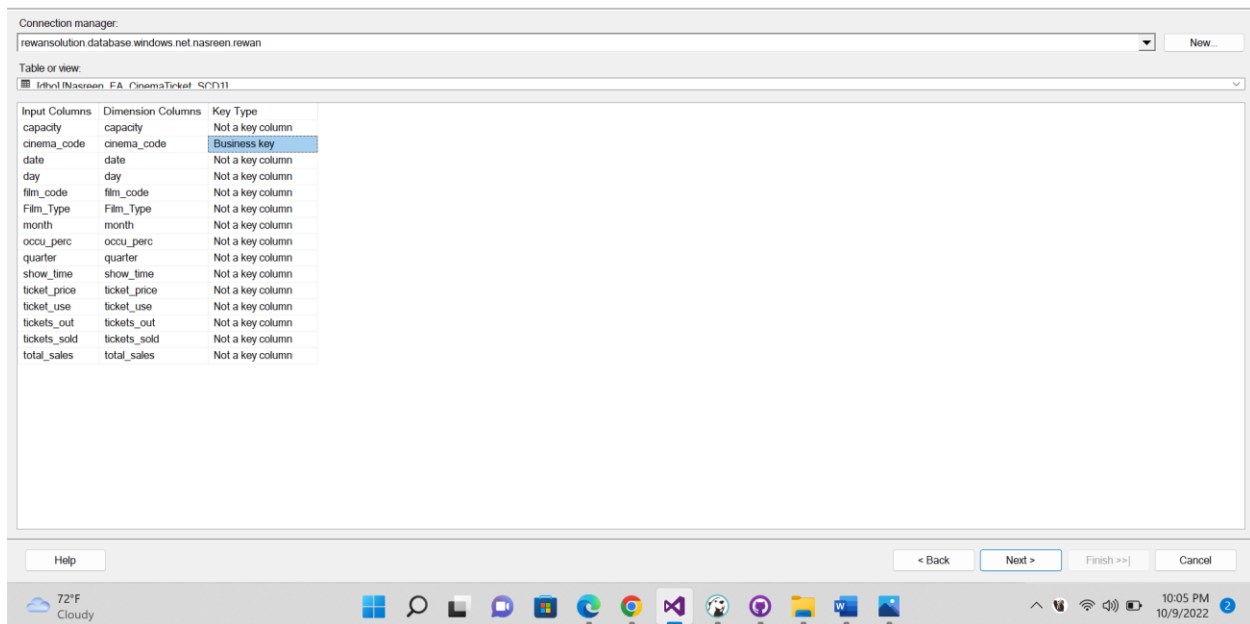


#### Slowly Changing Dimension Wizard

##### Select a Dimension Table and Keys

Select a dimension table to load and map columns in the transformation input to columns in the dimension table.



## Slowly Changing Dimension Columns

Manage the changes to column data in your slowly changing dimensions by setting the change type for dimension columns.

## Fixed Attribute

Select this type when the value in a column should not change. Changes are treated as errors.

## Changing Attribute

Select this type when changed values should overwrite existing values. This is a Type 1 change.

## Historical Attribute

Select this type when changes in column values are saved in new records. Previous values are saved in records marked as outdated. This is a Type 2 change.

Select a change type for slowly changing dimension columns.

Dimension Columns	Change Type
film_code	Changing at...
Film_Type	Changing at...

Remove

Help

&lt; Back

Next &gt;

Finish &gt;&gt;

Cancel

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Cloudy10:05 PM  
10/9/2022

## Fixed and Changing Attribute Options

## Fixed attributes

☐ Fail the transformation if changes are detected in a fixed attribute

## Changing attributes

☒ Change all the matching records, including outdated records, when changes are detected in a changing attribute

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Next &gt;

Finish &gt;&gt;

Cancel

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**Inferred Dimension Members**

Use inferred members when a fact table may reference dimension members that are not yet loaded.

When data for the inferred member is loaded, you can update the existing record rather than create a new one.

☒ Enable inferred member support

☒ All columns with a change type are null

☐ Use a Boolean column to indicate whether the current record is an inferred member

Inferred member indicator:

Help

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Finish >>|

Cancel

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10:05 PM  
10/9/2022

**Finish the Slowly Changing Dimension Wizard**

Review the outputs that the Slow Changing Dimension Wizard will build to support a slowly changing dimension.

