Caso práctico de SSIS orientado al análisis de datos

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Guatemala SQL Server User Group
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Agradecimiento

- Carlos Robles DBA Mastery & Guatemala SQL Server User Group
- Organizadores y Voluntarios Denver SQL Server User Group
- Todd Kleinhans SQL Accountability Group

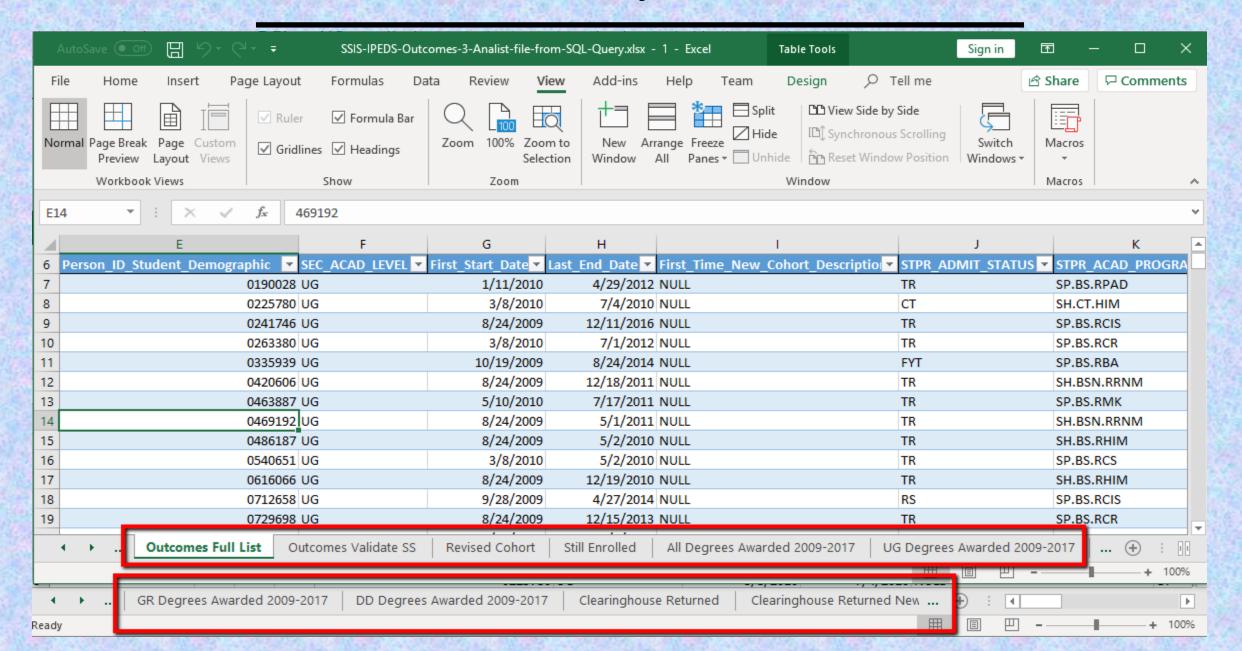
La Fuente de Datos – Su Origen

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1	2	3	4	5
Person_ID_Student_Demog	r SEC_ACAD_LEVEL	First_Start_Date	Last_End_Date	First_Time_New_Cohort_Des
0190028	UG	1/11/2010	4/29/2012	NULL
0225780	UG	3/8/2010	7/4/2010	NULL
0241746	UG	8/24/2009	12/11/2016	NULL
6	7	8	9	10
STPR_ADMIT_STATUS	STPR_ACAD_PROGRAM	STPR_LATEST_START_DATE	STPR_CURRENT_END_DATE	Primary_Program
TR	SP.BS.RPAD	1/11/2010	6/15/2012	SP.BS.RPAD
СТ	SH.CT.HIM	1/11/2010	5/6/2013	SH.CT.HIM
TR	SP.BS.RCIS	8/24/2009	11/1/2013	SP.BS.RCIS
11	12	13	14	15
Start_Date	End_Date	09SU	09FA	10SP
0040158	41094	1/0/1900	1/0/1900	12
0040220	43494.49969	1/0/1900	1/0/1900	3
0040024	42432	1/0/1900	1/6/1900	0
16	17	18	19	20
10SU	Status	SSN	PERSON_USER1	BIRTH_DATE
0000006	Fulltime	111-11-111	SP.MS.ROL:ERLP	21354
0000003	Parttime	111-11-111	SH.CT.HIM	25348
0000000	Parttime	111-11-111	CC.BS.CIS	27980
21	22	23		
Count_SS	Have Pell Grant	NEW/NOT NEW		
NULL	Y	NOT NEW		
NULL	N	NOT NEW		
NULL	N	NOT NEW		

