



# Health Care System



## **CDB22CSDDW004 Group-B**

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# Introduction

The primary objective of the project is to create a database with required data validations as mentioned below:

## Group

- To analyze the Group information given & load them into the **Group table**.

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## Sub Group

- To analyze the Sub Group data.
- Load them into the **Sub Group table with the matching records in the Group table**.

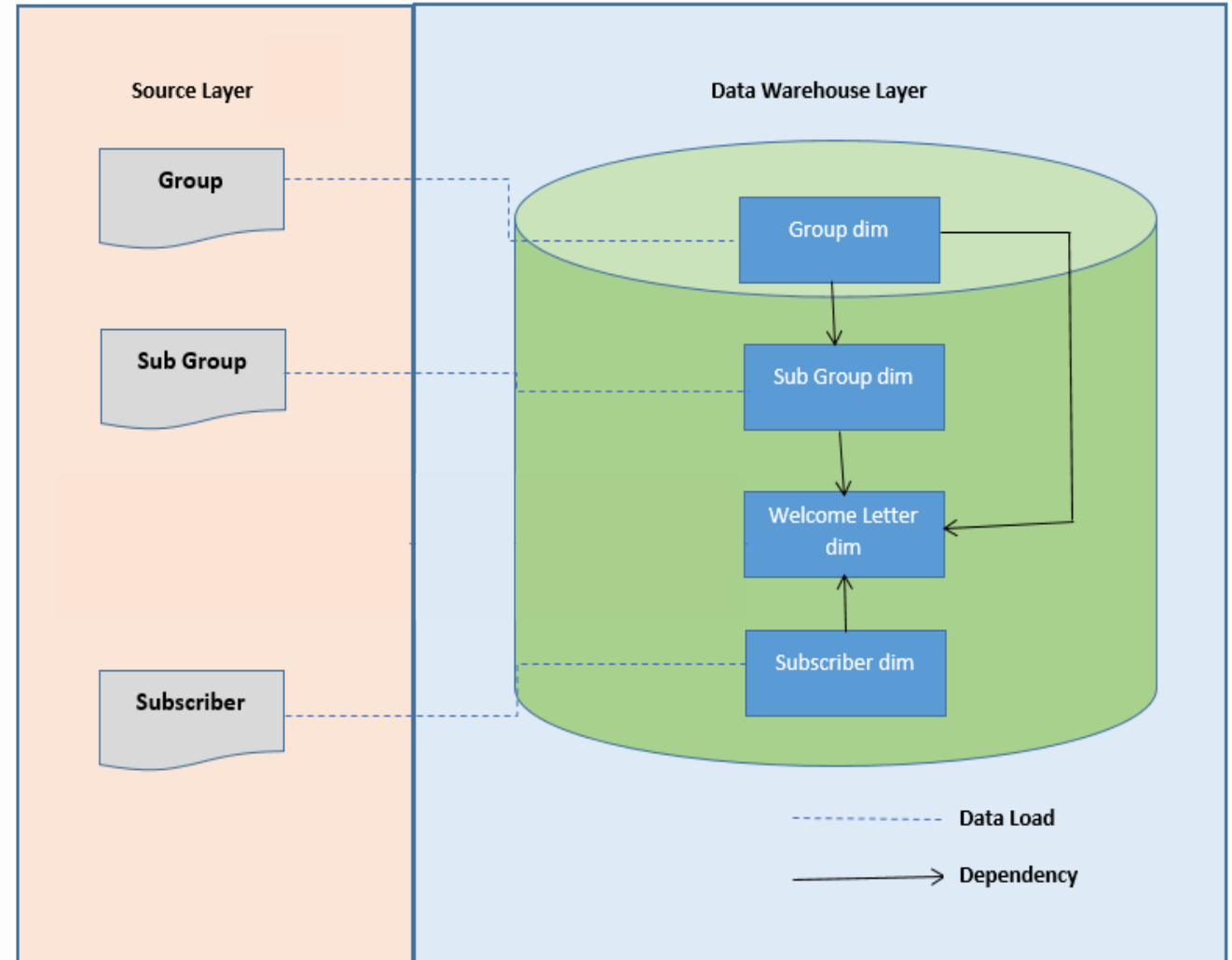
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## Subscriber

- To analyze the Subscriber data.
- Load them into the **Subscriber table with the matching records in the Group table and subgroup table already loaded**.

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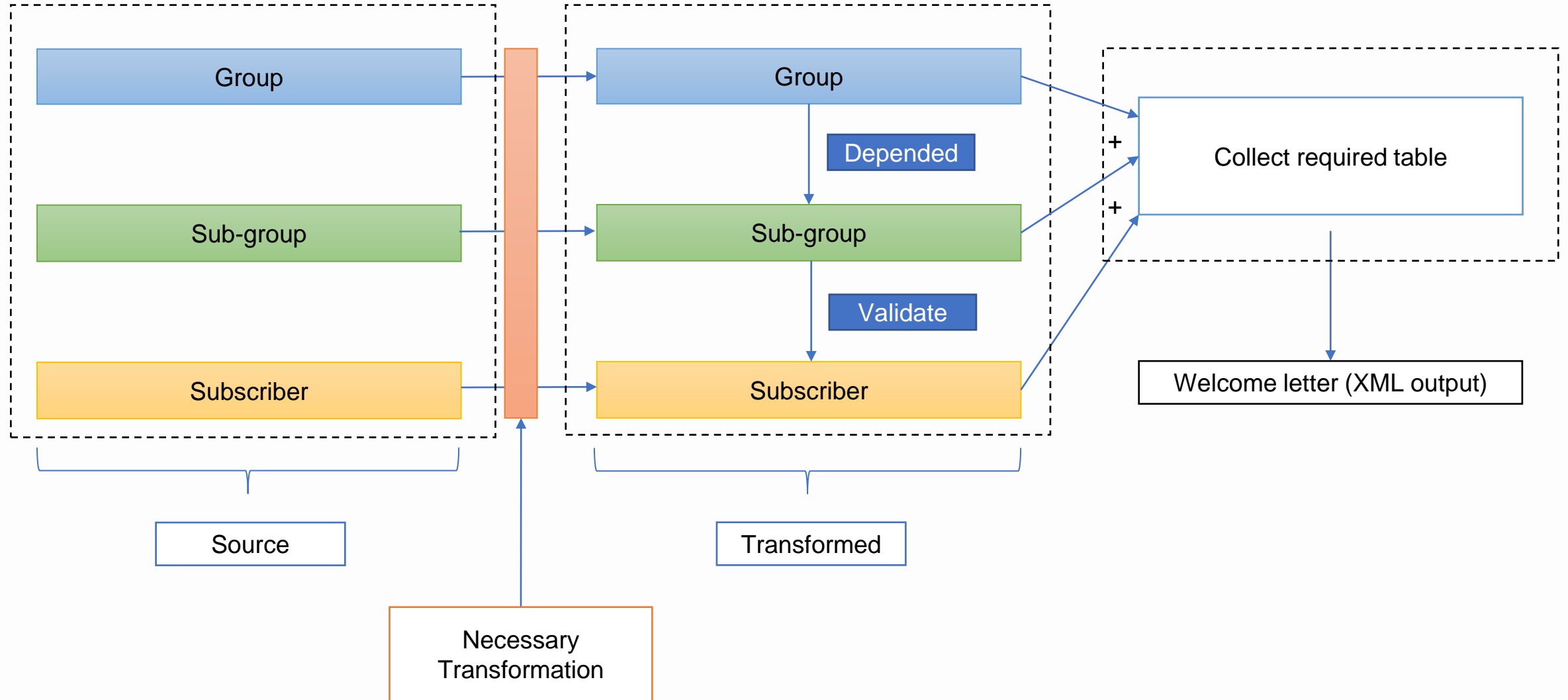
## Welcome Letter



# Functional requirements for GROUP

- Rename the input file as Group\_Fixed\_<Associate\_Id>.txt and Group\_Comma\_<Associate\_Id>.csv.
- Create a table in sql plus by name Group\_<Associate\_Id>.
- Validate the data from the input file and load only valid records into the target table according to the constraints mentioned in the target table.
- Load only the members who are currently effective. (i.e) SYSDATE BETWEEN EFFT\_DT AND TERM\_DT.
- Populate leading zeroes in GROUP\_ID field while populating into the target table.
- GRP\_SK is the surrogate key.

