

Rank Transformation

Informatica Data Integration

m_Emp_Rank Valid

Design

Employee_Info → Rank → Emp_Target

Properties Preview Rank

General

Rank By: SALARY (decimal)

Incoming Fields

Rank Order: Top

Number of Rows

Parameterize Number of Rows: Not Parameterized

Number of Rows: 2

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Event Invitation - D x How to execute an x TietoVry - Datab x Data Integration x Editing IICS(Inform x Rank transformatio x +

apex1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/9WcINTAduCDfdyQUB34Ckn/edit

Informatica Data Integration apex 31 ?

m_Emp_Rank Valid Save Run

Properties Preview Rank

General Select fields to group by so that the resulting records can be set of rows with the same values for some fields

Incoming Fields Group By Fields

Field Name

Rank DEP_ID

Group By

Advanced

https://apex1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/#itb6_3

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--Rank--

SELECT * from Emp_Rank

Results 1 Results 2 Results 4 x

ELECT * from Emp_Rank Enter a SQL expression to filter results (use Ctrl+Space)

	123 RANKINDEX	123 ID	ABC NAME	123 SALARY	123 MANAGER_ID	123 DEP_ID
1	1	136	Hazel	2,200	122	50
2	2	132	TJ	2,100	121	50
3	1	100	Steven	24,000	[NULL]	90
4	2	101	Neena	17,000	100	90
5	1	108	Nancy	12,008	101	100
5	2	109	Daniel	9,000	108	100

Aggregate Transformation

The screenshot displays the Informatica Integration Designer interface for configuring an Aggregate Transformation. The top section shows the 'Design' view with a workflow diagram: Source → Aggregator → Target. The 'Properties' pane is open for the 'Aggregator' transformation.

Properties - Aggregator

- General:** Select fields to group by so that the resulting records can be set of rows with the same values for some fields.
- Group by:** Not Parameterized
- Group by Fields:** (+) (-) (v)
- Field Name:** DEP_ID

The bottom section shows the 'Source' transformation configuration. The 'Properties' pane is open for the 'Source' transformation.

Properties - Source

- General:** Details
- Source:** Connection: SQLServer_Anusha (SQL Server) [View... New Connection... New Parameter...]
- Fields:** Source Type: Single Object
- Partitions:** Object: EMPLOYEE_INFO [Select... Preview Data...]
- Query Options:**

The bottom status bar shows the URL: `loud.com/diUI/products/integrationDesign/#itb11_1`

m_Emp_Aggregate Valid Save Run

Design

Source Aggregator Target

Properties Preview Aggregator

General Create simple aggregate expressions. You can also use expression macros to create complex aggregate expressions.
☐ Allow additional fields and expressions during task creation

Incoming Fields

Group By

Aggregate

Field Name	Expression	Field Description
Sum_Salary	Sum(SALARY)	

Aggregate

Advanced

l.com/diUI/products/integrationDesign/#itb12_3

Tasks in IICS

New Asset ↗ ×

Select the type of asset you want. Some asset types include templates for common integration patterns.

