UNIVERSITY ANALYTICS SYSTEM

Priya Verma 2320883

INDEX

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OBJECTIVE

The purpose of our project is to develop an ETL process for effective University management using Informatica Power Center by integrating University data from multiple sources like Students data, Courses data, College data, etc into a centralized system.

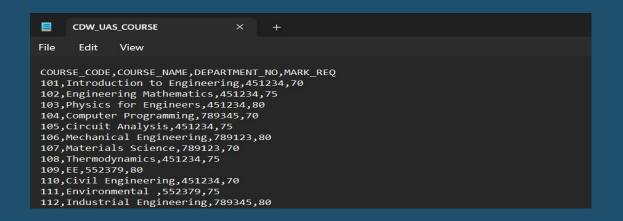
SOURCE FILES

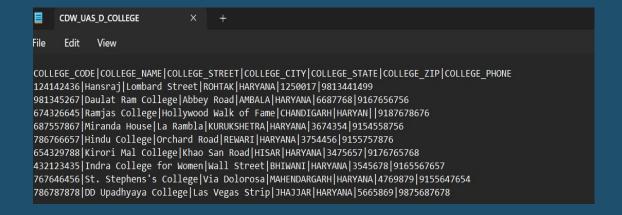
- ☐ CDW_UAS_COURSE
- ☐ CDW_UAS_D_COLLEGE
- ☐ CDW_UAS_DEPARTMENT
- ☐ CDW_UAS_FACULTY
- ☐ CDW_UAS_Student
- ☐ RESULT_DETAILS_STUDENTS

Name	Date modified	Туре	Size
CDW_UAS_COURSE	3/24/2024 10:37 AM	Text Document	2 KB
CDW_UAS_D_COLLEGE	3/24/2024 10:37 AM	Text Document	1 KB
CDW_UAS_DEPARTMENT	3/24/2024 10:37 AM	Text Document	1 KB
CDW_UAS_FACULTY	3/24/2024 10:37 AM	Text Document	3 KB
CDW_UAS_Student	3/24/2024 11:56 AM	Microsoft Excel Co	21 KB
RESULT_DETAILS_STUDENTS	3/24/2024 11:55 AM	Microsoft Excel Co	10 KB

CDW UAS COURSE:-

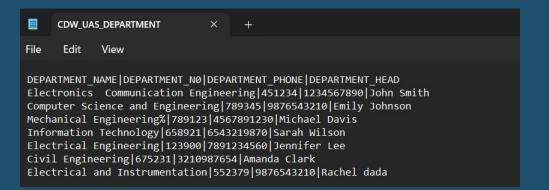
CDW_UAS_D_COLLEGE:-

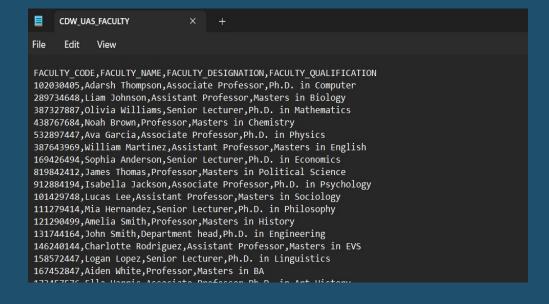




CDW UAS DEPARTMENT:-

CDW_UAS_FACULTY:-





CDW UAS Student:-

A D G Н K L M N 0 FIRST_NAMMIDDLE_N LAST_NAMROLL STREET_N APT_NO STUD_CIT'STUD_STA STUD_COLSTUD_ZIP STUD_PHC STUD_EMAIL 2 Alice Spencer Dan 1001 Maple Stre 101 Beverly Hil California INDIA 98101 1.23E+09 alice.john@gmail.com Miller Bob Joe 1002 Elm St 102 San Diego California USA 89101 5.56E+09 bob.daniel@gmail.com Charlie Williams 1003 Maple St 103 San Franci California USA 10001 5.56E+09 charlie.williams@gmail.com Dsouza Olivia Head Brown 1004 Oak St 104 San Franci California USA 78753 5.55E+09 olivia.brown@gmail.com Emily Black Garcia 1005 Pine St 105 Los Angele California USA 33133 5.55E+09 emily.garcia@gmail.com Pale Miller Liam 1006 Cedar St 106 Los Angele California USA 85001 5.55E+09 liam.miller@gmail.com 8 Ava Paine Davis 1007 Birch St 107 New York New York USA 80201 5.56E+09 ava.davis@gmail.com 9 Sophia Hood Robinson 1008 Willow St 108 New York New York USA 60601 5.56E+09 sophia.robinson@gmail.com 10 Isabella Jose Clark 1009 Poplar St 109 Buffalo California USA 53201 5.56E+09 isabella.clark@gmail.com 11 Charlotte Will Lewis 110 Buffalo California USA 97201 5.56E+09 charlotte.lewis@gmail.com 1010 Sycamore

