sfaautc_null_script	0	Not Set	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0			/bin/bash
04_fh_sfasrpo_null	360	February 21, ...	Not Set	Nam...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:04.000		CLI_1
04_fh_sfasrpo_null_script	0	Not Set	Not Set	None	0x00000000 Fss-X-UNKCOD, Unknown message code 0x0			/bin/bash

8 object(s) NUM February 21, 2020, 16:19:12, Friday

1. SFAAUTC – Registration Add Authorization Codes
2. SFASRPO – Student Registration Permit - Override

# ETS – On Demand SQLs

A pair of jobs to complete one SQL command



1. 01\_da\_sfaautc\_null

2. 01\_da\_sfaautc\_null\_script

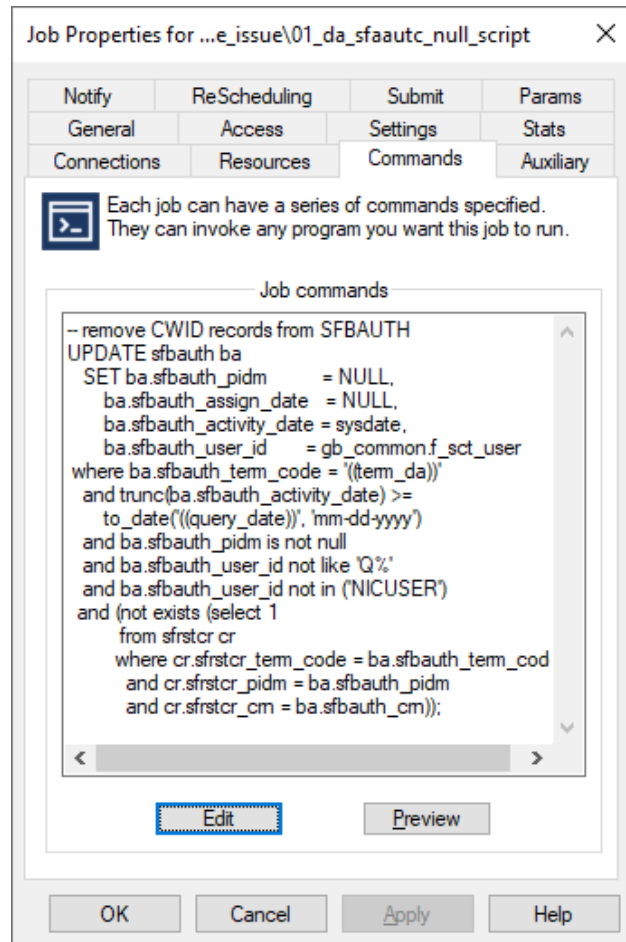
3. The “Job Script Path” of the NULL job is pointing to the “file path” of the NULL\_SCRIPT:

/ets\_student/addcode\_issue/01\_da\_sfaautc\_null\_script



# ETS – On Demand SQLs

## the SQL Statement in the NULL\_SCRIPT job



```
UPDATE sfbauth ba
SET ba.sfbauth_pidm      = NULL,
    ba.sfbauth_assign_date = NULL,
    ba.sfbauth_activity_date = sysdate,
    ba.sfbauth_user_id    = gb_common.f_sct_user
where ba.sfbauth_term_code = '((term_da))'
and trunc(ba.sfbauth_activity_date) >=
to_date('((query_date))', 'mm-dd-yyyy')
and ba.sfbauth_pidm is not null
and ba.sfbauth_user_id not like 'Q%'
and ba.sfbauth_user_id not in ('NICUSER')
and (not exists (select 1
from sfrstcr cr
where cr.sfrstcr_term_code = ba.sfbauth_term_code
and cr.sfrstcr_pidm = ba.sfbauth_pidm
and cr.sfrstcr_crn = ba.sfbauth_crn));
```

# ETS – Stored procedures

## Time Ticket jobs - converted from Cron jobs

EnterpriseSCHEDULE on ise.fhda.edu - [Exploring - \Ets\_student\Time\_ticket\_reg\_term (Job)]

File Edit View Window Help

Available Folders and Data

Contents of "\Ets\_student\Time\_ticket\_reg\_term (Job)"