The following outputs will be configured:

Slowly Changing Dimension Transformation

New Records

New Record Output

Updates

Changing Attributes Updates Output

Inferred Dimension Member Output

Other Outputs

Help

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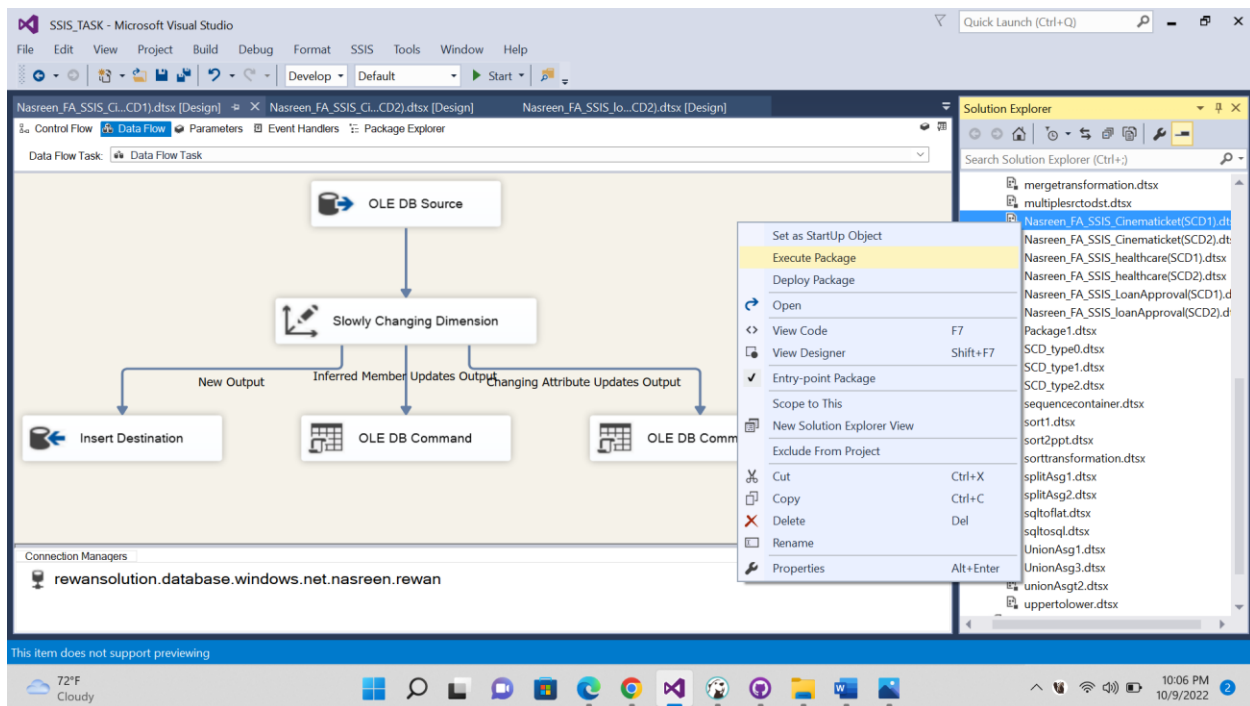
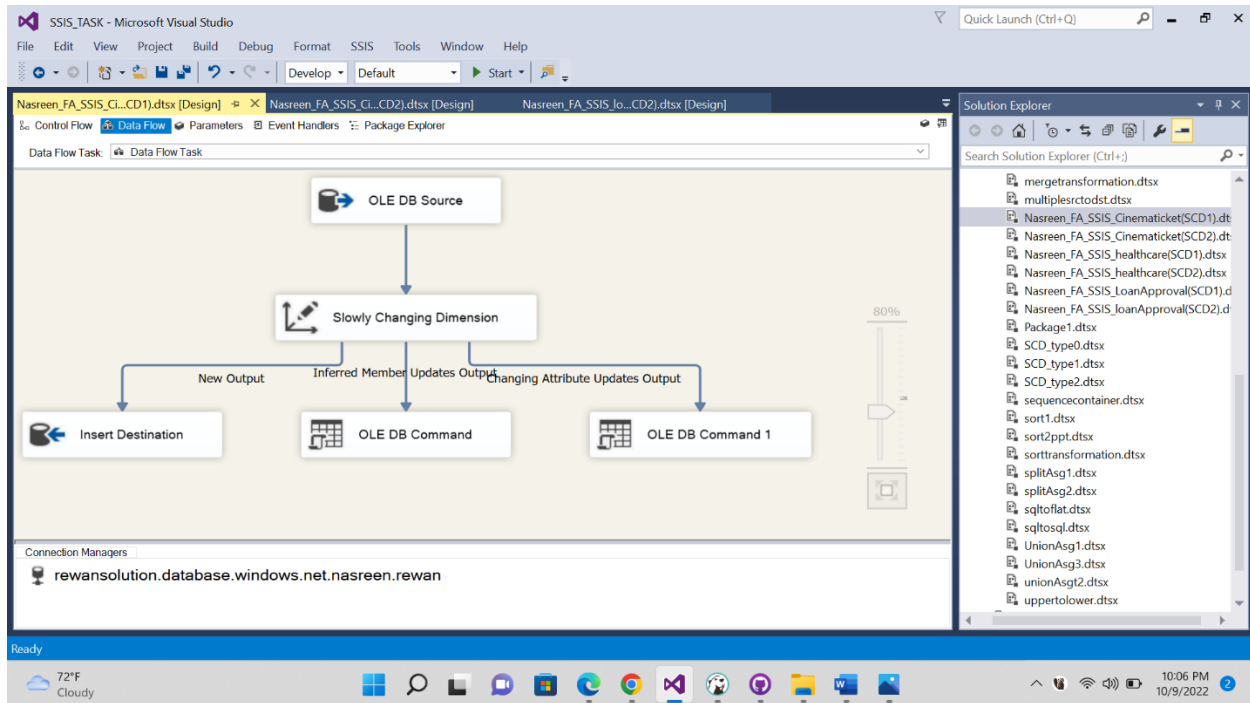
Finish