RESULT_DETAILS_STUDENTS:-

4	Α	В	С	D	Е	F	G	Н	1	J	K	L
1	ROLL	DEPARTM	COLLEGE_	COURSE_C	FACULTY_	RESULT_M	ARKS					
2	1001	451234	Hansraj	101	1.02E+08	60						
3	1002	789345	Daulat Rar	102	2.9E+08	70						
4	1003	789123	Daulat Rar	103	3.87E+08	80						
5	1004	658921	Ramjas Co	104	4.39E+08	90						
6	1005	123900	Miranda H	105	5.33E+08	50						
7	1006	675231	Hindu Coll	106	3.88E+08	40						
8	1007	552379	Kirori Mal	107	1.69E+08	70						
9	1008	451234	Indra Colle	108	8.2E+08	80						
10	1009	789345	St. Stepher	101	9.13E+08	90						
11	1010	789123	DD Upadh	102	1.01E+08	99						
12	1011	658921	Hansraj	103	1.11E+08	58						
13	1012	123900	Daulat Rar	104	1.21E+08	74						
14	1013	675231	Daulat Rar	105	1.46E+08	35						
15	1014	552379	Ramias Co	106	1.59F+08	89						

REQUIREMENTS

☐ Requirement 1:-

Student Dimension – The Student dimension table *CDW_UAS_D_STUDENT_EFF_DATE* is a Type – II SCD table which contains all students' information. The source file's name is *CDW_UAS_student.csv*. The source sends the file on a daily basis. History of the students' needs to be maintained in the table.

☐ Requirement 2:-

College Dimension - The College dimension table *CDW_UAS_D_COLLEGE* is a Type – I SCD which contains all college details. *Data is added to this table, only when a new college is being opened.* So, the load schedule would be *on demand*. The source file's name is *CDW_UAS_COLLEGE.txt* and it is pipe (|) delimited. The table is updated/ inserted for old/ new branches respectively and no history is maintained

☐ Requirement 3:-

Department Dimension - The Department dimension table *CDW_UAS_D_DEPARTMENT* is a Type – I SCD table which contains all the departments' information. The source file's name is *CDW_UAS_DEPARTMENT.txt* and it is pipe (|) delimited. The table is updated/inserted for old/new suppliers respectively on a daily basis and no history is maintained.

☐ Requirement 4:-

Course Dimension - The course dimension table CDW_UAS_D_COURSE is a Type – I SCD which contains all course information. The source file's name is CDW_UAS_COURSE.txt and it is comma (,) delimited. This table is dependent on the Department table for the Department Id. The department table must contain the respective department information before loading course table. The table is updated/inserted for old/new products respectively on a daily basis and no history is maintained.

ПЪ	equire	ment	Б
П Т/	-cdarre	IIICIII	J

Faculty Dimension - The faculty dimension table *CDW_UAS_D_FACULTY* is a Type – I SCD which contains all faculty details. The source file's name is *CDW_UAS_FACULTY.txt* and it is comma (,) delimited. The table is updated/ inserted for old/ new branches respectively and no history is maintained

☐ Requirement 6:-

Results Staging - The results staging table *CDW_STG_RESULT* receives the results data from the different evaluation centers *RESULT_DETAILS_STUDENTS.csv*. The information from different files is standardized in the staging table. The data is loaded with all related dimension information from the respective dimension tables in the warehouse.

☐ Requirement 7:-

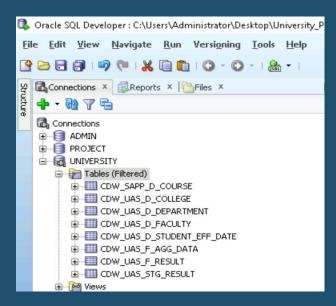
Results Fact - The results fact table *CDW_UAS_F_RESULTS* contains all the transactions loaded from the staging table *CDW_STG_RESULTS*. This table is loaded only after the staging table has been loaded completely from the transaction files arriving from all the different centers.

☐ Requirement 8:-

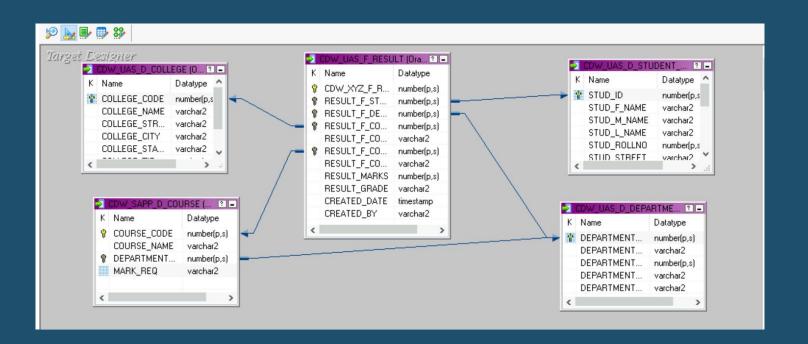
Results Aggregate - The Sales Aggregate table *CDW_UAS_F_AGG_DATA* pulls data from the Results fact table *CDW_UAS_F_RESULTS*. The table is aggregated by college_code &course_code .

