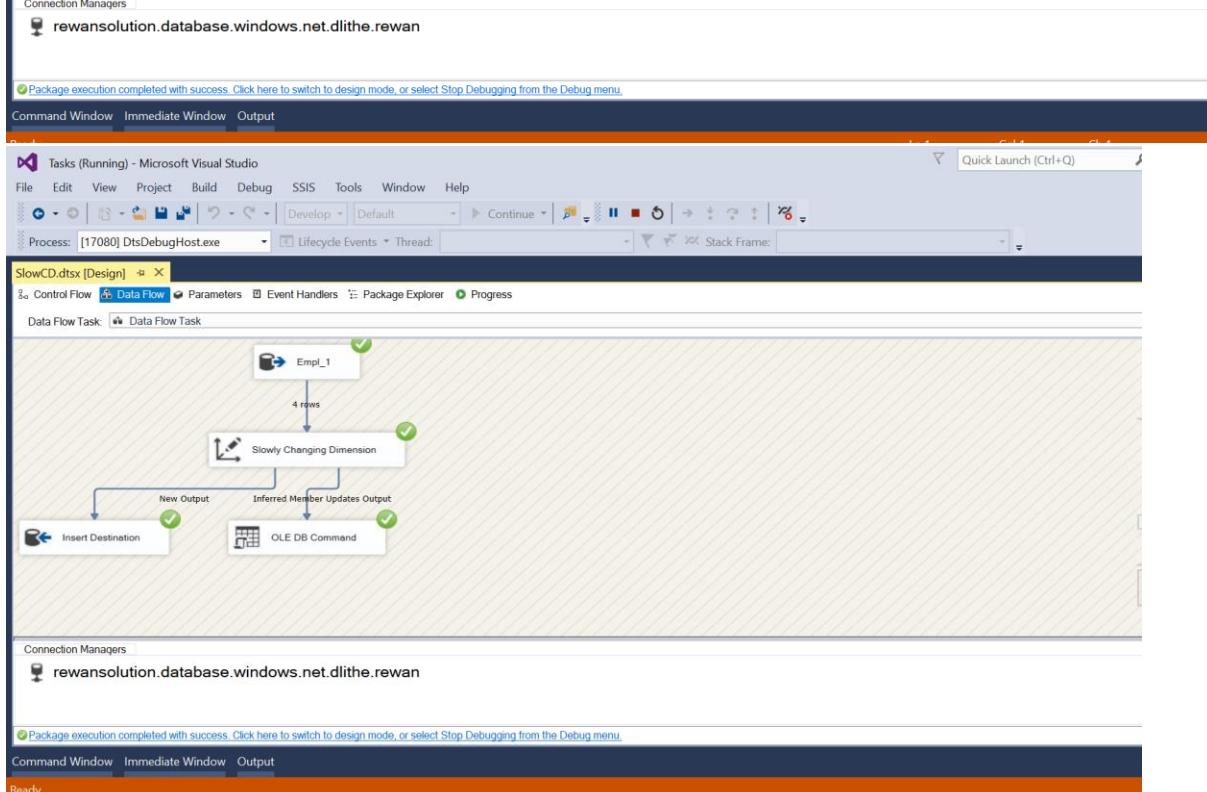
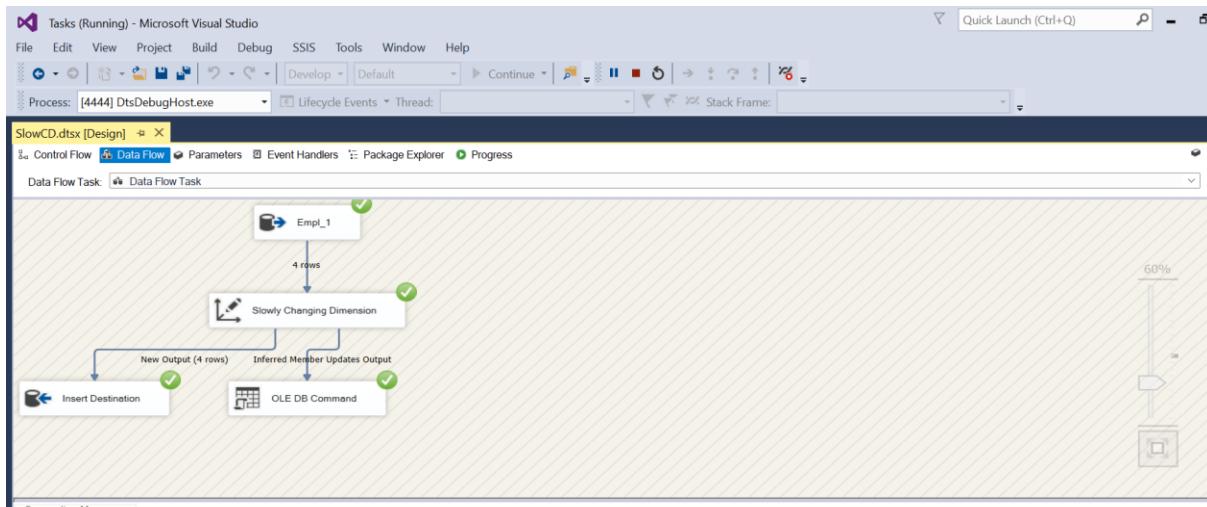