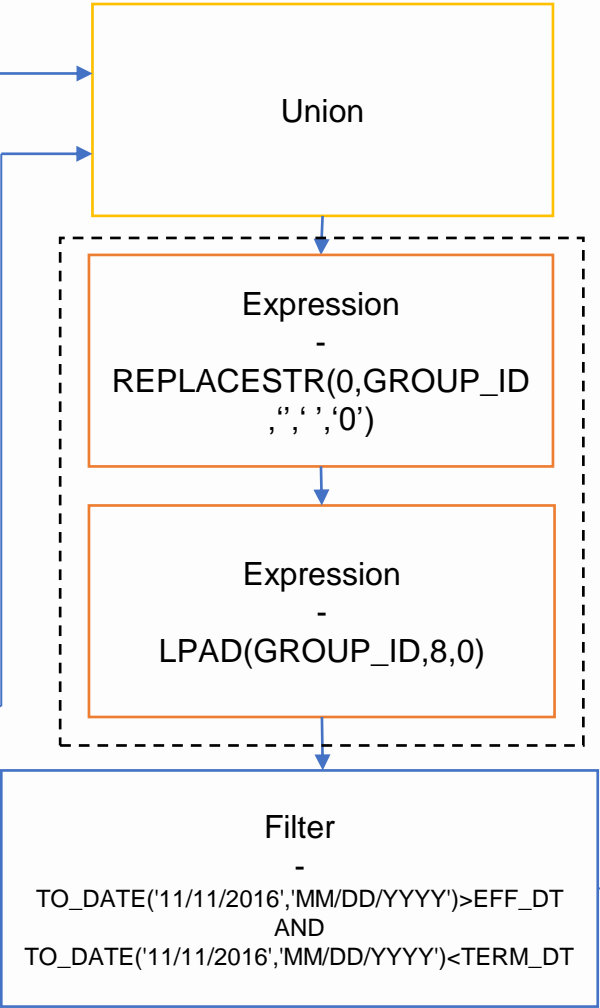
# Architecture



# Group structure

FIELD_NAME	START_POS	END_POS
GROUP_ID	1	8
GROUP_NAME	9	24
EFF_DT	25	34
TERM_DT	35	44
STREET	45	64
CITY	65	80
STATE	81	96
ZIP	97	101

FIELD_NAME	LENGTH
GROUP_ID	8
GROUP_NAME	16
EFF_DT	10
TERM_DT	10
STREET	20
CITY	16
STATE	16
ZIP	5

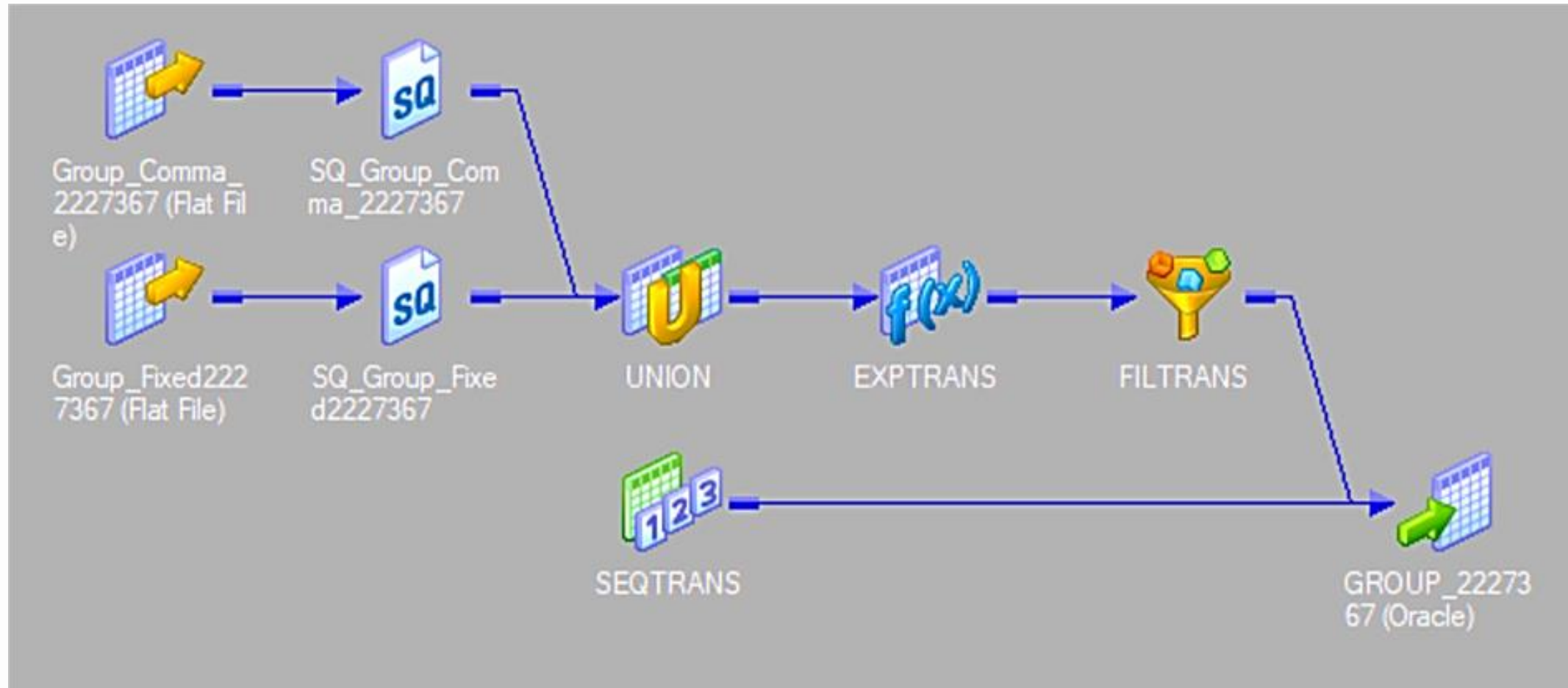


FIELD_NAME	TARGET DATATYPE	TABLE CONSTRAINTS
GRP_SK	NUMBER(10)	NOT NULL
GROUP_ID	VARCHAR2(8)	PRIMARY_KEY
GROUP_NAME	VARCHAR2(30)	NOT NULL
EFF_DT	DATE	NOT NULL
TERM_DT	DATE	NOT NULL
STREET	VARCHAR2(35)	
CITY	VARCHAR2(15)	
STATE	VARCHAR2(20)	
ZIP	NUMBER(5)	NOT NULL

SEQUENCE\_GENERATOR

NOTE: 11/11/2016 is taken instead of SYSDATE, since the data files consists no records which is viable for the current system date.