Cancel

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Cloudy



10:05 PM  
10/9/2022



SSIS\_TASK (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [3888] DtsDebugHost.exe Lifecycle Events Thread: Stack Frame:

Nasreen\_FA\_SSIS\_GL\_CD1.dtsx [Design] Nasreen\_FA\_SSIS\_GL\_CD2.dtsx [Design] Nasreen\_FA\_SSIS\_lo\_CD2.dtsx [Design] Nasreen\_FA\_SSIS\_he\_CD2.dtsx [Design]

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task Data Flow Task

```

graph TD
    OLEDBSource[OLE DB Source] -- "2,543 rows" --> SCD[Slowly Changing Dimension]
    SCD -- "New Output (2,543 rows)" --> InsertDest[Insert Destination]
    SCD -- "Inferred Member Updates Output" --> OLEDBCommand[OLE DB Command]
    SCD -- "Changing Attribute Updates Output" --> OLEDBCommand1[OLE DB Command 1]
  
```

Connection Managers  
rewansolution.database.windows.net.nasreen.rewan

Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.

Locals Watch 1 Output

Ready

72°F Cloudy 10:13 PM 10/9/2022

DBaiver 22.2.0 - <nasreen> Cinema ticket

File Edit Navigate Search SQL Editor Database Window Help

Auto nasreen dbo@nasreen

Database Navigator Projects

Enter a part of object name here

dlithe - rewansolution.database.windows.net:1433

nasreen - rewansolution.database.windows.net:1433

oracle-88094-0.cloudclusters.net - oracle-88094-0

```

[ tickets_out ] float,
[ show_time ] float,
[ occu_perc ] float,
[ ticket_price ] float,
[ ticket_use ] float,
[ capacity ] float,
[ date ] float,
[ month ] float,
[ quarter ] float,
[ day ] float
)

select * from Nasreen_FA_CinemaTicket_SCD
  
```

Results 1

select \* from Nasreen\_FA\_CinemaTicket\_SC

	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket
1	Action	2,020	304	3,900,000	26	0	4	4.26	150,000	
2	Romance	1,492	352	3,360,000	42	0	5	8.08	80,000	
3	Romance	1,492	489	2,560,000	32	0	4	20	80,000	
4	Romance	1,492	429	1,200,000	12	0	1	11.01	100,000	
5	Romance	1,492	524	1,200,000	15	0	3	16.67	80,000	
6	Action	2,120	71	1,050,000	7	0	3	0.98	150,000	
7	Romance	1,492	163	1,020,000	10	0	3	7.69	102,000	
8	Romance	1,492	450	750,000	5	0	3	1.57	150,000	
9	Romance	1,492	51	750,000	11	0	2	0.95	68,181.81818	
10	Romance	1,492	522	600,000	4	0	2	1.55	150,000	