Type0, Type-1 and Type-2.

Create Source and Target tables in database.

Type-0



DBeaver 22.2.0 - <dlithe> Script-5

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator

Enter a part of object name here

Databases

- > **dlithe** - *rewansolution.database.windows.net:*
- > Security
- > Administer
- > oracle-88094-0.cloudclusters.net - *oracle-88094*

```

CREATE TABLE ANS_EMPL1
(
  ID INT,
  NAME VARCHAR(20),
  AGE INT,
  SALARY INT);

INSERT INTO ANS_EMPL1 VALUES(101,'JOHN',27,20000);

INSERT INTO ANS_EMPL1 VALUES
(102,'MEGHANA',22,10000),
(103,'RAMYA',25,21000),
(104,'RITHA',23,23000)

SELECT * FROM ANS_EMPL_TAR aet
  
```

Results 1 ×

SELECT * FROM ANS_EMPL_TAR aet

ID	NAME	AGE	SALARY
1	JOHN	27	20,000
2	MEGHANA	22	10,000
3	RAMYA	25	21,000
4	RITHA	23	23,000

Project - General

- Name: DataSource
- Diagrams
- Scripts

 - Script-1.sql
 - Script-2.sql
 - Script-3.sql
 - Script-4.sql**

Tasks (Running) - Microsoft Visual Studio

File Edit View Project Build Debug SSIS Tools Window Help

Process: [17080] DtsDebugHost.exe

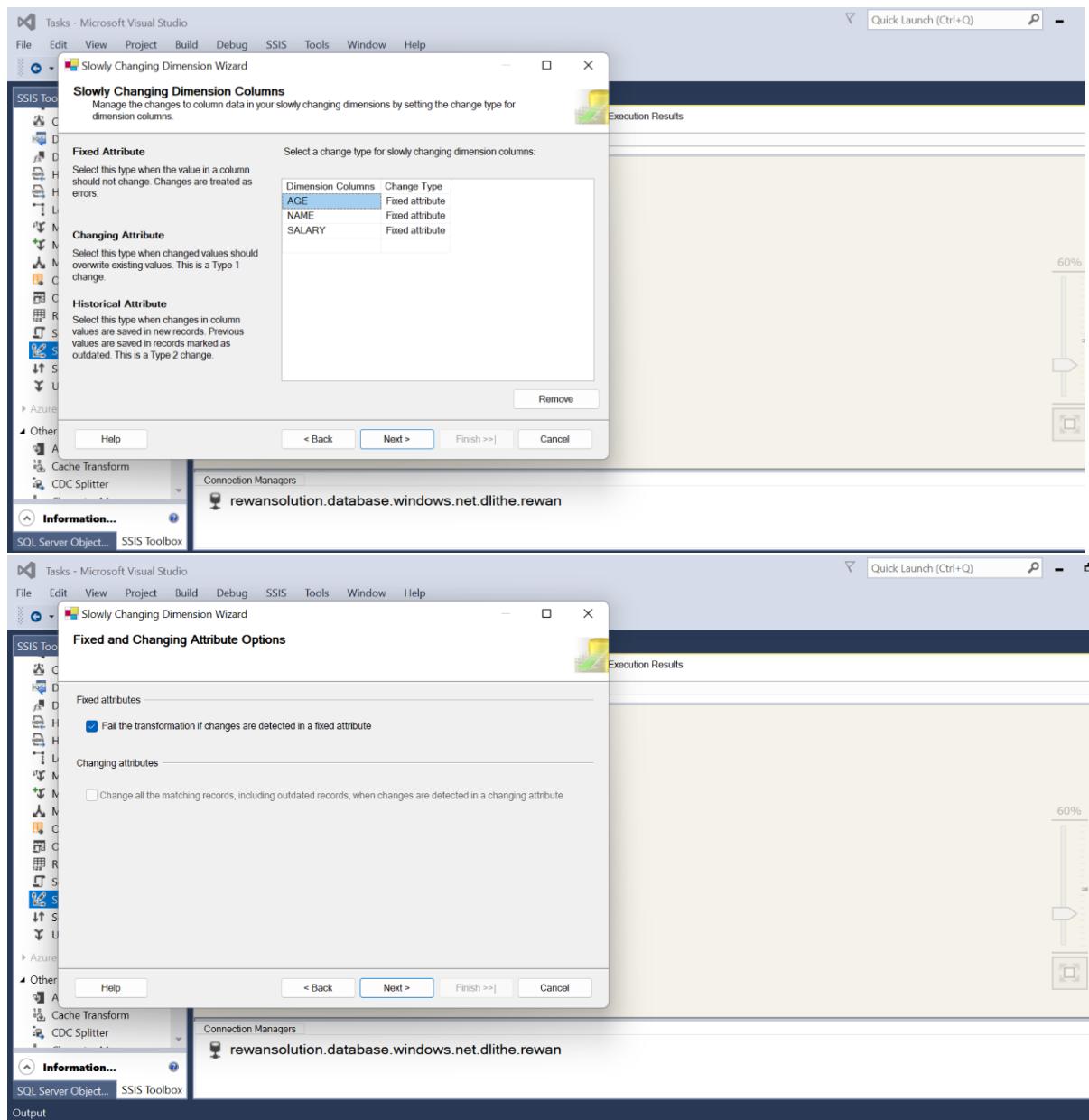
SlowCD.dtsx [Design] ×