DESIGN TARGET AND DEVELOPMENTS

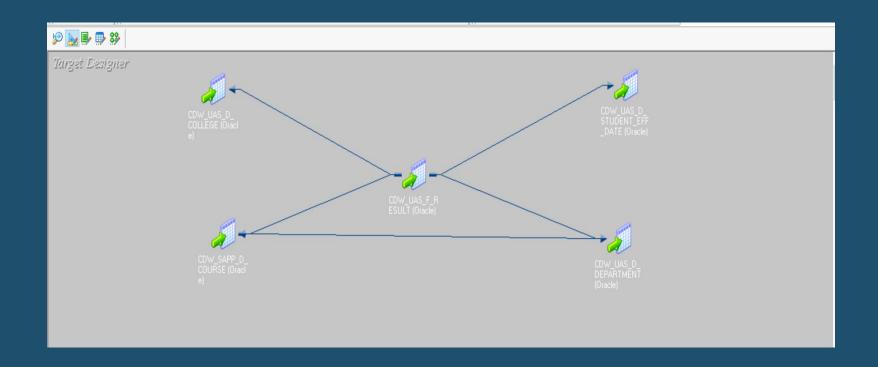
As per the requirements I have created target tables in sql developer as shown below:-



DATA MODELING



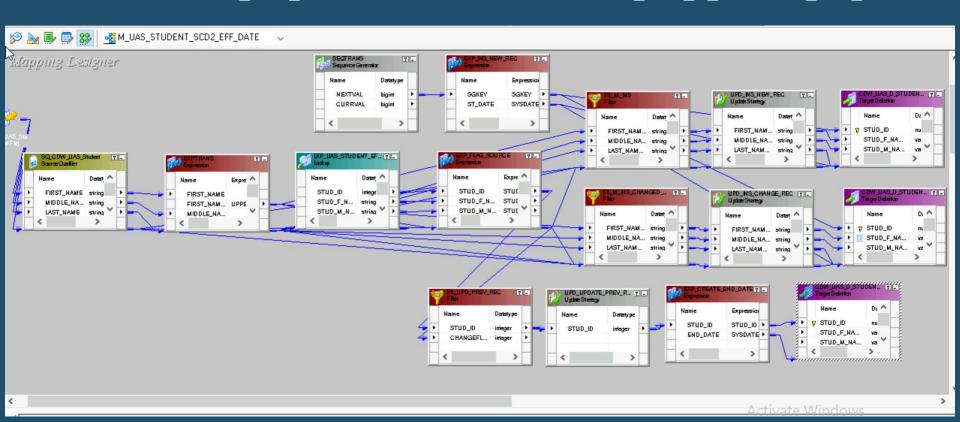
ICONIZE DATA MODEL:-



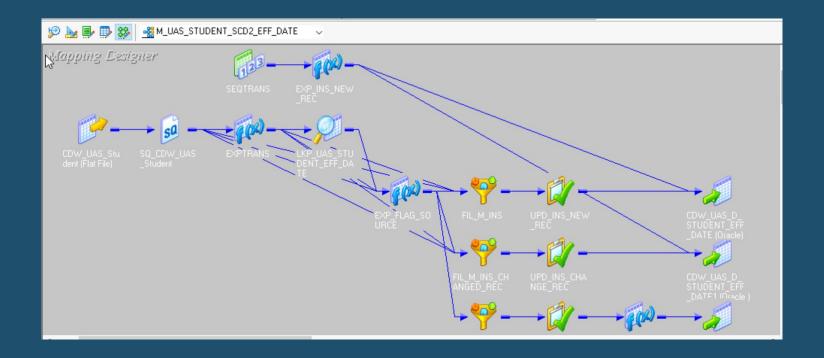
Mapping 1:-

CDW_UAS_student.csv _____

CDW_UAS_D_STUDENT_EFF_DATE



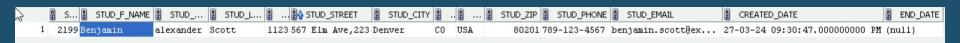
Iconize Mapping 1:-



OUTPUT M1:-

سيا															
Script	t Output 🗴 🕟 Qu	Jery Result X													
		etched 50 rows		onds											
	2 2 STUD	. STUD	g STU	A A :	STUD_STR	STUD_CITY	g st	8 S	S STUD_PHONE	STUD_EMAIL	2 CREATE	D_DATE		END_DA	TE
1	2199 Benjamin	alexander	Scott	1123 567	Elm A	Denver	СО	USA	80201 789-123-4567	benjamin.scott@example.com	27-03-24	09:30:47.00	00000000	PM (null)	^
2	2200 Amelia	luna	Green	1124 789	Pine	Washington	DC	USA	20001 891-234-5678	amelia.green@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
3	2201 Elijah	james	Adams	1125 123	0ak A	Memphis	TN	USA	38101 123-456-7890	elijah.adams@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
4	2202 Gabriel	oliver	Baker	1126 789	Cedar	Boston	MA	USA	2101 234-567-8910	gabriel.baker@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
5	2203 Aria	chloe	Nelson	1127 123	Maple	Baltimore	MD	USA	21201 345-678-9123	aria.nelson@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
6	2204 Julian	ethan	Hill	1128 456	Cedar	Nashville	TN	USA	37201 456-789-1234	julian.hill@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
7	2205 Scarlett	avery	Ramirez	1129 789	Elm A	Louisville	KY	USA	40201 567-891-2345	scarlett.ramirez@example.co	m 27-03-24	09:30:47.00	00000000	PM (null)	
8	2206 Levi	jack	Mitc	1130 901	Pine	Milwaukee	WI	USA	53201 678-912-3456	levi.mitchell@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
9	2207 Mila	charlotte	Perez	1131 234	0ak A	Portland	0R	USA	97201 789-123-4567	mila.perez@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
10	2208 Hazel	aria	Roberts	1132 567	Cedar	Oklahoma	0K	USA	73101 891-234-5678	hazel.roberts@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
11	2209 Liam	oliver	Turner	1133 789	Maple	Las Vegas	NV	USA	89101 123-456-7890	liam.turner@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
12	2210 Mateo	logan	Phil	1134 901	Elm A	Albuquerque	NM	USA	87101 234-567-8910	mateo.phillips@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
13	2211 Zoe	layla	Camp	1135 123	Pine	Tucson	AZ	USA	85701 345-678-9123	zoe.campbell@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
14	2212 Daniel	jose	Parker	1136 456	0ak A	Fresno	CA	USA	93701 456-789-1234	daniel.parker@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
15	2213 Riley	audrey	Evans	1137 789	Maple	Sacramento	CA	USA	95801 567-891-2345	riley.evans@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
16	2214 Jackson	ayden	Collins	1138 901	Elm A	Long Beach	CA	USA	90801 678-912-3456	jackson.collins@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
17	2215 Isaac	john	Stewart	1139 123	Pine	Kansas City	MO	USA	64101 789-123-4567	isaac.stewart@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
18	2216 Eleanor	grace	Sanchez	1140 456	0ak A	Mesa	AZ	USA	85201 891-097-2346	eleanor.sanchez@example.com	27-03-24	09:30:47.00	00000000	PM (null)	
19	2217 John	avden	Smith	1141 123	Main	Citvville	CA	USA	12345 155-512-3488	iohn.smith@email.com	27-03-24	09:30:47.00	00000000	PM (null)	~
d: C:\Use	ers\Administrator\De:	sktop\Universi	ty Project\Ui	niversity_Pr	oject\Target	queries.sql					Line 13 Column 25	Insert	Modified	Windows: CR/LF	Editing