Save Cancel Script 200+ Rows: 1 200 row(s) fetched - 232ms (15ms fetch), on 2022-11-10 10:14 PM 10/9/2022

DBaver 22.2.0 - <nasreen> Cinema ticket

File Edit Navigate Search SQL Editor Database Window Help

Auto nasreen dbo@nasreen

Database Navigator Projects

Enter a part of object name here

dlithe - rewasolution.database.windows.net:1433

nasreen - rewasolution.database.windows.net:143

oracle-88094-0.cloudclusters.net - oracle-88094-0

```

[quarter] float,
[day] float
)

select * from Nasreen_FA_CinemaTicket_SCD1

```

Results 1 x

select \* from Nasreen\_FA\_CinemaTicket\_SCD1

	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket
1	Action	2,020	304	3,900,000	26	0	4	4.26	150,000	
2	Romance	1,492	352	3,360,000	42	0	5	8.08	80,000	
3	Romance	1,492	489	2,560,000	32	0	4	20	80,000	
4	Romance	1,492	429	1,200,000	12	0	1	11.01	100,000	
5	Romance	1,492	524	1,200,000	15	0	3	16.67	80,000	
6	Action	2,120	71	1,050,000	7	0	3	0.98	150,000	
7	Romance	1,492	163	1,020,000	10	0	3	7.69	102,000	
8	Romance	1,492	450	750,000	5	0	3	1.57	150,000	
9	Romance	1,492	51	750,000	11	0	2	0.95	68,181.81818	
10	Romance	1,492	522	600,000	4	0	3	1.55	150,000	

Save Cancel Script IST en Writable Smart Insert 200 200+ Rows: 1 200 row(s) fetched - 232ms (15ms fetch), on 2022-10-09 at 10:14 PM

72°F Cloudy

DBaver 22.2.0 - <nasreen> Cinema ticket

File Edit Navigate Search SQL Editor Database Window Help

Auto nasreen dbo@nasreen

Database Navigator Projects

Enter a part of object name here

dlithe - rewasolution.database.windows.net:1433

nasreen - rewasolution.database.windows.net:143

oracle-88094-0.cloudclusters.net - oracle-88094-0

```

[quarter] float,
[day] float
)

select * from Nasreen_FA_CinemaTicket

--update Nasreen_FA_CinemaTicket set film_type='Action',film_code=2120
--where cinema_code='71';

update Nasreen_FA_CinemaTicket set film_type='Triller',film_code=2025
where cinema_code=304;

-----target table-----