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task: Data Flow Task

```

graph TD
    Emp_1[OLE DB Source: Emp_1] -- "4 rows" --> SCD[Slowly Changing Dimension]
    SCD --> NewOutput[New Output]
    SCD --> InferredOutput[Inferred Member Updates Output]
    NewOutput --> InsertDest[Insert Destination]
    InferredOutput --> OLEDBCmd[OLE DB Command]
  
```



DBBeaver 22.2.0 - <dlithe> Script-5

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator | Auto | Commit | Rollback | dbe@dlithe | dbo@dlithe | ANS_EMPLOYEE | ANS_EMPLOYEE1 | ANS_EMPL_TAR |

Enter a part of object name here

Databases > dlithe - rewsolutions.database.windows.net:1433

Security

Administrator

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

```
AGE INT,  
SALARY INT);  
  
INSERT INTO ANS_EMPL1 VALUES(101,'JOHN',27,20000);  
  
= INSERT INTO ANS_EMPL1 VALUES  
(102,'MEGHANA',22,10000),  
(103,'RAMYA',25,21000),  
(104,'RITHA',23,23000)  
  
SELECT * FROM ANS_EMPL_TAR aet  
  
TRUNCATE TABLE ANS_EMPL_TAR  
  
UPDATE ANS_EMPL1 SET SALARY =30000 WHERE ID=101;
```

Results 1 | SELECT * FROM ANS_EMPL_TAR aet | Enter a SQL expression to filter results (use Ctrl+Space)