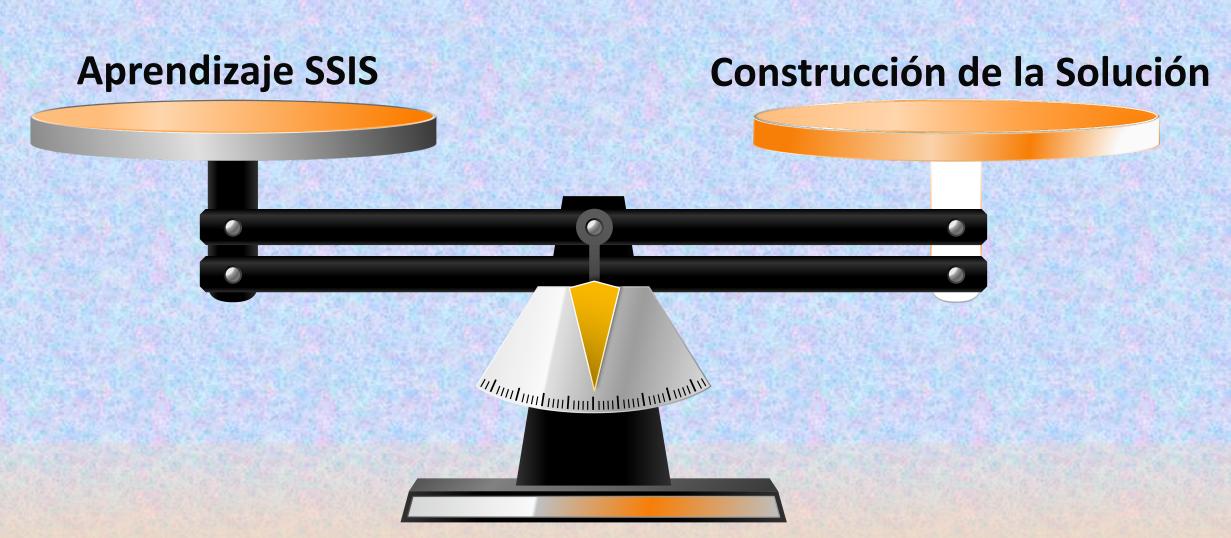
El Resultado Necesario

1	2	3	4	5
First Time(FT)/Non First Time	Full Time (FT)/Part Time (PT)	IPEDS Outcomes Groups	Original/Revised Cohort	UG Degree Awarded 1
NFT	FT	NFTFT	Revised Cohort	BS in Public Administration
NFT	PT	NFTPT	Revised Cohort	BS in Criminology
NFT	PT	NFTPT	Revised Cohort	BS.BA:Management
6	7	8	9	10
UG Degree Awarded 1 Date	UG Degree Awarded 2	UG Degree Awarded 2 Date	GR Degree Awarded	GR Degree Awarded Date
2012-06-15			Ms in Organization Leadershi	2014-04-04
2012-08-31	Certificate.Social Violence	2012-08-31		
2014-08-22			MS:RN to MS Nursing	2014-05-02
11	12	13	14	
DD Degree Awarded	DD Degree Awarded Date	Still Enrolled	Enrolled Elsewhere	
			HEALD COLLEGE - HAYWARD	
DPHAR in Pharmacy	2013-05-03			
			AMERICAN INTERCONTINENT	
				THE PARTY OF THE P