Tasks

Mappings

Mapplets

Taskflows

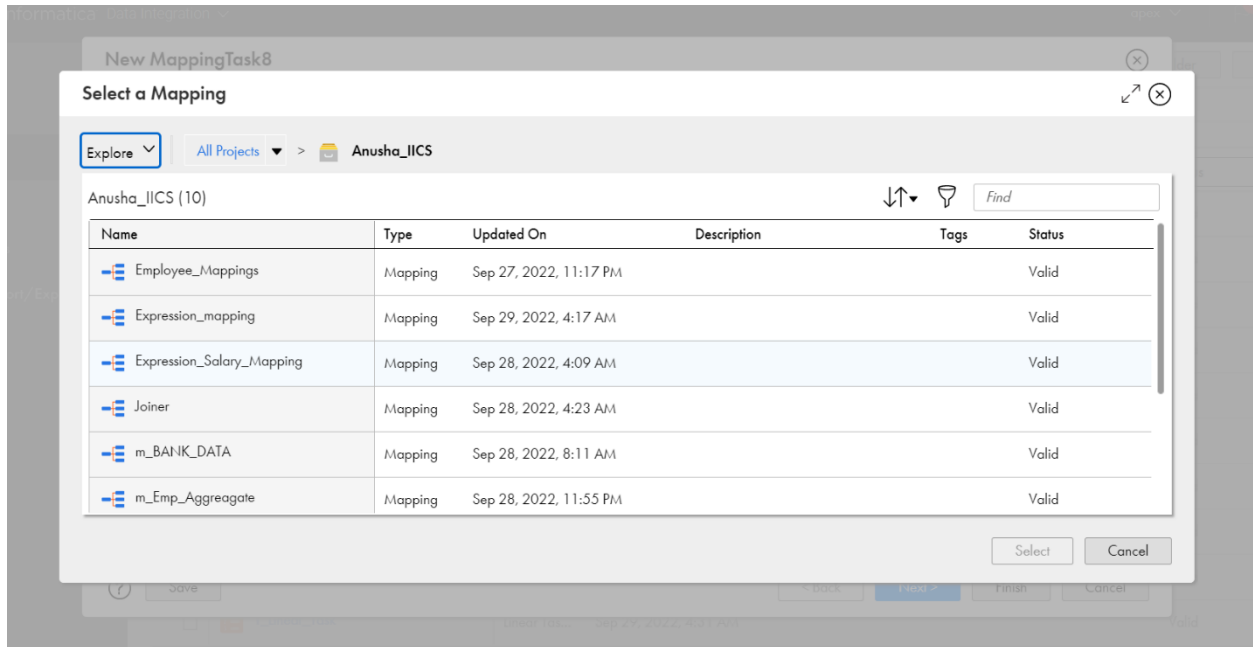
Components

- Mapping Task**
Process data based on the data flow logic defined in a mapping.
- Synchronization Task**
Synchronize data between a source and a target to integrate applications, databases, and files.
- Masking Task**
Mask source data and create a data subset of source data in a target.
- Replication Task**
Copy data from a Salesforce or database source to a database or file target.
- PowerCenter Task**
Import a PowerCenter workflow so you can run it as a Cloud Data Integration task.
- Dynamic Mapping Task**
Configure and run multiple data pipeline jobs from one mapping.
- Data Transfer Task**
Move data from a source to a target with some simple filters.

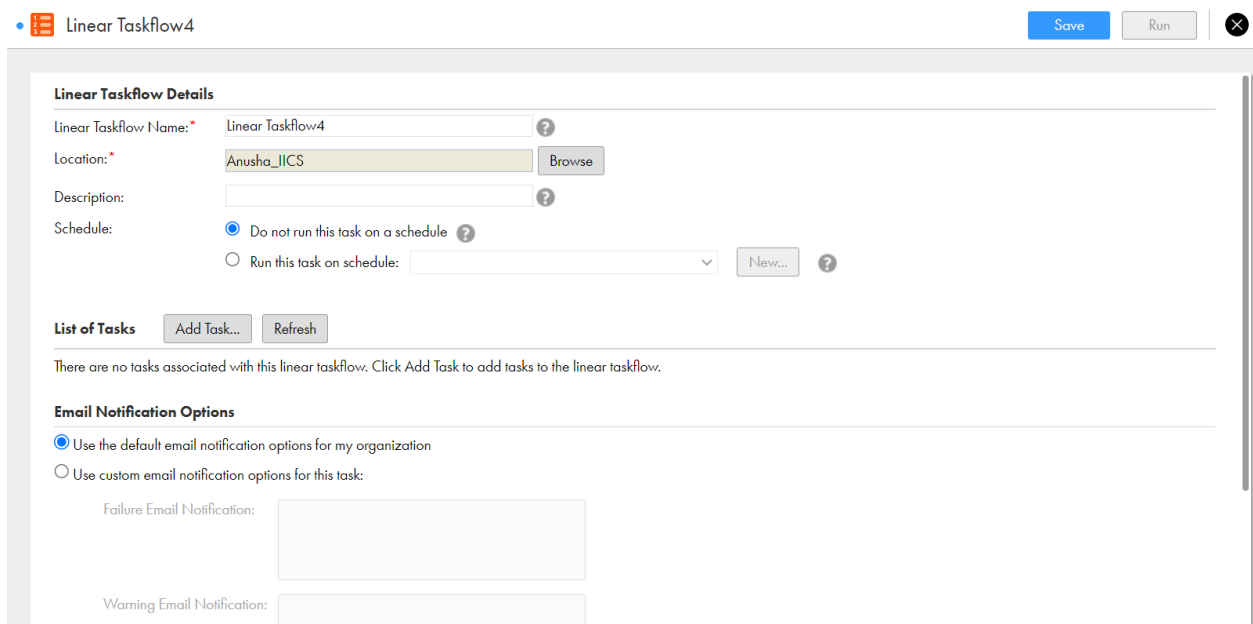
?