Name	Up Count	Last Comple...	Next S...	Resch...	Status	Average Ela...	Log File	CLI
Continuing_rt_da_proc	1	February 24, ...	Febru...	Interv...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:32.000		CLI_1
Continuing_rt_fh_proc	1	February 24, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:37.000		CLI_1
Newapp_rt_da_proc	0	February 19, ...	March...	Interv...	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:16.000		CLI_1
Newapp_rt_fh_proc	0	February 19, ...	Not Set	None	0x00000001 SYS-S-NORMAL, Normal successful completion	0-00:00:16.000		CLI_1

4 object(s)

NUM February 24, 2020, 17:25:52, Monday

1. Continuing students
2. New students

# ETS – Stored procedures

## Job script path – Procedure path

The screenshot displays the EnterpriseSCHEDULE Web Client interface. The browser address bar shows the URL: `iseweb.fhda.edu/ise/Schedule.cgi/ise/modjob.html?H00B4CEC3526B735A00004E68+N/Ets_student/Time_ticket_reg_term/Continuing_rt_da_proc+FDJ`. The page title is "EnterpriseSCHEDULE V7.8.14.12".

The interface features a navigation menu with the following tabs: Options, General, Settings, Statistics, Parameters, Notifications, Initiates, Prerequisites, Commands, Rescheduling, Resources, End Actions, Submit, and Access. Below this, there are sub-tabs: Banner Controls, Banner Output, Runtime Values, and Oracle Controls. The "Banner Output" tab is currently selected.

The main content area displays the configuration for a job with the name: `/ETS_STUDENT/TIME_TICKET_REG_TERM/CONTINUING_RT_DA_PROC`. The configuration is organized into three sections:

- Program Info:**
  - Banner Job Details: `Ban418f: Sql Stored Procedure job template`
  - Include Template: `/default/Ban418f/bani_sql_procedure_job`
  - Program Name: `ProcedureName`
  - Job Script Path: `dacvt swkfnx.p_add_fix`
  - Aidyear: `Not Used`
  - Category to clear: `Not Used`
- Scrape Log Details:**
  - Scrape Banner Job Log:  ?
  - Scrape Banner List File:  ?
  - Log File Search preference defined by order of keys:  ?
  - List File Search preference defined by order of keys:  ?
- Last Run:**
  - Banner Output File: `/u01/banjobs/gurjobs/PROD`

# ETS – Stored procedures

## Runtime values

The screenshot shows the EnterpriseSCHEDULE web client interface. The browser address bar displays the URL: `iseweb.fhda.edu/ise/Schedule.cgi/ise/modjob.html?H00B4CEC3526B735A00004E68+N/Ets_student/Time_ticket_reg_term/Continuing_rt_da_proc+FDJ`. The page title is "EnterpriseSCHEDULE V7.8.14.12".

The interface features a navigation menu with the following tabs: Options, General, Settings, Statistics, Parameters, Notifications, Initiates, Prerequisites, Commands, Rescheduling, Resources, End Actions, Submit, Access, Banner Controls, Banner Output, Runtime Values, and Oracle Controls. The "Runtime Values" tab is currently selected.

The main content area displays the job name: `/ETS_STUDENT/TIME_TICKET_REG_TERM/CONTINUING_RT_DA_PROC`. Below this, there is a prompt: "Select a preset runtime variable or enter a custom value".

The "Banner Runtime Parameter Substitutions" section contains a list of 10 rows. The first three rows are populated with preset variables and their corresponding values:

Row	Variable	Value
1:	<code>((term_da_rt+))</code>	202042
2:	<code>((Initialrun_y+))</code>	2020
3:	<code>((Auditrun+))</code>	2020
4:		
5:		
6:		
7:		
8:		
9:		
10:		

An "Override Value" dialog box is open, showing the following details:

- Value:** '202042'
- Comment:** DA Registering Term

# ETS (Educational Technology Services) – Implementing more ISE usage in the following areas

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- 1 Chain of Baseline jobs
- 2 On demand SQLs
- 3 Stored procedures
- 4 Converting Cron jobs
- 5 Web clients



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# Thank you!

## Questions & Comments

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