El Problema – Trabajo Manual en Excel



El Desafío Técnico

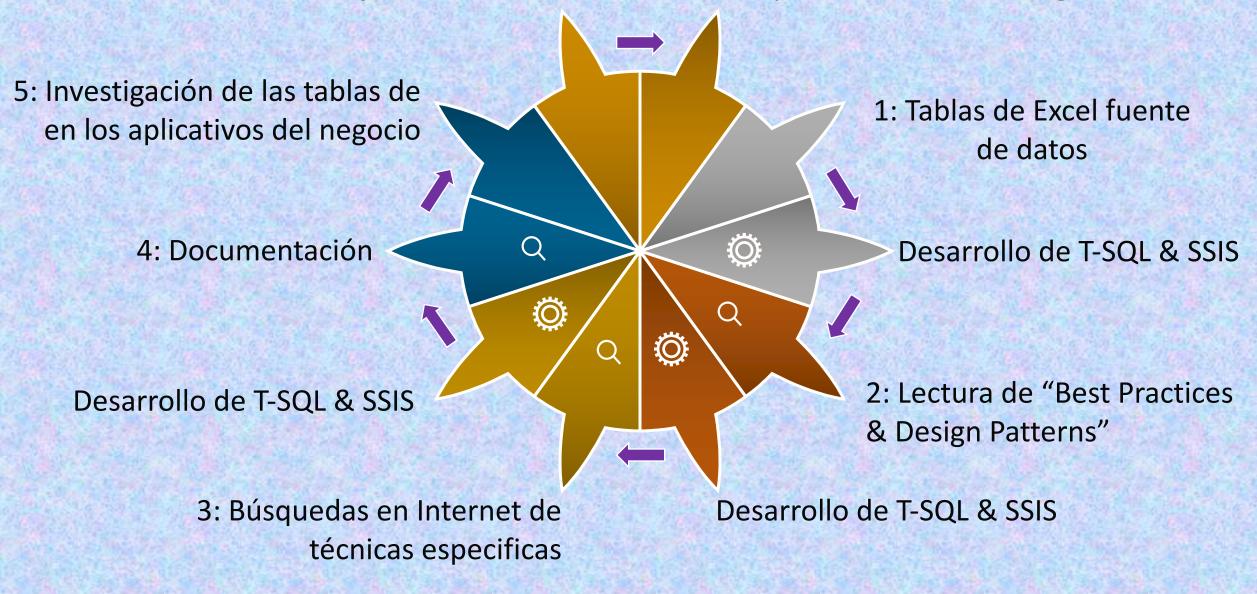


ITIL: Mejora Continua

DevOps: Desarrollo ágil

Mantener el valor ofrecido entre el aprendizaje y el uso del producto

ITIL - Mejora Continua + DevOps - Desarrollo ágil



El Resultado Necesario

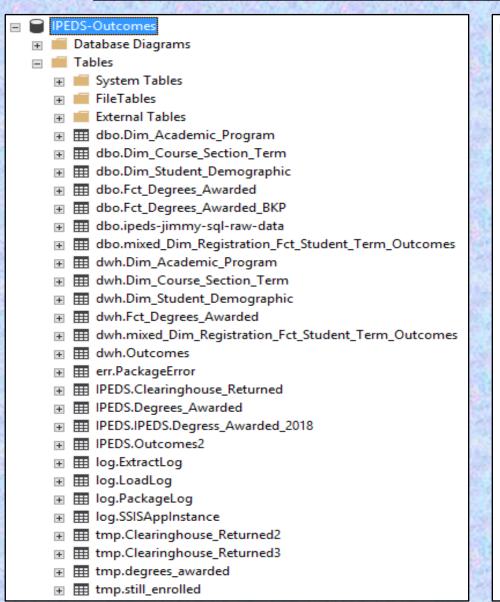
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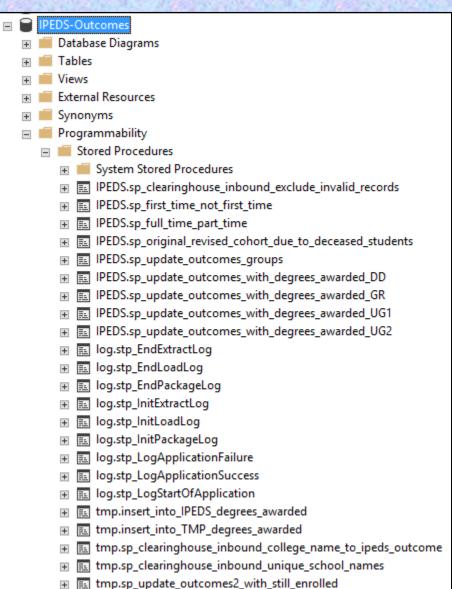
La Solución - Arquitectura