OUTPUT M1 SCD2 EFFECT:-



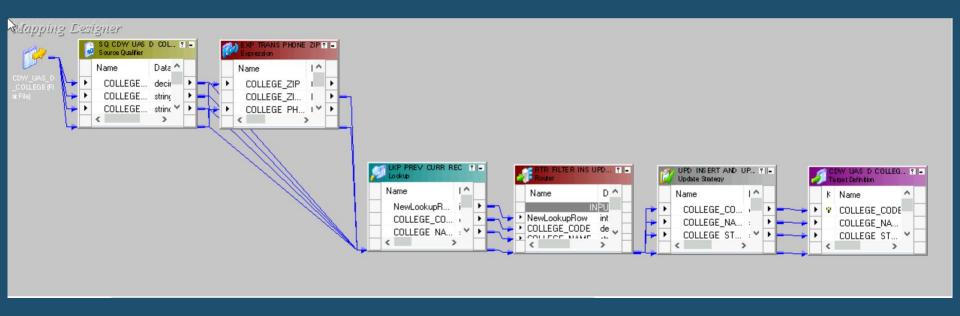
Status					Succeeded					V
▼ Source/Target Statis	stics									
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last Error Code	Last Error Message	Start Time
CDW_UAS_D_S	node01	0	0	0	0	0		0	No errors encountered.	27-03-2024 2
- Q CDW_UAS_D_S	node01	0	0	0	0	0		0	No errors encountered.	27-03-2024 2
- Q CDW_UAS_D_S	node01	0	0	0	0	0		0	No errors encountered.	27-03-2024 2
SQ SQ_CDW_UAS	node01	201	201	0	201	64722	64722	0	No errors encountered.	27-03-2024 2

1 2199 Benjamin alexander Scott 567 Elm Ave,223 Denver C0 USA 80201 789-123-4567 benjamin@rexample.com 27-03-24 09:30:47.000000000 PM 27-03-24 2278 Benjamin alexander Scott 567 Elm Ave,223 Denver C0 USA 80201 789-123-4567 benjamin.scott@example.com 27-03-24 10:03:27.000000000 PM (null)	P	STUD_ID 2 STUD_F	g stud_m	g st	A .	g st	UD_STREET	STUD	. A S	A .	A	STUD_ZIP	STUD_PH	ONE	STUD_EMAIL	2 CREATED_DATE	A	END_DATE
2 2278 Benjamin alexander Scott 567 Elm Ave,223 Denver CO USA 80201 789-123-4567 benjamin.scott@example.com 27-03-24 10:03:27.000000000 PM (null)	1	2199 Benjamin	alexander	Scott		567 E	Elm Ave,223	Denver	CO	USA		80201	789-123-4	567	benjaminGrexample.com	27-03-24 09:30:47.000000000	PM 27	-03-24
	2	2278 Benjamin	alexander	Scott		567 E	Elm Ave,223	Denver	CO	USA		80201	789-123-4	567	benjamin.scott@example.com	27-03-24 10:03:27.000000000	PM (n	ull)

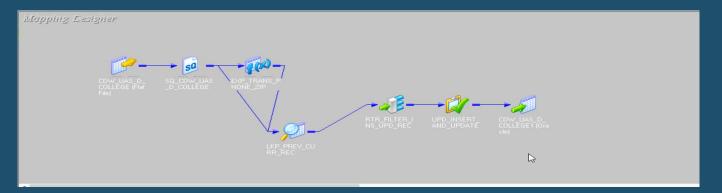
Source/Target Statis	stics									
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last Error Code	Last Error Message	Start Time
CDW_UAS_D_S	node01	0	0	0	0	0		0	No errors encountered.	27-03-2024 2
🐔 CDW_UAS_D_S	node01	1	1	0	1	349	349	0	No errors encountered.	27-03-2024 2
	node01	1	1	0	1	24	24	0	No errors encountered.	27-03-2024 2
SQ SQ_CDW_UAS	node01	201	201	0	201	64722	64722	0	No errors encountered.	27-03-2024 2
SQ SQ_CDW_UAS	node01	201	201	0	201	64722	64722	0	No errors encountered.	27-03-202