Create Cancel

Mapping Task



Linear Taskflow



Informatica Data Integration

apex

35

New...

Home

Explore

Bundles

My Jobs

My Import/Export Logs

Linear Taskflow4

T_Linear_Task

T_Linear_Task

EditRun

Linear Taskflow Details

Linear Taskflow Name:*T_Linear_Task

Location:*Anusha_ILCS

Description:

Schedule:

Created On:Sep 29, 2022 4:31:27 AM

Updated On:Sep 29, 2022 4:31:27 AM

Created By:anusha_shetty

Updated By:anusha_shetty

Last Run:Sep 29, 2022 4:31:41 AM

List of Tasks

Task Sequence:*Anusha_ILCS\m_Sorting_Task
Anusha_ILCS\m_Ranking_Task

Email Notification Options

Use the default email notification options for my organization

Started By: anusha_shetty through UI

Start Time: Sep 29, 2022 4:31:41 AM

End Time: Sep 29, 2022 4:38:04 AM

Duration: 6 minutes, 23 seconds

Individual Task Results

#	Task Name	End Time	Status	Success Rows	Errors	Error Message	Recommendation
1	m_Sorting_Task	Sep 29, 2022 4:33:32 AM	Success	107	0		
	Source			107	0		
	Sorting_Employee			107	0		
2	m_Ranking_Task	Sep 29, 2022 4:38:04 AM	Success	6	0		
	Employee_Info			14	0		
	Emp_Rank			6	0		

TaskFlow

Log	
Step	Duration (HH:MM:SS.s)
Start	00:00:00.0...
Expression Task	00:00:10.6...
Aggregate task	00:00:09.4...
End	00:00:00.0...

Variable

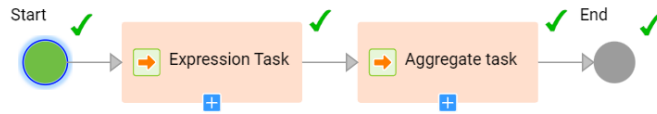
Name

Input

Temp

Design

Find



T_Exp_Agg_TaskFlow(Start) Properties

✔ Success

Current Run

Instance ID: 760353842984730624
 Status: Success
 Start Date: 2022/9/30 04:14:42.859 AM
 End Date: 2022/9/30 04:15:03.099 AM
 Duration (HH:MM:SS.sss): 00:00:20.240
 Username: ANUSHA_SHETTY

