Best Practices

Project Management

- Project Database
- File Management
 - Programs
 - Data
 - Naming
 - Organization
- Journals
 - Rationale for decisions
 - Ability to go back in time

Project Database

Project Number	2013-14.455	IRT Report	
		Number	
Project Name	Analysis of Transfer Students from Tyler	PC Files /	K:\Projects\2013 - 2014\
	Junior College and Blinn College	Programs	1314-455 TJC and Blinn Analysis.sas
Project Description	Lash into announced with Toler tonion		-
Project Description	Look into agreements with Tyler Junior		1314-455 TJC and Blinn Analysis.xlsx
	College and Blinn College. The first step		
	is to get some data on how many		
	students we are getting from these two		
Requestor	Provost		
Noquestor	Provost	Paper Files	
Assigned	FDK		
	, ·		
Assistance of Data:	44/5/0040	Comments	Sent spreadsheet to Provost
Assignment Date:	11/5/2013		
Expected	11/12/2013		
Completion Date:	11/12/2015		
Completion/	11/6/2013		
Cancellation Date:			
Project Status:	Completed		

File Management

Name	Date modified	Туре	Size
2000 - 2001 Ad Hoc Projects	1/13/2012 12:04 AM	File folder	
2001 - 2002 Ad Hoc Projects	1/13/2012 12:04 AM	File folder	
\mu 2002 - 2003 Ad Hoc Projects	1/13/2012 12:04 AM	File folder	
\mu 2003 - 2004 Ad Hoc Projects	1/13/2012 12:04 AM	File folder	
\mu 2004 - 2005 Ad Hoc Projects	1/13/2012 12:04 AM	File folder	
\mu 2005 - 2006 Ad Hoc Projects	1/13/2012 12:05 AM	File folder	
<u>}</u> 2006 - 2007	1/13/2012 12:06 AM	File folder	
<u>}</u> 2007 - 2008	1/13/2012 12:07 AM	File folder	
<u>}</u> 2008 - 2009	1/13/2012 12:09 AM	File folder	
<u>}</u> 2009 - 2010	1/13/2012 12:12 AM	File folder	
<u>}</u> 2010 - 2011	8/28/2013 11:44 AM	File folder	
<u>}</u> 2011 - 2012	8/28/2013 11:44 AM	File folder	
<u>}</u> 2012 - 2013	12/6/2013 1:47 PM	File folder	
2013 - 2014	1/15/2014 9:48 AM	File folder	
Monthly Summaries	8/28/2013 11:44 AM	File folder	
🖟 Project List	1/15/2014 9:55 PM	File folder	

File Management

Name	Date modified	Туре	Size
l 1314-010 Graduate Exit Survey 2010-11 th	1/15/2014 3:12 PM	File folder	
\mu 1314-043 Loan Debt of EDU Majors	8/28/2013 11:44 AM	File folder	
\mu 1314-110 Academic Advising Survey and	9/5/2013 10:11 AM	File folder	
҇ 1314-163 Enrollment Audit	1/8/2014 9:50 AM	File folder	
\mu 1314-172 Term GPAs of Theater Majors	1/6/2014 8:47 AM	File folder	
\mu 1314-174 Update Net Revenue Model	11/7/2013 9:26 AM	File folder	
\mu 1314-204 Graduates and Leavers, Spring a	11/22/2013 1:05 PM	File folder	
\mu 1314-205 Pre-List of Graduates	11/22/2013 1:10 PM	File folder	
1314-214 LLP Retention Fall 2013	11/22/2013 11:48	File folder	
\mu 1314-216 CLL GPA by Residence Hall, Fal	9/17/2013 9:40 AM	File folder	
\mu 1314-219 NL First Year retention	9/16/2013 10:50 AM	File folder	
📗 1314-221 NL Retention	12/3/2013 11:58 AM	File folder	

Version Control

- Software (Example: Apache Subversion)
- Manually
 - Active and Archive folders
 - Program naming
 - Descriptive Conference Benchmarks SWC.sas
 - Date based Conference Benchmarks 1995-12-31.sas
 - Version based Conference Benchmarks V1.0.sas
- Backups

Program Documentation

• Header Block

- Last Run Time
- Program name and location
- Author
- Purpose
- Inputs
- Output
- Modification history
- Execution instructions (prerequisites)

Program Documentation

- Section descriptions
- Explanation of logic and methods
- References
- Data definitions
- Indention

Programming Environments

TEST

PRODUCTION





Program Validation

- Read the log
 - Errors
 - Warnings
 - Notes
 - Absence of errors is no guarantee of correctness

Program Validation

- Programmer's Cardinal Rule
 - Know Thy Data
 - Understand the business process
- Manually calculate
 - Sample data
 - Multiple scenarios
- Frequency distribution
- Visually look at output
- Compare with historical data

Additional Tips

- Smaller and simpler is better
- Consistency
 - Reusable code (macro programs)
 - Standardized field names
 - Standardized data (when possible)
- Accuracy over speed
 - "Why is there never enough time to do it right but always enough time to do it over?" - Unknown