Mapping 2:-

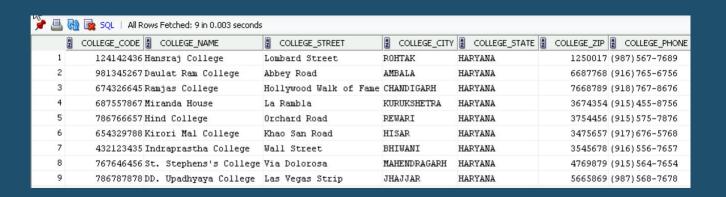
CDW_UAS_COLLEGE.txt_____ CDW_UAS_D_COLLEGE



Iconize Mapping 2:-



OUTPUT M2:-



OUTPUT M2 SCD1 EFFECT:-

Source/Target Statistics										
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last Error Code	Last Error Message	Start Time
CDW_UAS_D_C	node01	0	0	0	0	0		0	No errors encountered.	27-03-2024 2
SQ SQ_CDW_UAS	node01	9	9	0	9	1314	1314	0	No errors encountered.	27-03-2024 2

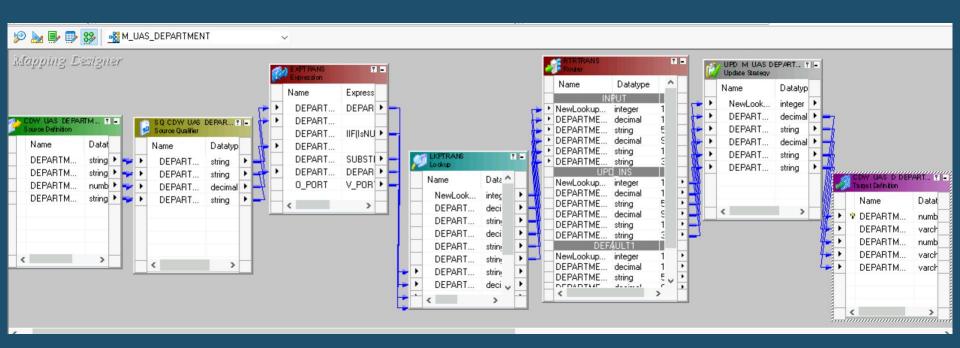
F	COLLEGE_CODE	COLLEGE_NAME	COLLEGE_STREET	2 COLLEGE_CITY	2 COLLEGE_STATE	🖁 COLLEGE_ZIP 📳 COLLEGE_PHO	NE
1	124142436	Hansraj College	Lombard Street	ROHTAK	HARYANA	1250017 (987) 567-7689	

Source/Target Statistics										
Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Bytes	Last Error Code	Last Error Message	Start Time
CDW_UAS_D_C	node01	1	1	0	1	149	149	0	No errors encountered.	28-03-2024
SQ SQ_CDW_UAS	node01	9	9	0	9	1314	1314	0	No errors encountered.	28-03-2024