## Mapping for Group module



# Data Before and after workflow

## Group

12346XYZ INC	9/1/2013	12/31/2015	SECOND ST	ROCHESTER	NEW YORK	60124
12347THINK INC	6/1/2013	12/31/2016	THIRD ST	BUFFALO	NEW YORK	60125
12348TANK CORP	3/1/2013	12/31/2017	FOURTH ST	KENTUCKY	NEW YORK	60126
12349BUZ ASSC	12/1/2012	12/31/2014	CROSS ST	CHICAGO	ILLINOIS	60127
12350BPC LTD	9/1/2012	12/31/2015	FIRST CROSS ST	SAN FRANCISCO	CALIFORNIA	60128
12351WONDER BANK	6/1/2012	12/31/2016	FIRST INTERSECTION	DALLAS	TEXAS	60129
12352STRANDED OFFICE	3/1/2012	12/31/2017	MORILIER ST	MIAMI	FLORIDA	60130

GROUP_ID	GROUP_NAME	EFF_DT	TERM_DT	STREET	CITY	STATE	ZIP
12345	ABC CORP	01-01-2014	31-12-2014	FIRST ST	NEW YORK	NEW YORK	60123
12346	XYZ INC	01-09-2013	31-12-2015	SECOND ST	ROCHESTER	NEW YORK	60124
12347	THINK INC	01-06-2013	31-12-2016	THIRD ST	BUFFALO	NEW YORK	60125
12348	TANK CORP	01-03-2013	31-12-2017	FOURTH ST	KENTUCKY	NEW YORK	60126
12349	BUZ ASSC	01-12-2012	31-12-2014	CROSS ST	CHICAGO	ILLINOIS	60127

GROUP\_FIXED\_2227367.txt

GROUP\_COMMA\_2227367.csv

GROUP\_2227374

	GRP_SK	GROUP_ID	GROUP_NAME	EFF_DT	TERM_DT	STREET	CITY	STATE	ZIP
1	19	00012347	THINK INC	01-06-13	31-12-16	THIRD ST	BUFFALO	NEW YORK	60125
2	20	00012348	TANK CORP	01-03-13	31-12-17	FOURTH ST	KENTUCKY	NEW YORK	60126
3	21	00012351	WONDER BANK	01-06-12	31-12-16	FIRST INTERSECTION	DALLAS	TEXAS	60129
4	22	00012352	STRANDED OFFICE	01-03-12	31-12-17	MORILIER ST	MIAMI	FLORIDA	60130

## Functional requirements for SUBGROUP

- Rename the input file as SUBGRP\_<Associate\_Id>.txt.
- Create table in sql plus by name SUBGRP\_<Associate\_Id> with the above structure.
- Validate the data from the input file and load only valid records into the target table according to the constraints mentioned in the target table.
- Populate leading zeroes in the fields GROUP\_ID and SUBGRP\_ID while loading into the table.
- Also validate the Group Id against the Group table and load only matching data into the target table.
- Load the non matching values into Target file with the same structure as source and name the file as SUBGRP\_Join\_Errors\_<Associate\_Id>.txt
- SUBGRP\_SK is the surrogate key.



# Sub-group structure (V1.0)

FIELD_NAME	LENGTH
SUBGRP_ID	4
SUBGRP_NAME	30
EFF_DT	10
TERM_DT	10
GROUP_ID	8

Expression  
-  
LPAD(GROUP\_ID,8,'0')  
LPAD(SUBGRP\_ID,4,'0')

SEQUENCE\_GENERATOR

Lookup  
-  
GROUP\_ID from  
GROUP

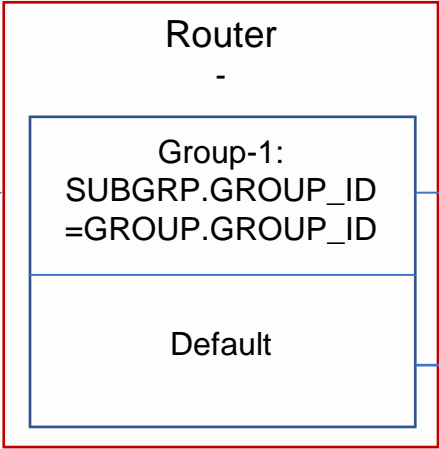
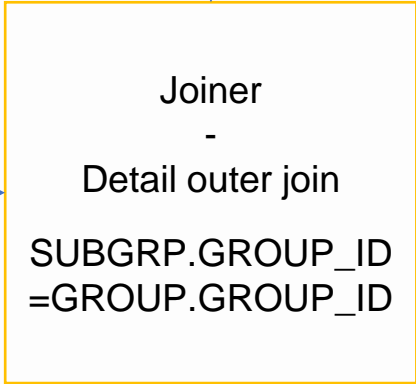
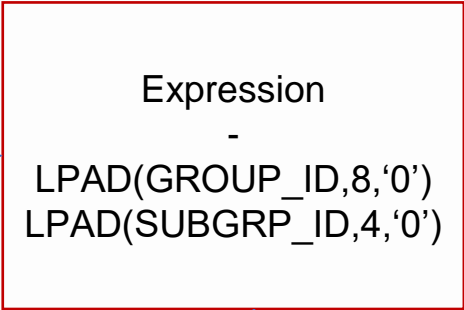
FIELD_NAME	TARGET_DATATYPE
SUBGRP_SK	NUMBER(10)
SUBGRP_ID	VARCHAR2(4)
SUBGRP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
GROUP_ID	VARCHAR2(8)

REJECT (.out file)

# Sub-group structure (V1.1)

FIELD_NAME	LENGTH
SUBGRP_ID	4
SUBGRP_NAME	30
EFF_DT	10
TERM_DT	10
GROUP_ID	8

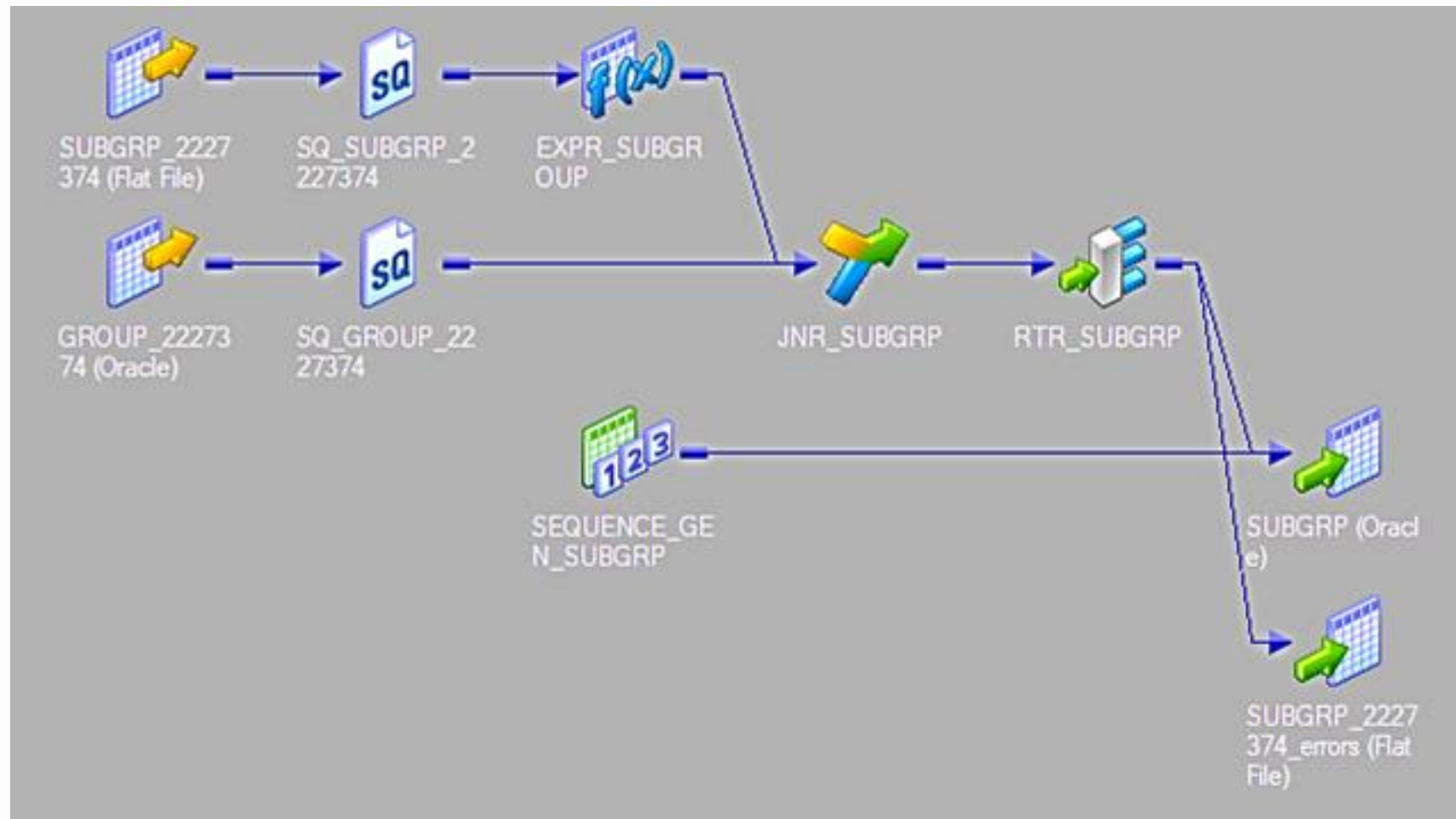
FIELD_NAME	TARGET DATATYPE
GRP_SK	NUMBER(10)
GROUP_ID	VARCHAR2(8)
GROUP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
STREET	VARCHAR2(35)
CITY	VARCHAR2(15)
STATE	VARCHAR2(20)
ZIP	NUMBER(5)