ID	NAME	AGE	SALARY
1	101 JOHN	27	20.000
2	102 MEGHANA	22	10.000
3	103 RAMYA	25	21.000
4	104 RITHA	23	23.000

Save Cancel Script Grid Text Record | IST en Writable | Smart Insert | Rows: 1 | 4 row(s) fetched - 427ms (16ms fetch), on 2022-09-22 | 439 : 49 : 9326 | Sel: 0 | 0

DBBeaver 22.2.0 - <dlithe> Script-5

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator | Auto | Commit | Rollback | dbe@dlithe | dbo@dlithe | ANS_EMPLOYEE | ANS_EMPLOYEE1 | ANS_EMPL_TAR |

Enter a part of object name here

Databases > dlithe - rewsolutions.database.windows.net:1433

Security

Administrator

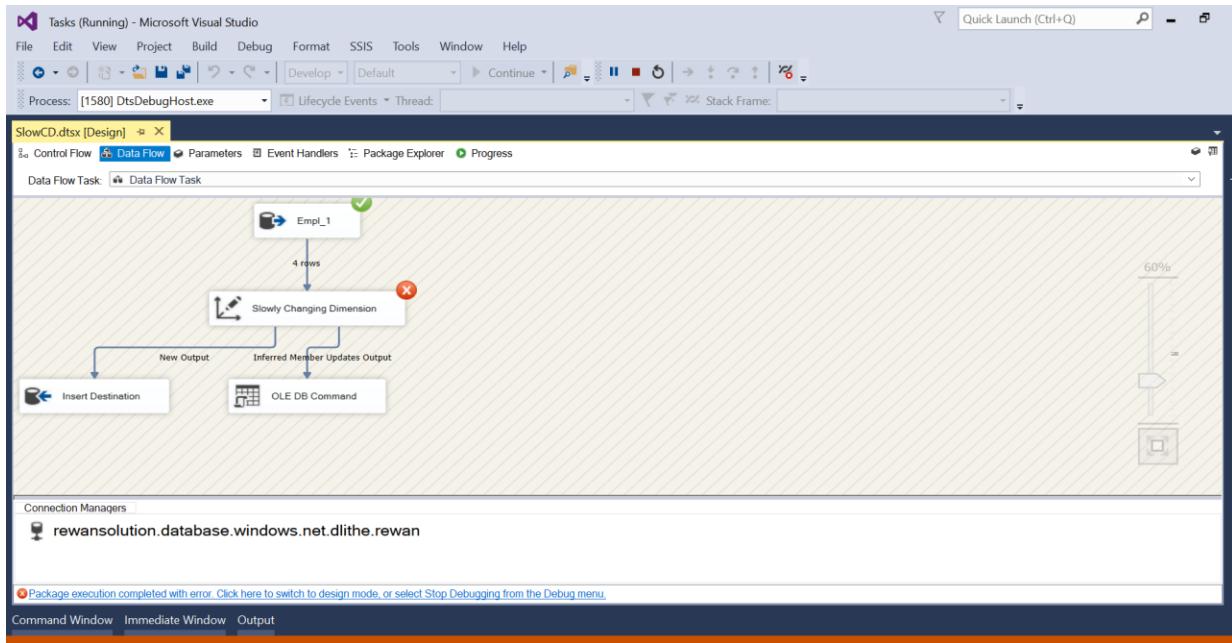
oracles-88094-0.cloudclusters.net - oracle-88094

```
AGE INT,  
SALARY INT);  
  
INSERT INTO ANS_EMPL1 VALUES(101,'JOHN',27,20000);  
  
= INSERT INTO ANS_EMPL1 VALUES  
(102,'MEGHANA',22,10000),  
(103,'RAMYA',25,21000),  
(104,'RITHA',23,23000)  
  
SELECT * FROM ANS_EMPL1 aet  
  
TRUNCATE TABLE ANS_EMPL_TAR  
  
UPDATE ANS_EMPL1 SET SALARY =30000 WHERE ID=101;
```