```

Results 1 x

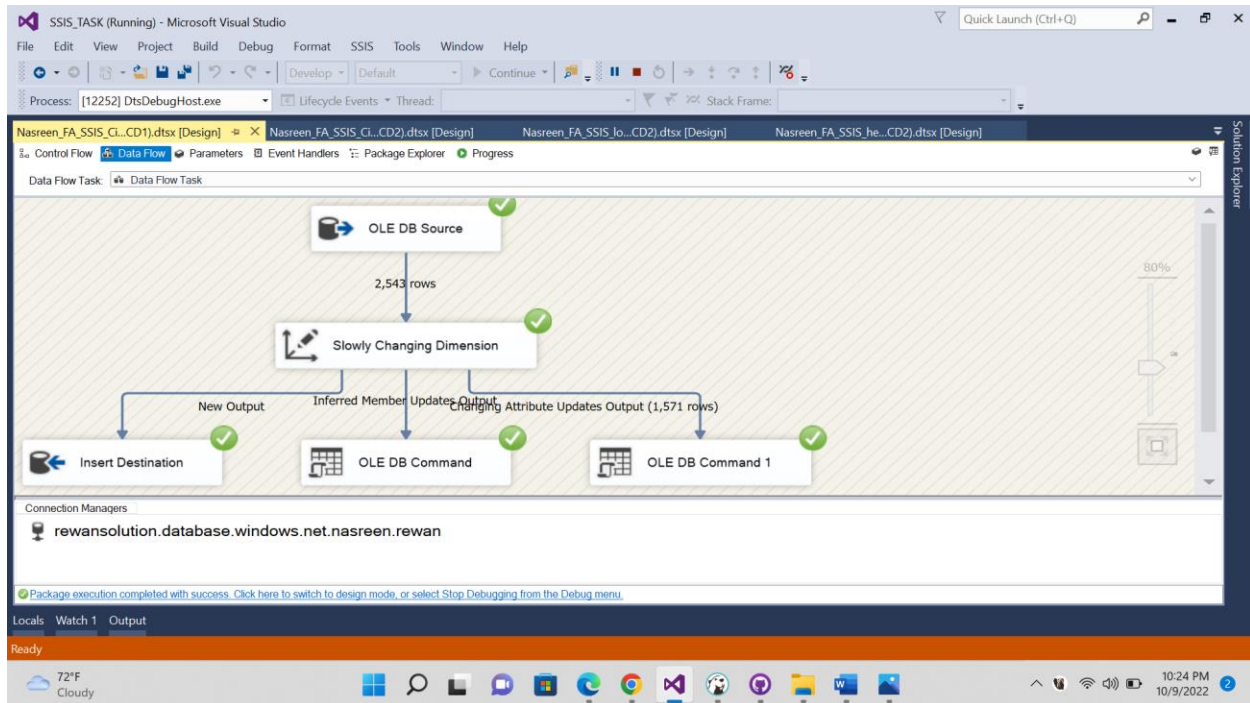
select \* from Nasreen\_FA\_CinemaTicket

	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket
1	Action	2,020	304	3,900,000	26	0	4	4.26	150,000	
2	Romance	1,492	352	3,360,000	42	0	5	8.08	80,000	
3	Romance	1,492	489	2,560,000	32	0	4	20	80,000	
4	Romance	1,492	429	1,200,000	12	0	1	11.01	100,000	
5	Romance	1,492	524	1,200,000	15	0	3	16.67	80,000	
6	Action	2,120	71	1,050,000	7	0	3	0.98	150,000	
7	Romance	1,492	163	1,020,000	10	0	3	7.69	102,000	
8	Romance	1,492	450	750,000	5	0	3	1.57	150,000	
9	Romance	1,492	51	750,000	11	0	2	0.95	68,181.81818	
10	Romance	1,492	522	600,000	4	0	3	1.55	150,000	

Save Cancel Script IST en Writable Smart Insert 200 22:29:496 Rows: 1 200 row(s) fetched - 239ms, on 2022-10-09 at 22:15

72°F Cloudy





DBaiver 22.2.0 - <nasreen> Cinema ticket

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator: <nasreen> Cinema ticket

Enter a part of object name here

SQL Script:

```
[quarter] float,
[day] float
)

select * from Nasreen_FA_CinemaTicket

--update Nasreen_FA_CinemaTicket set film_type='Action',film_code=2120
--where cinema_code='71';

update Nasreen_FA_CinemaTicket set film_type='Triller',film_code=2025
where cinema_code=304;

-----target table-----
```

Results 1 x

select \* from Nasreen\_FA\_CinemaTicket

	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket
1	Triller	2,025	304	3,900,000	26	0	4	4.26	150,000	
2	Fiction	1,481	352	3,360,000	42	0	5	8.08	80,000	
3	Fiction	1,481	489	2,560,000	32	0	4	20	80,000	
4	Family	1,483	429	1,200,000	12	0	1	11.01	100,000	
5	Fiction	1,481	524	1,200,000	15	0	3	16.67	80,000	
6	Action	2,120	71	1,050,000	7	0	3	0.98	150,000	
7	Fiction	1,481	163	1,020,000	10	0	3	7.69	102,000	
8	Action	1,482	450	750,000	5	0	3	1.57	150,000	
9	Family	1,483	51	750,000	11	0	2	0.95	68,181.81818	
10	Fiction	1,481	522	600,000	4	0	2	1.55	150,000	

Save Cancel Script IST en Writable Smart Insert 200+ Rows: 1 200 row(s) fetched - 223ms, on 2022-10-09 at 22:25 Set: 0 | 0

72°F Cloudy