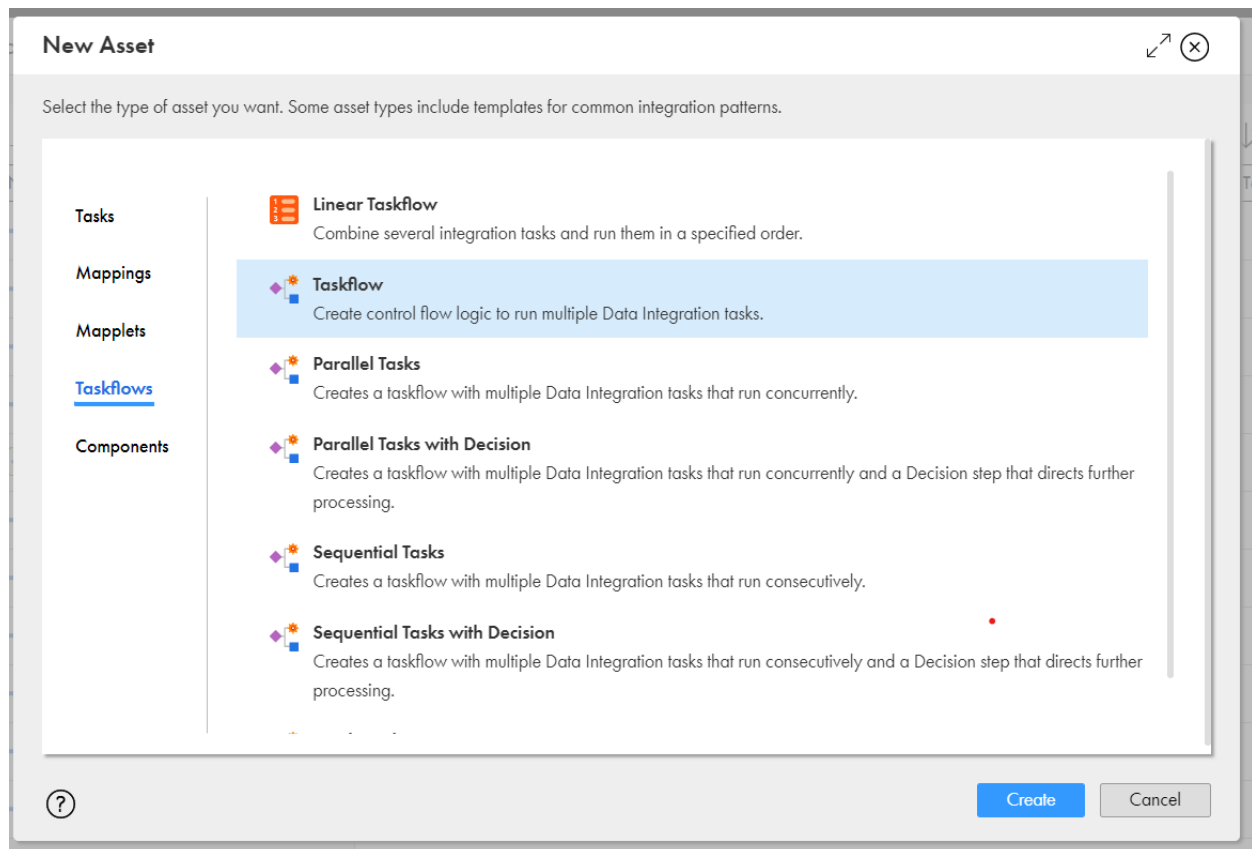
Input Fields

Jobs (2) ✔ Up to date

Updated 9:18:29 PM PDT

Find

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
m_Aggregate_Task-2	Anusha_IICS		Sep 29, 2022, 9:14 ...	Sep 29, 2022, ...	3	✔ Success
m_Expression_Task-3	Anusha_IICS		Sep 29, 2022, 9:14 ...	Sep 29, 2022, ...	7	✔ Success



SCD2


```
---Slowly changing dimension in IICS---
create table EMP_SCD
(
  EMP_ID INT primary key,
  EMP_NAME VARCHAR(50),
  EMP_SALARY DECIMAL(8,2),
  DEPT_ID INT
)

Insert into EMP_SCD values(100,'Jennifer',6000,10),
(101,'Micheal',8000,10)

CREATE TABLE Dim_Employees
(
  Employee_Key int,
  Employee_Id int,
  Name varchar(50),
  Salary decimal(8,2),
  Department_id int,
  Start_Date date,
  End_Date date,
  Checksum varchar(50)
)
```

Properties Preview  exp_Checksum

General

Create simple expressions. You can also use expression macros to create complex expressions.