FIELD_NAME	TARGET_DATATYPE
SUBGRP_SK	NUMBER(10)
SUBGRP_ID	VARCHAR2(4)
SUBGRP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
GROUP_ID	VARCHAR2(8)

FIELD_NAME	LENGTH
SUBGRP_ID	4
SUBGRP_NAME	30
EFF_DT	10
TERM_DT	10
GROUP_ID	8

## Mapping for Subgroup module



# Subgroup

SUBGRP\_2227374.txt

OUTPUT (SUBGRP\_2227374)

REJECTS

SUBGRP_ID	SUBGRP_NAME	EFF_DT	TERM_DT	GROUP_ID
1	WORKERS	1/1/2014	12/31/2014	12345
2	ASSOCIATES	1/1/2014	12/31/2014	12345
3	MANAGERS	1/1/2014	12/31/2014	12345
4	HRS	1/1/2014	12/31/2014	12345
5	DIRECTORS	1/1/2014	12/31/2014	12345
6	ADMINS	1/1/2014	12/31/2014	12345
7	SECURITY	1/1/2014	12/31/2014	12345
1	WORKERS	9/1/2013	12/31/2015	12346
2	ASSOCIATES	9/1/2013	12/31/2015	12346
3	MANAGERS	9/1/2013	12/31/2015	12346
4	HRS	9/1/2013	12/31/2015	12346
5	DIRECTORS	9/1/2013	12/31/2013	12345
6	ADMINS	9/1/2013	12/31/2013	12345
7	SECURITY	9/1/2013	12/31/2015	12346
1	WORKERS	6/1/2013	12/31/2013	12345
2	ASSOCIATES	6/1/2013	12/31/2016	12347
3	MANAGERS	6/1/2013	12/31/2016	12347
4	HRS	6/1/2013	12/31/2016	12347
5	DIRECTORS	6/1/2013	12/31/2016	12347
6	ADMINS	6/1/2013	12/31/2016	12347
7	SECURITY	6/1/2013	12/31/2013	12345
1	WORKERS	3/1/2013	12/31/2017	12348
2	ASSOCIATES	3/1/2013	12/31/2017	12348
3	MANAGERS	3/1/2013	12/31/2017	12348
4	HRS	3/1/2013	12/31/2017	12348
5	DIRECTORS	3/1/2013	12/31/2017	12348
6	ADMINS	3/1/2013	12/31/2013	12348
7	SECURITY	3/1/2013	12/31/2017	12348

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GROUP\_2227374

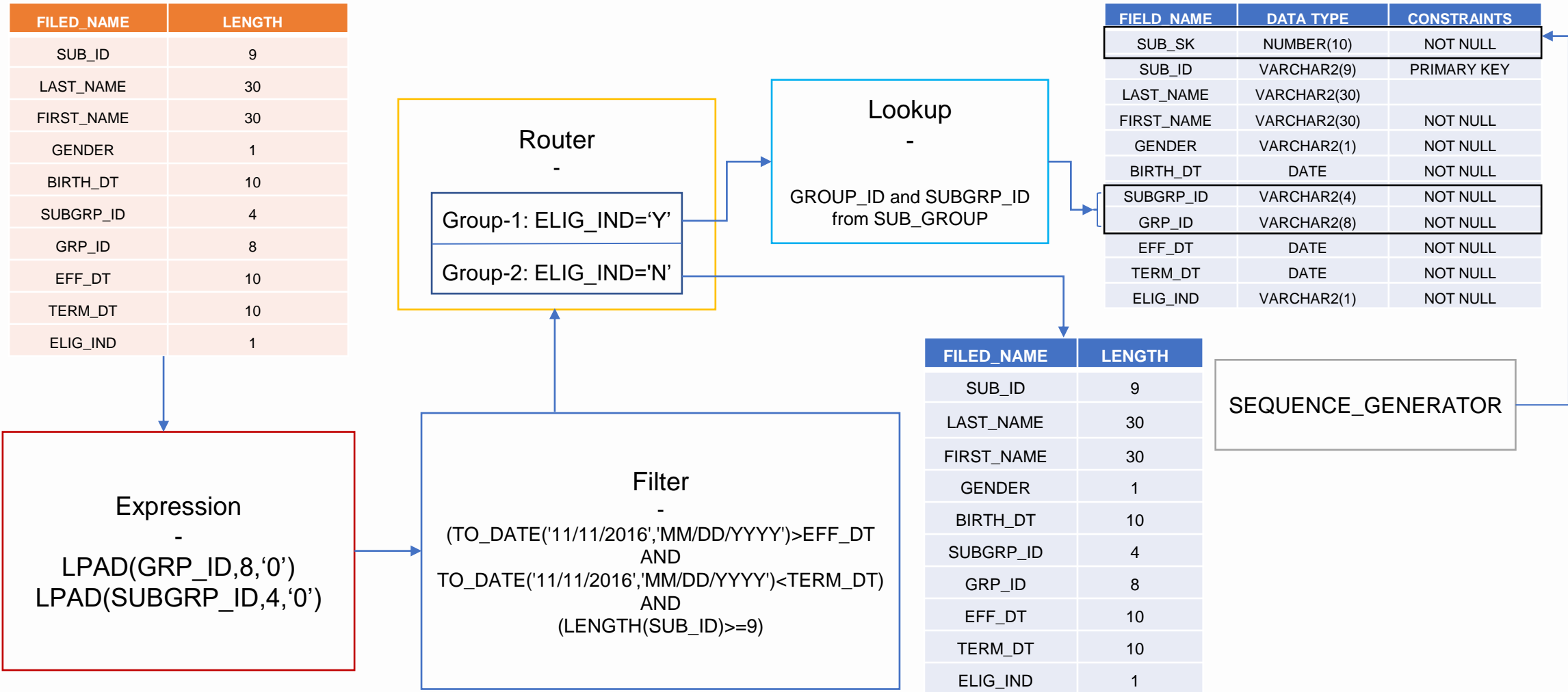
SUBGRP_SK	SUBG	SUBGRP_NAME	EFF_DT	TERM_DT	GROUP_ID
485	0006	ADMINS	01-JUN-13	31-DEC-16	00012347
486	0005	DIRECTORS	01-JUN-13	31-DEC-16	00012347
487	0004	HRS	01-JUN-13	31-DEC-16	00012347
488	0003	MANAGERS	01-JUN-13	31-DEC-16	00012347
489	0002	ASSOCIATES	01-JUN-13	31-DEC-16	00012347
490	0007	SECURITY	01-MAR-13	31-DEC-17	00012348
491	0006	ADMINS	01-MAR-13	31-DEC-13	00012348
492	0005	DIRECTORS	01-MAR-13	31-DEC-17	00012348
493	0004	HRS	01-MAR-13	31-DEC-17	00012348
494	0003	MANAGERS	01-MAR-13	31-DEC-17	00012348
495	0002	ASSOCIATES	01-MAR-13	31-DEC-17	00012348
496	0001	WORKERS	01-MAR-13	31-DEC-17	00012348
497	0007	SECURITY	01-JUN-12	31-DEC-16	00012351
498	0005	DIRECTORS	01-JUN-12	31-DEC-16	00012351
499	0004	HRS	01-JUN-12	31-DEC-16	00012351
500	0003	MANAGERS	01-JUN-12	31-DEC-16	00012351
501	0002	ASSOCIATES	01-JUN-12	31-DEC-16	00012351
502	0001	WORKERS	01-JUN-12	31-DEC-16	00012351
503	0007	SECURITY	01-MAR-12	31-DEC-17	00012352
504	0006	ADMINS	01-MAR-12	31-DEC-17	00012352
505	0005	DIRECTORS	01-MAR-12	31-DEC-11	00012352
506	0004	HRS	01-MAR-12	31-DEC-17	00012352
507	0003	MANAGERS	01-MAR-12	31-DEC-17	00012352
508	0002	ASSOCIATES	01-MAR-12	31-DEC-17	00012352
509	0001	WORKERS	01-MAR-12	31-DEC-17	00012352