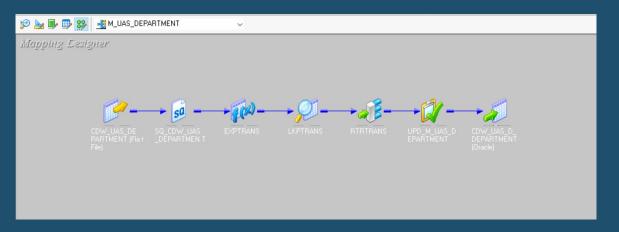


CDW_UAS_DEPARTMENT.txt

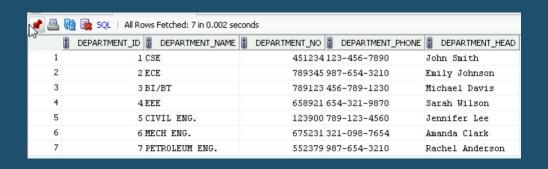
CDW_UAS_D_DEPARTMENT



Iconize Mapping 3:-

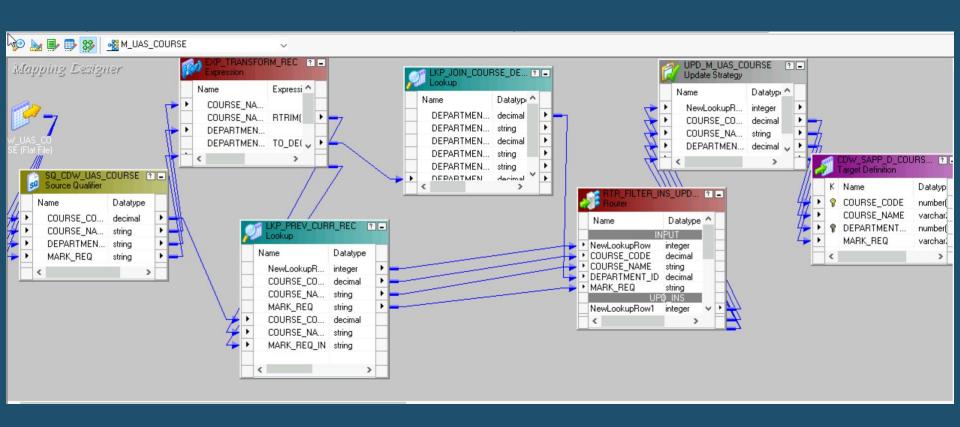


OUTPUT M3:-

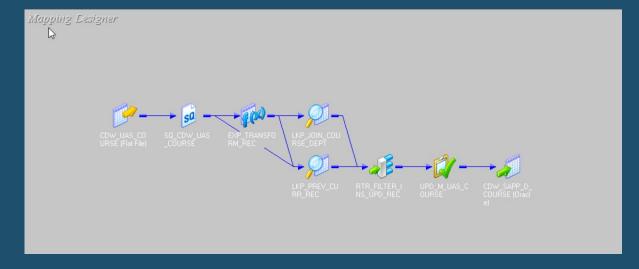


CDW UAS COURSE.txt

CDW UAS D COURSE



Iconize Mapping 4:-

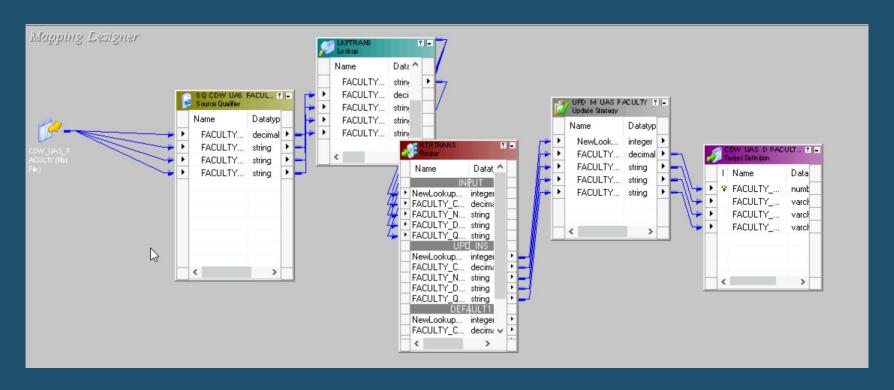


OUTPUT M4:-

	COURSE_CODE	② COURSE_NAME	DEPARTMENT_ID	MARK_REQ
1	101	Introduction to Eng.	1	70
2	102	Engineering Maths.	1	70
3	103	Physics for Eng.	1	70
4	104	Computer Prog.	2	70
5	105	Circuit Analysis	1	70
6	106	Mechanical Eng.	3	70
7	107	Materials Science	3	70
8	108	Thermodynamics	1	70
9	109	Electrical Eng.	7	70
10	110	Civil Eng.	1	70
11	111	Environmental Eng.	7	70
12	112	Industrial Eng.	2	70
13	113	Eng. Design	7	70
14	114	Control Systems	2	70
15	115	Robotics	7	70
16	116	Biomedical Eng.	2	70
17	117	Aerospace Eng.	7	70
18	118	Chemical Eng.	2	70

CDW UAS FACULTY.txt

CDW UAS D FACULTY



Iconize Mapping 5:-

Mapping Designer

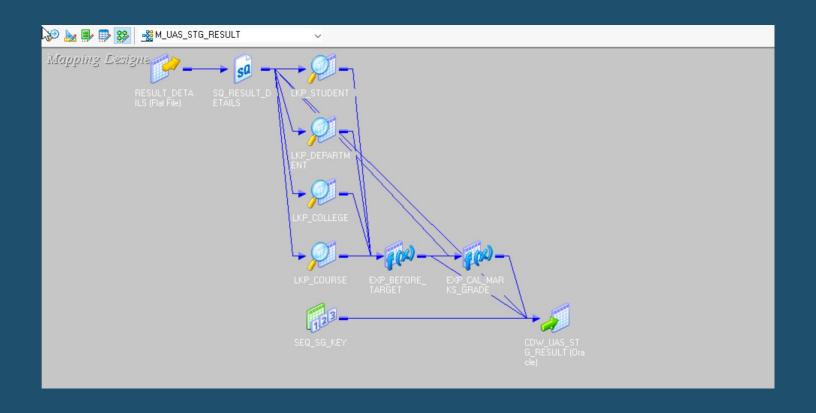


OUTPUT M5:-

<i>V</i> 0	B	(0)	
	FACULTY_CODE FACULTY_NAME	FACULTY_DESIGNATION	PACULTY_QUALIFICATION
1	414877722 Emma Thomson	Associate Professor	Ph.D. in CSE
2	962825827 Liam Johnson	Assistant Professor	Masters in Biology
3	264193159 Olivia Williams	Senior Lecturer	Ph.D. in Mathematics
4	67579093 Noah Brown	Professor	Masters in Chemistry
5	172582113 Ava Garcia	Associate Professor	Ph.D. in Physics
6	823936141 William Martinez	Assistant Professor	Masters in ENG LIT.
7	266547592 Sophia Anderson	Senior Lecturer	Ph.D. in Economics
8	624385021 James Thomas	Professor	Masters in Political Sci
9	1906337 Isabella Jackson	Associate Professor	Ph.D. in Psy
10	778650625 Lucas Lee	Assistant Professor	Masters in Sociology
11	15366924 Mia Hernandez	Senior Lecturer	Ph.D. in Philosophy
12	103452682 Amelia Smith	Professor	Masters in History
13	279199482 John Smith	Department head	Ph.D. in Engineering
14	404771903 Charlotte Rodriguez	Assistant Professor	Masters IN EVS
15	267248075 Logan Lopez	Senior Lecturer	Ph.D. in Linguistics
16	690314796 Aiden White	Professor	Masters in Business Admin.
17	591036203 Ella Harris	Associate Professor	Ph.D. in Art History
18	997093193 Benjamin Clark	Assistant Professor	Masters in Public Health