☐ Allow additional fields and expressions during task creation

Incoming Fields

Expressions

Expression

Window

Advanced

Field Name	Expression	Field Description
O_EMPLOYEE_ID	EMP_ID	
O_NAME	EMP_NAME	
O_SALARY	EMP_SALARY	
O_DEPARTMENT_ID	DEPT_ID	
O_CHECKSUM	MD5(EMP_ID EMP_NAME EMP_SALARY DEPT_ID)	

General

Lookup Condition: Simple

Incoming Fields

Lookup Conditions

Lookup Object

Lookup Field	Operator	Incoming Field
Employee_Id	=	O_EMPLOYEE_ID

Lookup Condition

Return Fields

Advanced

Field Expression: Flag(string, 10, 0)



Configure the expression by adding fields, functions, and variables. Use Ctrl + Space to see a list of autocomplete options.

Expression: Not Parameterized

Fields

Employee_Key
Employee_Id
Name
Salary
Department_id
Start_Date
End_Date

Expression

```
1 IIF(ISNULL(Employee_Key),'I',
2   IIF(O_CHECKSUM!=Checksum,'IU')
3 )
```

Validate

Select a field to see detailed information about it.



OK

Cancel

Properties

Preview

Expn_Insert

General

Incoming Fields

Expression

Window

Advanced

Create simple expressions. You can also use expression macros to create complex expressions.

☐ Allow additional fields and expressions during task creation

Expressions

Field Name	Expression	Field Description
O_EMPLOYEE_KEY	NEXTVAL	
O_START_DATE	SYSDATE	
O_END_DATE	TO_DATE('9999-12-31','YYYY-MM-DD')	

CREATE TABLE Dim_Employees

(

Employee_Key int,

Employee_Id int,

Name varchar(50),

Salary decimal(8,2),

Department_id int,

Start_Date date,

End_Date date,

Checksum varchar(50)

)

Results 1 x

select * from Dim_Employees

Enter a SQL expression to filter results (use Ctrl+Space)

	Employee_Key	Employee_Id	Name	Salary	Department_id	Start_Date	End_Date	Checksum
1	1	100	Jennifer	6,000	10	2022-10-01	9999-12-31	C415847A64B48
2	2	101	Micheal	8,000	10	2022-10-01	9999-12-31	C26B6519FA4B0

Save

Cancel

Script

200

2

Rows: 0

2 row(s) fetched - 276ms. on 2022-10-01 at 08:56:12

```
update EMP_SCD set EMP_SALARY =10000 where emp_id=100
```

Results 1 Statistics 2 Results 3 ×

```
select * from EMP_SCD es
```

	EMP_ID	EMP_NAME	EMP_SALARY	DEPT_ID
1	100	Jennifer	10,000	10
2	101	Micheal	8,000	10

④ ----After running mapping in IICS----

```
SELECT * from Dim_Employees de
```

Results 1 Statistics 2 Results 3 Results 4 ×

SELECT * from Dim_Employees de Enter a SQL expression to filter results (use Ctrl+Space)

	123 Employee_Key	123 Employee_Id	ASC Name	123 Salary	123 Department_id	Start_Date	End_Date	ASC Checksum
1	1	100	Jennifer	6,000	10	2022-10-01	2022-10-01	C415847A64B48A35B0410DE6E848890D
2	2	101	Micheal	8,000	10	2022-10-01	9999-12-31	C2686519FA4B0A3436478B70A8EC6200
3	1	100	Jennifer	10,000	10	2022-10-01	9999-12-31	F685A99813B1A98E809EC1487DF82563

Union Transformation

---Union---

```
select * from student
```

Results 12 ×

select * from student Enter a SQL expression to filter results (use Ctrl+Space)

123	STUD_ID	STUD_NAME	STUD_DOB	123	SUB_ID
	2,001	JOHN	2001-01-15		1
	2,002	RITHA	2000-05-13		2
	2,003	RAMYA	2000-06-20		1
	2,004	RICHARD	1999-06-22		3
	2,005	MARY	1999-02-19		4
	2,006	MILLY	2000-07-09		6