	A	B	C	D	E
1	#SUBGRP_ID	SUBGRP_NAME	EFF_DT	TERM_DT	GROUP_ID
2	1	WORKERS	01-01-2014	12/31/2014	12345
3	2	ASSOCIATES	01-01-2014	12/31/2014	12345
4	3	MANAGERS	01-01-2014	12/31/2014	12345
5	4	HRS	01-01-2014	12/31/2014	12345
6	5	DIRECTORS	01-01-2014	12/31/2014	12345
7	6	ADMINS	01-01-2014	12/31/2014	12345
8	7	SECURITY	01-01-2014	12/31/2014	12345
9	1	WORKERS	09-01-2013	12/31/2015	12346
10	2	ASSOCIATES	09-01-2013	12/31/2015	12346
11	3	MANAGERS	09-01-2013	12/31/2015	12346
12	4	HRS	09-01-2013	12/31/2015	12346
13	5	DIRECTORS	09-01-2013	12/31/2013	12345
14	6	ADMINS	09-01-2013	12/31/2013	12345
15	7	SECURITY	09-01-2013	12/31/2015	12346
16	1	WORKERS	06-01-2013	12/31/2013	12345
17	7	SECURITY	06-01-2013	12/31/2013	12345
18	1	WORKERS	12-01-2012	12/31/2014	12349
19	2	ASSOCIATES	12-01-2012	12/31/2014	12349
20	3	MANAGERS	12-01-2012	12/31/2014	12349
21	4	HRS	12-01-2012	12/31/2014	12349
22	5	DIRECTORS	12-01-2012	12/31/2012	12340
SUBGRP_Join_Errors_2227324					

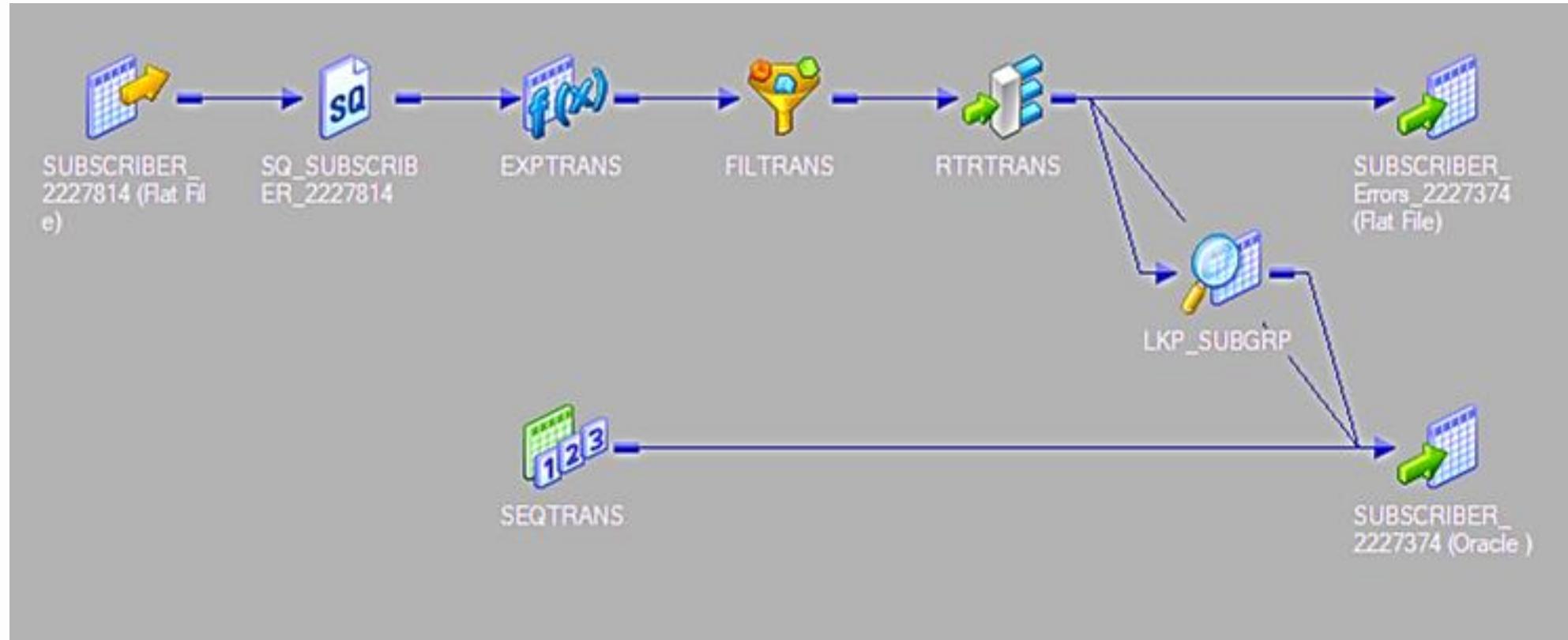
## Functional requirements for SUBSCRIBER

- Rename the input file as SUBSCRIBER\_<Associate\_Id>.csv
- Create table in sql plus by name SUBSCRIBER\_<Associate\_Id> with the above structure.
- Load only the members who are currently effective. (i.e) SYSDATE BETWEEN EFFT\_DT AND TERM\_DT.
- Load subscribers with Elig\_Ind as 'Y' in the Target table and with Elig\_Ind as 'N' into Target file with the same structure as source and name the file as SUBSCRIBER\_Errors\_<Associate\_Id>.txt
- Reject records if the Subscriber\_Id has less than 9 characters.
- Populate leading zeroes in the fields GROUP\_ID and SUBGRP\_ID while populating data into the Target table.
- Validate the data from the input file and load only valid records into the target table according to the constraints mentioned in the target table.
- Also validate the Group Id and Subgrp\_Id against the Subgrp table and load only matching data into the target table.
- SUB\_SK is the surrogate key.