RESULT_DETAILS_STUDENTS.csv

CDW_STG_RESULT

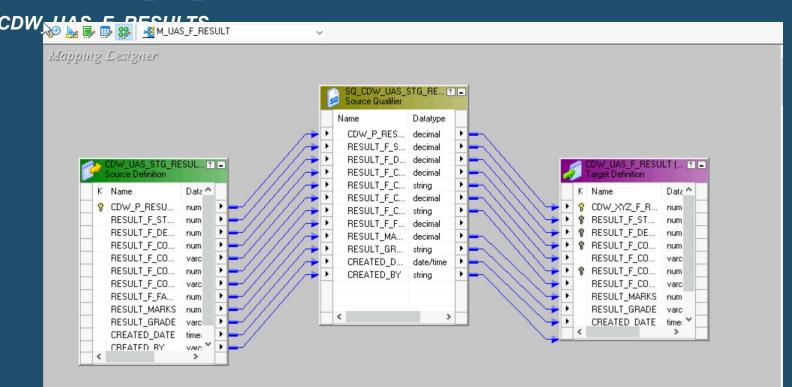


OUTPUT M6 :-

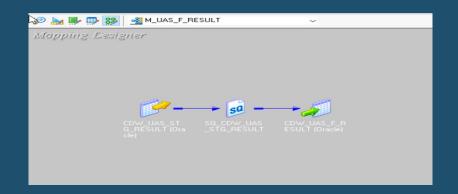
≠ 🚇	🚹 🕦 SQ	L Fetche	ed 50 row:	s in 0.012 seconds					
de la	2 CD 2	RES 2	R 🖁	RESULT_F_COLLEGE_CODE & RESULT_F_COLLEGE_NAME &	RESU RESULT_F_COURSE_NAME	RESUL 2	RESULT_MARKS 2 RESULT_GRADE	@ CREATED_DATE	Ą
1	1810	2077	1	124142436 Hansraj College	101 Introduction to Eng.	414877722	60 FAIL	28-03-24 01:23:28.000000000	AM WF_
2	1811	2078	1	981345267 Daulat Ram College	102 Engineering Maths.	962825827	70 PASS	28-03-24 01:23:28.000000000	AM WF_
3	1812	2079	1	674326645 Ramjas College	103 Physics for Eng.	264193159	80 PASS	28-03-24 01:23:28.000000000	AM WF_
4	1813	2080	2	687557867 Miranda House	104 Computer Prog.	67579093	90 PASS	28-03-24 01:23:28.000000000	AM WF_
5	1815	2082	3	654329788 Kirori Mal College	106 Mechanical Eng.	823936141	40 FAIL	28-03-24 01:23:28.000000000	AM WF_
6	1817	2084	1	767646456 St. Stephens's College	108 Thermodynamics	624385021	80 PASS	28-03-24 01:23:28.000000000	AM WF_
7	1818	2085	7	786787878 DD. Upadhyaya College	109 Electrical Eng.	1906337	90 PASS	28-03-24 01:23:28.000000000	AM WF_
8	1819	2086	1	124142436 Hansraj College	110 Civil Eng.	778650625	99 PASS	28-03-24 01:23:28.000000000	AM WF_
9	1820	2087	7	981345267 Daulat Ram College	lll Environmental Eng.	15366924	58 FAIL	28-03-24 01:23:28.000000000	AM WF_
10	1821	2088	2	674326645 Ramjas College	112 Industrial Eng.	103452682	74 PASS	28-03-24 01:23:28.000000000	AM WF_
11	1822	2089	7	687557867 Miranda House	113 Eng. Design	279199482	35 FAIL	28-03-24 01:23:28.000000000	AM WF_
12	1824	2091	7	654329788 Kirori Mal College	115 Robotics	267248075	78 PASS	28-03-24 01:23:28.000000000	AM WF_
13	1826	2093	7	767646456 St. Stephens's College	117 Aerospace Eng.	591036203	56 FAIL	28-03-24 01:23:28.000000000	AM WF_
14	1827	2094	2	786787878 DD. Upadhyaya College	118 Chemical Eng.	997093193	87 PASS	28-03-24 01:23:28.000000000	AM WF_
15	1828	2095	6	124142436 Hansraj College	119 Nuclear Eng.	734411895	90 PASS	28-03-24 01:23:28.000000000	AM WF_
16	1829	2096	6	981345267 Daulat Ram College	120 Petroleum Eng.	718550517	67 FAIL	28-03-24 01:23:28.000000000	AM WF_
17	1830	2097	2	674326645 Ramjas College	121 Software Eng.	395500241	87 PASS Acti	28-03-24 01:23:28.000000000	AM WF_
18	1831	2098	6	687557867 Miranda House	122 Data Science	84204139	86 PASS Go to	28-03-24 01:23:28.000000000	SAM WF ~