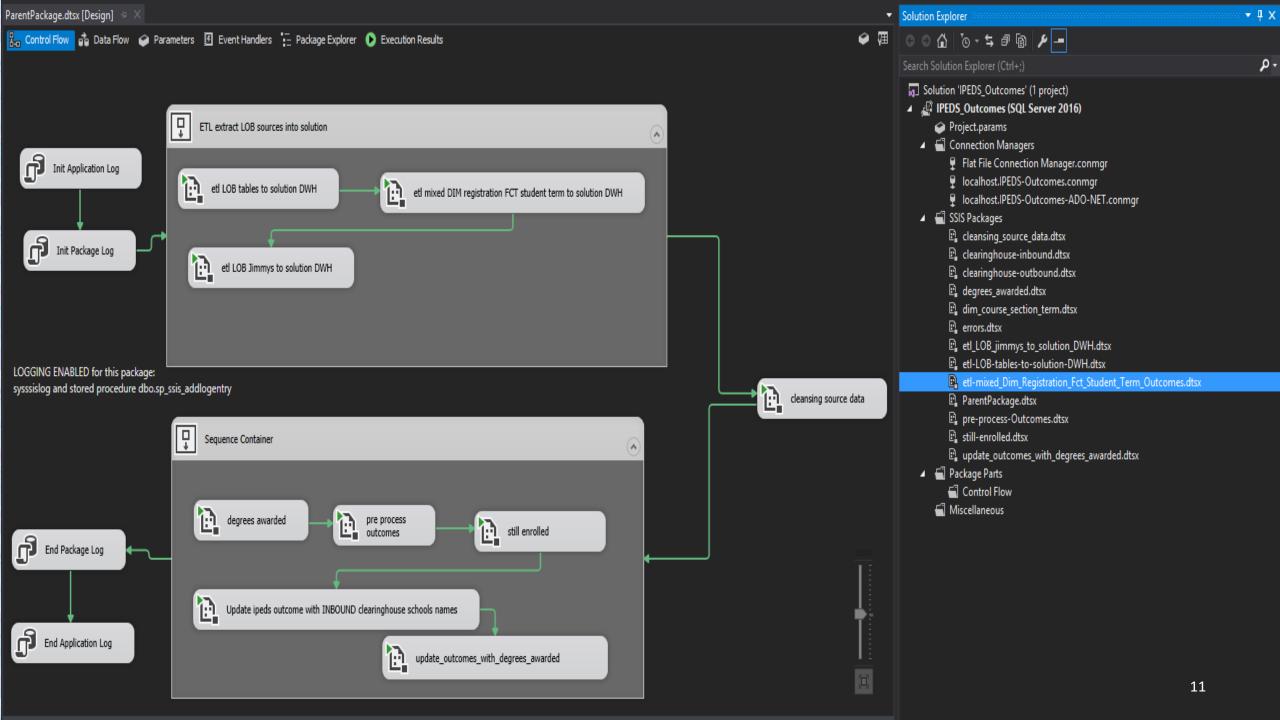
Computadora Personal Dell Laptop G7 15
64-bit
24GB RAM
450 GB SSD (Sistema operativo y máquinas virtuales)
950 GB disco duro (almacenamiento)

Máquina Virtual VMware Workstation 15 Player
16GB asignado
Windows Server 2012
SQL Server 2014
SSIS
SSMS
Visual Studio 2015

La Solución – Base de Datos







Conclusiones y Comentarios Finales

- 1. Encuentra lo que te motiva
 - ☐ Problema relacionado al trabajo
 - ☐ Seguimiento del progreso personal
- 2. Pequeños compromisos y consistencia van muy lejos
 - ☐ 15 minutos/día * 365 días = 91.25 horas
 - ☐ 2 horas/semana * 52 semanas = 104 horas
- 3. Comience creando un paquete plantilla
 - ☐ Seguimiento de errores personalizado
 - ☐ Registro y rastreo nativo de errores de SSIS
 - ☐ Registro de ejecución personalizado (demo)
- 4. Reunir y compartir sus conocimientos con la comunidad

Reconocimiento

- Andy Leonard, Tim Mitchell, Matt Masson, Jessica Moss, and Michelle Ufford
 - SQL Server Integration Services Design Patterns, 2nd Edition, apress
- Andy Leonard Stairway to SSIS: Twenty-One Levels
 - www.sqlservercentral.com/stairways/stairway-to-integrationservices
- Melissa Coates
 - www.sqlchick.com/about-me
- WiseOwlTutorials
 - www.youtube.com/playlist?list=PLNIs-AWhQzcmPg_uV2BZi_KRG4LKs6cRs

Próximos Pasos

- ½ Llevar el código fuente a un repositorio de GitHub en la nube
- ✓ Compartir la solución con mi equipo en mi centro de trabajo
- Preparar una plantilla SSIS de seguimiento de errores personalizado

Gracias por la oportunidad!

Preguntas?