# Subscriber structure



## Mapping for Subscriber module





# Subscriber

## SUBSCRIBER\_2227814.txt

SUB_ID	LAST_NAME	FIRST_NAME	GENDER	BIRTH_DT	SUBGRP_ID	GRP_ID	EFF_DT	TERM_DT	ELIG_IND
201000001	SMITH	aaliyah	f	01-01-1957	1	12345	01-01-2014	31-12-2014	Y
201000002	JOHNSON	aapeli	m	02-01-1957	2	12345	01-01-2014	31-12-2014	Y
201000003	WILLIAMS	aapo	m	03-01-1957	3	12345	01-01-2014	31-12-2014	Y
201000004	JONES	aaren	m	04-01-1957	4	12345	01-01-2014	31-12-2014	Y
201000005	BROWN	aarne	m	05-01-1957	5	12345	01-01-2014	31-12-2014	Y
201000006	DAVIS	aarón	m	06-01-1957	6	12345	01-01-2014	31-12-2014	Y
201000007	MILLER	aaron	m	07-01-1957	7	12345	01-01-2014	31-12-2014	Y
201000008	WILSON	aatami	m	08-01-1957	1	12346	01-09-2013	31-12-2015	Y
201000009	MOORE	aatto	m	09-01-1957	2	12346	01-09-2013	31-12-2015	Y
201000010	TAYLOR	aatu	m	10-01-1957	3	12346	01-09-2013	31-12-2015	Y
201000011	ANDERSON	abaddon	m	11-01-1957	4	12346	01-09-2013	31-12-2015	Y
201000012	THOMAS	abbán	m	12-01-1957	5	12345	01-09-2013	31-12-2013	Y
201000013	JACKSON	'abbas	m	13-01-1957	6	12345	01-09-2013	31-12-2013	Y
201000014	WHITE	abbey	f	14-01-1957	7	12346	01-09-2013	31-12-2015	Y
201000015	HARRIS	abbie	f	15-01-1957	1	12345	01-06-2013	31-12-2013	Y
201000016	MARTIN	abby	f	16-01-1957	2	12347	01-06-2013	31-12-2016	Y
201000017	THOMPSON	abd-al-aziz	m	17-01-1957	3	12347	01-06-2013	31-12-2016	Y
201000018	GARCIA	abd-allah	m	18-01-1957	4	12347	01-06-2013	31-12-2016	Y
201000019	MARTINEZ	abd-al-ma	m	19-01-1957	5	12347	01-06-2013	31-12-2016	Y
201000020	ROBINSON	abd-al-qac	m	20-01-1957	6	12347	01-06-2013	31-12-2016	Y
201000021	CLARK	abd-al-rah	m	21-01-1957	7	12345	01-06-2013	31-12-2013	Y
201000022	RODRIGUEZ	abdul	m	22-01-1957	1	12348	01-03-2013	31-12-2017	Y
201000023	LEWIS	abdul-aziz	m	23-01-1957	2	12348	01-03-2013	31-12-2017	Y
201000024	LEE	abdullah	m	24-01-1957	3	12348	01-03-2013	31-12-2017	Y
201000025	WALKER	abdul-rahm	m	25-01-1957	4	12348	01-03-2013	31-12-2017	Y
201000026	HALL	abe	m	26-01-1957	5	12348	01-03-2013	31-12-2017	Y
201000027	ALLEN	abednego	m	27-01-1957	6	12348	01-03-2013	31-12-2013	Y

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## SUBGRP\_2227374

## SUBSCRIBER\_2227374

SUB_SK	SUB_ID	LAST_NAME	FIRST_NAME	G	BIRTH_DT	SUBG	GRP_ID	EFF_DT	TERM_DT	E
26160	201000016	MARTIN	abby	f	16-JAN-57	0002	00012347	06-JAN-13	31-DEC-16	Y
26161	201000017	THOMPSON	abd-al-aziz	m	17-JAN-57	0003	00012347	06-JAN-13	31-DEC-16	Y
26162	201000018	GARCIA	abd-allah	m	18-JAN-57	0004	00012347	06-JAN-13	31-DEC-16	Y
26163	201000019	MARTINEZ	abd-al-malik	m	19-JAN-57	0005	00012347	06-JAN-13	31-DEC-16	Y
26164	201000020	ROBINSON	abd-al-qadir	m	20-JAN-57	0006	00012347	06-JAN-13	31-DEC-16	Y
26165	201000022	RODRIGUEZ	abdul	m	22-JAN-57	0001	00012348	03-JAN-13	31-DEC-17	Y
26166	201000023	LEWIS	abdul-aziz	m	23-JAN-57	0002	00012348	03-JAN-13	31-DEC-17	Y
26167	201000024	LEE	abdullah	m	24-JAN-57	0003	00012348	03-JAN-13	31-DEC-17	Y
26168	201000025	WALKER	abdul-rahman	m	25-JAN-57	0004	00012348	03-JAN-13	31-DEC-17	Y
26169	201000026	HALL	abe	m	26-JAN-57	0005	00012348	03-JAN-13	31-DEC-17	Y
26170	201000028	YOUNG	abegail	f	28-JAN-57	0007	00012348	03-JAN-13	31-DEC-17	Y
26171	201000043	ROBERTS	abilene	f	12-FEB-57	0001	00012351	06-JAN-12	31-DEC-16	Y
26172	201000044	TURNER	abimael	m	13-FEB-57	0002	00012351	06-JAN-12	31-DEC-16	Y
26173	201000045	PHILLIPS	abiram	m	14-FEB-57	0003	00012351	06-JAN-12	31-DEC-16	Y
26174	201000046	CAMPBELL	abisai	m	15-FEB-57	0004	00012351	06-JAN-12	31-DEC-16	Y
26175	201000047	PARKER	abishag	f	16-FEB-57	0005	00012351	06-JAN-12	31-DEC-16	Y
26176	201000048	EVANS	abishai	m	17-FEB-57	0007	00012351	06-JAN-12	31-DEC-16	Y
26177	201000049	EDWARDS	abital	f	18-FEB-57	0001	00012352	03-JAN-12	31-DEC-17	Y
26178	201000050	COLLINS	'abla	f	19-FEB-57	0002	00012352	03-JAN-12	31-DEC-17	Y
26179	201000051	STEWART	abner	m	20-FEB-57	0003	00012352	03-JAN-12	31-DEC-17	Y
26180	201000052	SANCHEZ	abraham	m	21-FEB-57	0004	00012352	03-JAN-12	31-DEC-17	Y

## REJECTS

```
#SUB_ID, LAST_NAME, FIRST_NAME, GENDER, BIRTH_DT, SUBGRP_ID, GRP_ID, EFF_DT, TERM_DT, ELIG_IND
201000982, HYDE, audra (1), f, 09-09-1959, 0002, 00012347, 01-06-2013, 31-12-2016, N
201000983, FORBES, audra (2), f, 10-09-1959, 0003, 00012347, 01-06-2013, 31-12-2016, N
201000984, GILLIAM, audrea, f, 11-09-1959, 0004, 00012347, 01-06-2013, 31-12-2016, N
201000985, GUTHRIE, audrey, f, 12-09-1959, 0005, 00012347, 01-06-2013, 31-12-2016, N
201000986, WOOTEN, august (1), m, 13-09-1959, 0006, 00012347, 01-06-2013, 31-12-2016, N
201000988, BARLOW, augusta, f, 15-09-1959, 0001, 00012348, 01-03-2013, 31-12-2017, N
201000989, BOYLE, auguste, m, 16-09-1959, 0002, 00012348, 01-03-2013, 31-12-2017, N
201000990, MCMAHON, augustijn, m, 17-09-1959, 0003, 00012348, 01-03-2013, 31-12-2017, N
201000991, BUCKNER, augustin, m, 18-09-1959, 0004, 00012348, 01-03-2013, 31-12-2017, N
201000992, ROCHA, augustine, m, 19-09-1959, 0005, 00012348, 01-03-2013, 31-12-2017, N
```



## Functional requirements for WELCOME LETTER

- Fetch all valid records from the Group, Subgrp and Subscriber tables based on the below join conditions mentioned:

GROUP.GROUP\_ID = SUBGRP.GROUP\_ID

AND GROUP.GROUP\_ID = SUBSCRIBER.GRP\_ID

AND SUBSCRIBER.SUBGRP\_ID = SUBGRP.SUBGRP\_ID

- Populate the below fields as per the data objects

# Welcome Letter structure (V1.0)

FIELD_NAME	DATATYPE
GRP_SK	NUMBER(10)
GROUP_ID	VARCHAR2(8)
GROUP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
STREET	VARCHAR2(35)
CITY	VARCHAR2(15)
STATE	VARCHAR2(20)
ZIP	NUMBER(5)

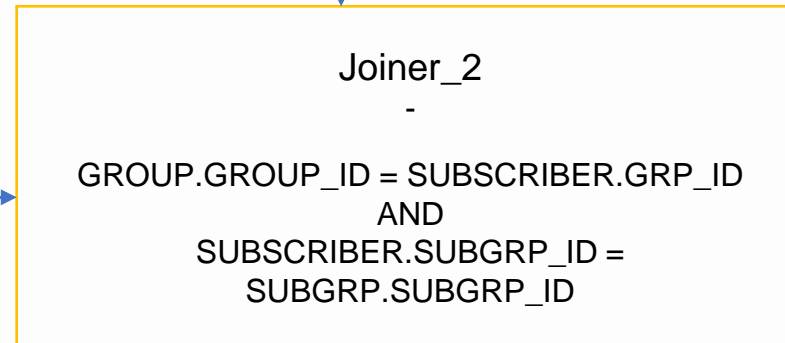
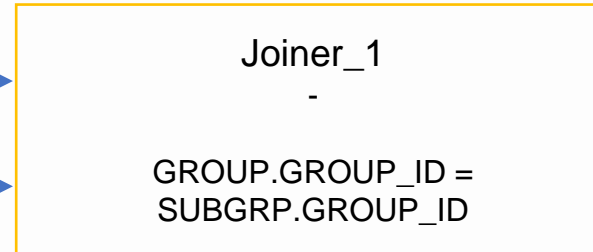
Group Table

FIELD_NAME	DATATYPE
SUBGRP_SK	NUMBER(10)
SUBGRP_ID	VARCHAR2(4)
SUBGRP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
GROUP_ID	VARCHAR2(8)

Subgroup Table

FIELD_NAME	DATA TYPE
SUB_SK	NUMBER(10)
SUB_ID	VARCHAR2(9)
LAST_NAME	VARCHAR2(30)
FIRST_NAME	VARCHAR2(30)
GENDER	VARCHAR2(1)
BIRTH_DT	DATE
SUBGRP_ID	VARCHAR2(4)
GRP_ID	VARCHAR2(8)
EFF_DT	DATE
TERM_DT	DATE
ELIG_IND	VARCHAR2(1)

Subscriber Table



TARGET XML	SOURCE COLUMN
GROUP ID	GROUP.GROUP_ID
STREET	GROUP.STREET
CITY	GROUP.CITY
STATE	GROUP.STATE
ZIP	GROUP.ZIP
SUBGRPNAME	SUBGRP.SUBGRP_NAME
LASTNAME	SUBSCRIBER.LAST_NAME
FIRSTNAME	SUBSCRIBER.FIRST_NAME

# Welcome Letter structure (V1.1)

FIELD_NAME	DATATYPE
GRP_SK	NUMBER(10)
GROUP_ID	VARCHAR2(8)
GROUP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
STREET	VARCHAR2(35)
CITY	VARCHAR2(15)
STATE	VARCHAR2(20)
ZIP	NUMBER(5)

Group Table

FIELD_NAME	DATATYPE
SUBGRP_SK	NUMBER(10)
SUBGRP_ID	VARCHAR2(4)
SUBGRP_NAME	VARCHAR2(30)
EFF_DT	DATE
TERM_DT	DATE
GROUP_ID	VARCHAR2(8)

Subgroup Table

FIELD_NAME	DATA TYPE
SUB_SK	NUMBER(10)
SUB_ID	VARCHAR2(9)
LAST_NAME	VARCHAR2(30)
FIRST_NAME	VARCHAR2(30)
GENDER	VARCHAR2(1)
BIRTH_DT	DATE
SUBGRP_ID	VARCHAR2(4)
GRP_ID	VARCHAR2(8)
EFF_DT	DATE
TERM_DT	DATE
ELIG_IND	VARCHAR2(1)

Subscriber Table

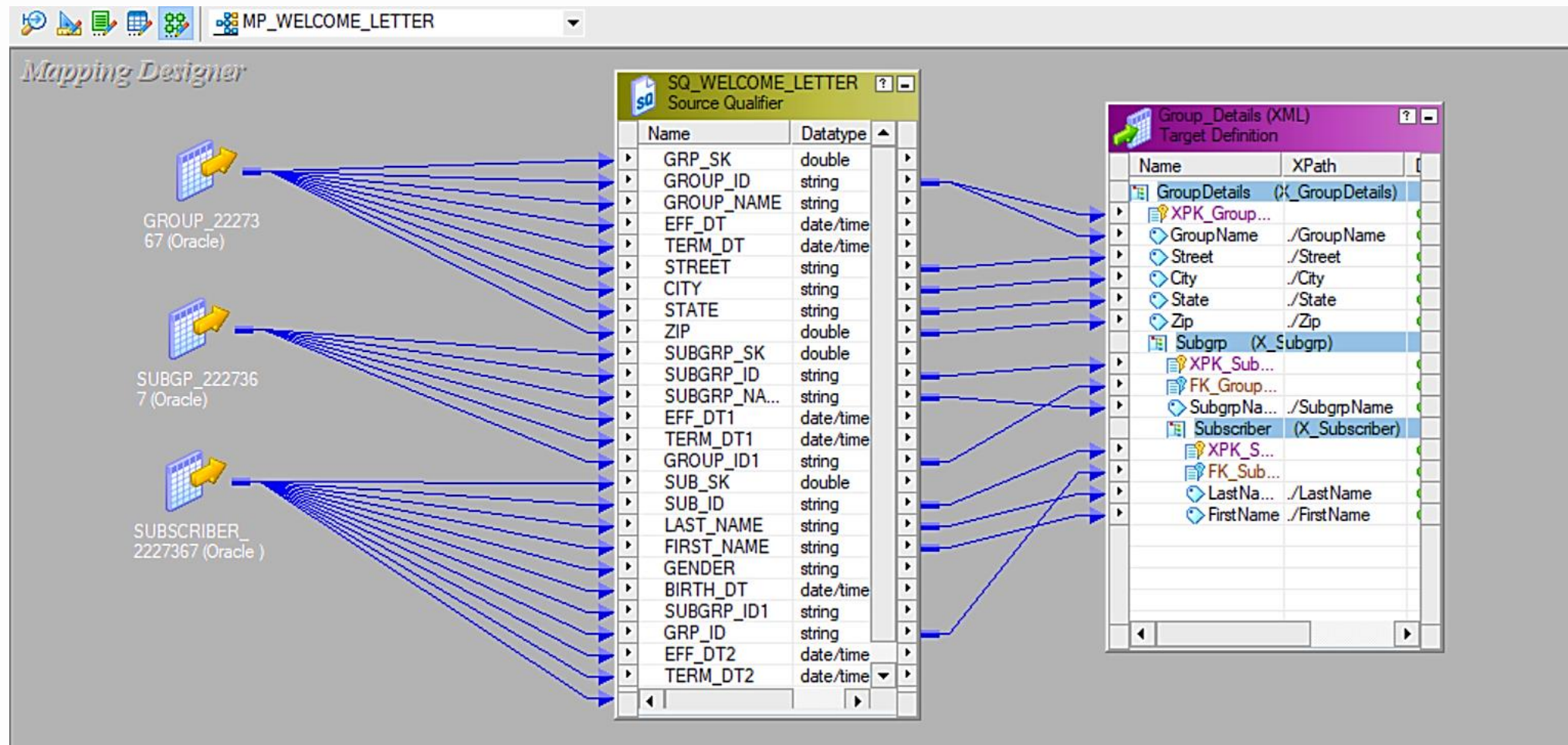
## Source Qualifier

-  
User Defined Join

GROUP.GROUP\_ID = SUBGRP.GROUP\_ID  
AND GROUP.GROUP\_ID = SUBSCRIBER.GRP\_ID  
AND SUBSCRIBER.SUBGRP\_ID = SUBGRP.SUBGRP\_ID