---Union---

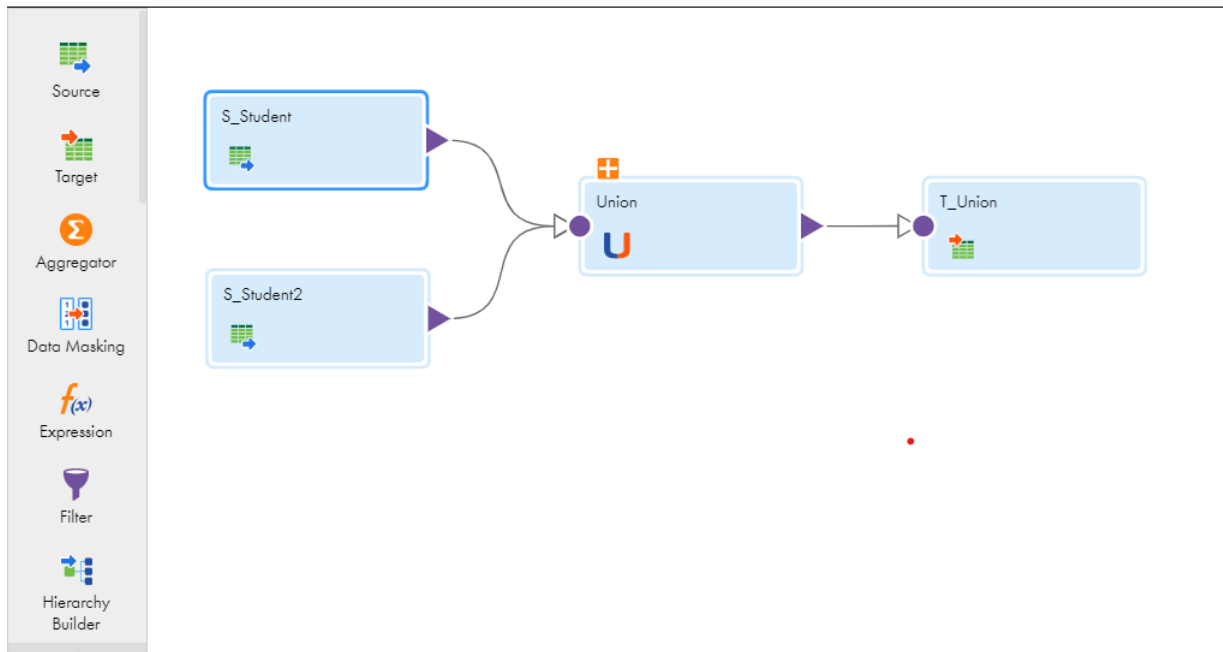
```
select * from student2
```

Results 12 × Results 2 ×

select * from student2 Enter a SQL expression to filter results (use Ctrl+Space)

	123	STUD_ID	STUD_NAME	STUD_DOB	123	SUB_ID
1		2,001	JOHN	2001-01-15		1
2		2,002	RITHA	2000-05-13		2
3		2,003	RAMYA	2000-06-20		1
4		2,004	RICHARD	1999-06-22		3
5		2,005	MARY	1999-02-19		4
6		2,006	MILLY	2000-07-09		6

Design



Properties

Preview

Union

General

Incoming Fields

Output Fields

Field Mapping

Advanced

▼ Stud1

IncludeAll FieldsRename...

▼ Stud2

IncludeAll FieldsRename...

Included FieldsExcluded Fields

Field Name	Type	Precision	Scale	Origin
▼ Stud1 (4)				
STUD_DOB	date/time	29	9	STUDENT2
STUD_ID	integer	10	0	STUDENT2
STUD_NAME	string	20	0	STUDENT2
SUB_ID	integer	10	0	STUDENT2
▼ Stud2 (4)				
STUD_DOB	date/time	29	9	STUDENT
STUD_ID	integer	10	0	STUDENT
STUD_NAME	string	20	0	STUDENT
SUB_ID	integer	10	0	STUDENT