Mapping 7:-

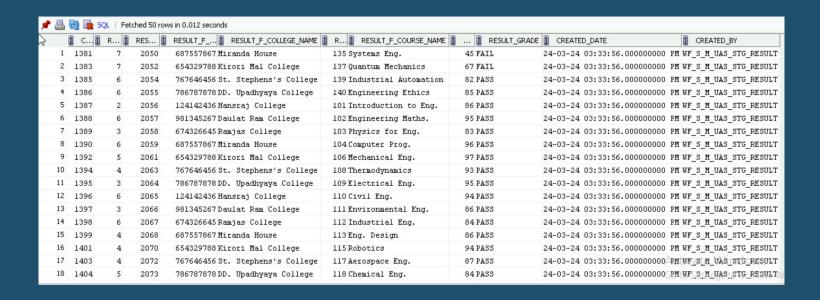
CDW_STG_RESULTS _____



Iconize Mapping 7:-



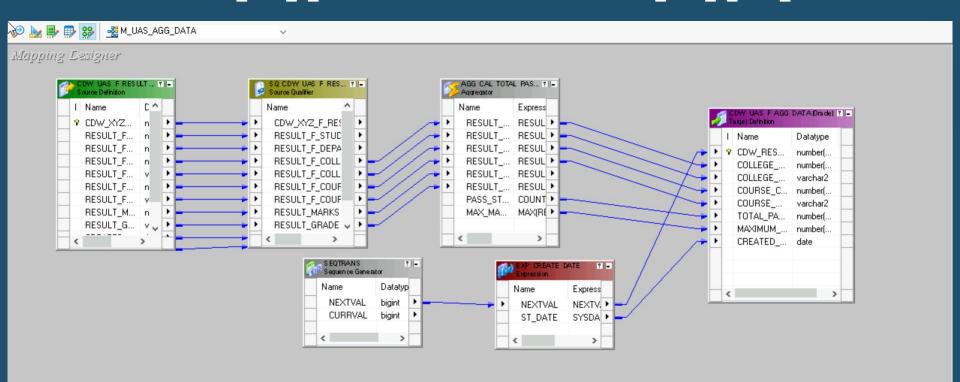
OUTPUT M7:-



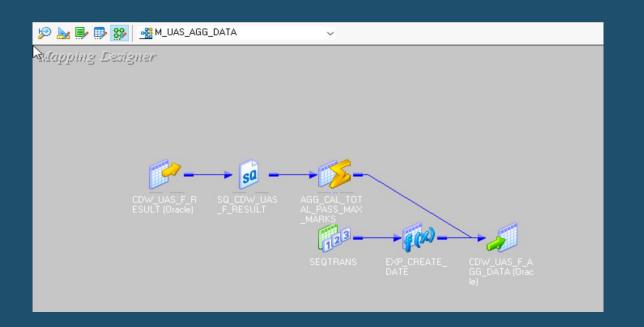
Mapping 8:-

CDW UAS F RESULTS

CDW_UAS_F_AGG_DATA



Iconize Mapping 8 :-



OUTPUT M8 :- Final Result

6 4	SQL Fetched 50 rows in 0.0	12 seconds						
2	CDW_RESULT_AGG_DSET_KEY	COLLEGE_CODE	COLLEGE_NAME	COURSE_CODE	COURSE_NAME	TOTAL_PASS	MAXIMUM_MARK	CREATED_DATE
31	276	981345267 Da	ulat Ram College	133 (Optical Eng.	1	80 25	-03-24
32	277	981345267 Da	ulat Ram College	111 E	Invironmental Eng.	1	86 25-	-03-24
33	278	981345267 Da	ulat Ram College	115 F	Robotics	1	83 25-	-03-24
34	279	981345267 Da	ulat Ram College	119 M	Muclear Eng.	1	90 25	-03-24
35	280	981345267 Da	ulat Ram College	135 9	Systems Eng.	1	83 25-	-03-24
36	281	786787878 DD	. Upadhyaya College	104	Computer Prog.	2	78 28-	-03-24
37	282	786787878 DD	. Upadhyaya College	1087	Thermodynamics	2	80 28-	-03-24
38	283	786787878 DD	. Upadhyaya College	124 F	Clectrical Pow. Sys.	2	86 28-	-03-24
39	284	786787878 DD	. Upadhyaya College	136 M	Muclear Physics	0	45 28	-03-24
40	285	786787878 DD	. Upadhyaya College	137 (Quantum Mechanics	2	88 28-	-03-24
41	286	786787878 DD	. Upadhyaya College	105 0	Circuit Analysis	2	95 28-	-03-24
42	287	786787878 DD	. Upadhyaya College	109 E	Electrical Eng.	4	95 28-	-03-24
43	288	786787878 DD	. Upadhyaya College	113 F	Ing. Design	0	68 28-	-03-24
44	289	786787878 DD	. Upadhyaya College	117 #	lerospace Eng.	0	56 28-	-03-24
45	290	786787878 DD	. Upadhyaya College	131 t	Jrban Planning	2	89 28-	-03-24
46	291	786787878 DD	. Upadhyaya College	102 F	Engineering Maths.	2	94 28	-03-24
47	292	786787878 DD	. Upadhyaya College	106 1	Mechanical Eng.	2	82 28-	-03/24tivate
48	293	786787878 DD	. Upadhyaya College	118 0	Chemical Eng.	4	87 28-	-03c24 to Sett
40					Carl V	_		

CONCLUSION:-

- ✓ As per the requirements I have successfully upload the source data into targets.
- ✓ As per the requirements I have clean the data and changed the formats of the sources by using multiple type of transformation .
- ✓ I have successfully calculated Total number of students passed for each Course in each College.
- ✓ I have successfully calculated Maximum Mark for each Course taught in each College.

THANK YOU