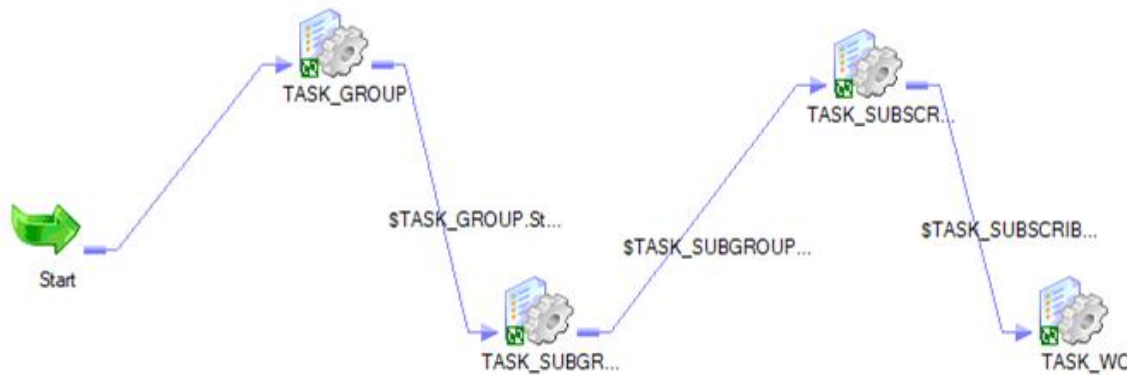
TARGET XML	SOURCE COLUMN
GROUP ID	GROUP.GROUP_ID
STREET	GROUP.STREET
CITY	GROUP.CITY
STATE	GROUP.STATE
ZIP	GROUP.ZIP
SUBGRPNAME	SUBGRP.SUBGRP_NAME
LASTNAME	SUBSCRIBER.LAST_NAME
FIRSTNAME	SUBSCRIBER.FIRST_NAME

# Mapping for Welcome module



# Workflow

WF\_004\_B (Final workflow)



Workflow Monitor

Informatica PowerCenter Workflow Monitor

Repository Edit View Tools Task Filters Help

1 Hour

Name	Duration	Status	7:00pm	8:00pm
Repositories				
RepoSvc				
IntSvc	00:21:31	Connected		
Project004B				
WF_004_B	00:00:35	Succeeded		
TASK_GROUP	00:00:09	Succeeded		
TASK_SUBGROUP	00:00:05	Succeeded		
TASK_SUBSCRIBER	00:00:04	Succeeded		
TASK_WC	00:00:05	Succeeded		

We carefully design a workflow which includes four tasks arranged in such a way that the task involving Group mapping is followed by task involving subgroup mapping and subscriber mapping in sequence. After all the data is created, the task to export XML document is followed. The XML outputs are given in the next slide.

# Welcome (output)

group\_details\_tgt.xml

group\_details\_tgt1.xml

group\_details\_tgt2.xml






group\_details\_tgt3.xml

```
<?xml version="1.0" encoding="WINDOWS-1252"?>
- <GroupDetails
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <GroupName>00012347</GroupName>
  <Street>THIRD ST </Street>
  <City>BUFFALO </City>
  <State>NEW YORK</State>
  <Zip>60125.0000</Zip>
</GroupDetails>
```

```
<?xml version="1.0" encoding="WINDOWS-1252"?
>
- <GroupDetails
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <GroupName>00012348</GroupName>
  <Street>FOURTH ST </Street>
  <City>KENTUCKY </City>
  <State>NEW YORK</State>
  <Zip>60126.0000</Zip>
</GroupDetails>
```

```
<?xml version="1.0" encoding="WINDOWS-1252"?>
- <GroupDetails
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <GroupName>00012351</GroupName>
  <Street>FIRST INTERSECTION </Street>
  <City>DALLAS </City>
  <State>TEXAS </State>
  <Zip>60129.0000</Zip>
  - <Subgrp>
    <SubgrpName>DIRECTORS</SubgrpName>
  </Subgrp>
</GroupDetails>
```

```
<?xml version="1.0" encoding="WINDOWS-1252"?>
- <GroupDetails
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <GroupName>00012352</GroupName>
  <Street>MORILIER ST </Street>
  <City>MIAMI </City>
  <State>FLORIDA </State>
  <Zip>60130.0000</Zip>
  - <Subgrp>
    <SubgrpName>WORKERS</SubgrpName>
  </Subgrp>
  - <Subgrp>
    <SubgrpName>ASSOCIATES</SubgrpName>
  </Subgrp>
  - <Subgrp>
    <SubgrpName>MANAGERS</SubgrpName>
  </Subgrp>
  - <Subgrp>
    <SubgrpName>HRS</SubgrpName>
  </Subgrp>
  - <Subgrp>
    <SubgrpName>ADMINS</SubgrpName>
    - <Subscriber>
      <LastName>ROBINSON</LastName>
      <FirstName>abd-al-qadir</FirstName>
    </Subscriber>
  </Subgrp>
  - <Subgrp>
    <SubgrpName>SECURITY</SubgrpName>
    - <Subscriber>
      <LastName>YOUNG</LastName>
      <FirstName>abegail</FirstName>
    </Subscriber>
    - <Subscriber>
      <LastName>EVANS</LastName>
      <FirstName>abishai</FirstName>
    </Subscriber>
    - <Subscriber>
      <LastName>REED</LastName>
      <FirstName>absolon</FirstName>
    </Subscriber>
  </Subgrp>
</GroupDetails>
```

 group_details_tgt.1.xml	09/03/2023 19:45	XML Document	1 KB
 group_details_tgt.2.xml	09/03/2023 19:45	XML Document	1 KB
 group_details_tgt.3.xml	09/03/2023 19:45	XML Document	1 KB
 group_details_tgt.xml	09/03/2023 19:45	XML Document	1 KB
 group_details_tgt.xml.lst	09/03/2023 19:45	LST File	1 KB



# Change Log

Version Number	Changes made			
V1.0	<b>Vanilla Version</b> <ul style="list-style-type: none"><li>- Naveen Anil Kumar (Welcome module)</li><li>- Riya Rachel Jose (Group module)</li><li>- Sartaj Khayyum Deshmukh (Subscriber module)</li><li>-Tarpan Das (Sub-group module)</li></ul>			
V1.1	Page no	Changed by	Effective date	Changes effected
	15	Naveen Anil Kumar, Riya Rachel Jose	06-03-2022	M_WELCOME (Mapping for Welcome Letter): Used Single Transformation (Source Qualifier) instead of 2 joiner, reducing the transformations
	8	Riya Rachel Jose, Tarpan Das	09-03-2022	M_SUBGRP (Mapping for Subgroup table): Made it more effective to collect proper reject records in a separate file

## Summary

- We used Informatica PowerCenter to design a workflow where we amalgamated subscriber details along with their group and subgroup details and created a mapping where the output is stored in XML files.
- We proposed multiple mapping designs for few of our tasks to illustrate our knowledge and understanding of informatica PowerCenter when it comes to providing multiple solutions to a problem.
- **Output:** We can sent welcome letter to people whoever is the subscriber using the XML outputs. This gives a validation to the right people.
- Also, the databases stored in the 3 tables can be used for other purposes.