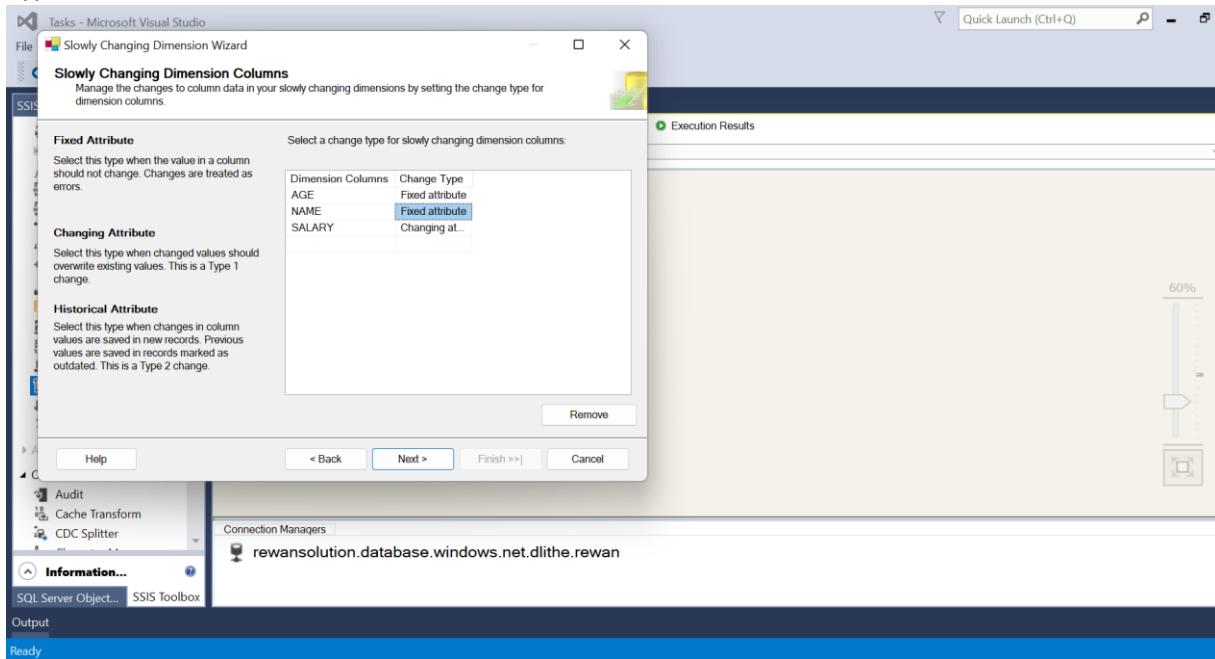
Results 1 | SELECT * FROM ANS_EMPL1 aet | Enter a SQL expression to filter results (use Ctrl+Space)

ID	NAME	AGE	SALARY
1	101 JOHN	27	30.000
2	102 MEGHANA	22	10.000
3	103 RAMYA	25	21.000
4	104 RITHA	23	23.000

Save Cancel Script Grid Text Record | IST en Writable | Smart Insert | Rows: 1 | 4 row(s) fetched - 365ms, on 2022-09-22 at 21:13:36 | 434 : 25 : 9233 | Sel: 0 | 0



Type1:



Tasks (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [18804] DtsDebugHost.exe Lifecycle Events Thread: Stack Frame:

SlowCD.dtsx [Design] Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task: Data Flow Task

```

graph TD
    Emp1[OLE DB Command: Emp_1] -- "4 rows" --> SCD[Slowly Changing Dimension]
    SCD -- New Output --> InsertDest[Insert Destination]
    SCD -- Inferred Member --> OLEDB1[OLE DB Command: OLE DB Command 1]
    SCD -- Existing Attribute Updates Output (1 rows) --> OLEDB1
    
```

Connection Managers: rewansolution.database.windows.net.dlithe.rewan

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

Command Window Immediate Window Output

DBBeaver 22.2.0 - <dlithe> Script-5

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator

Enter a part of object name here

dlithe - rewansolution.database.windows.net:

- Databases
 - dlithe
 - Security
 - Administrator
 - oracle-88094-0.cloudclusters.net - oracle-880

SQL Editor

```


AGE INT,
SALARY INT;

INSERT INTO ANS_EMPL1 VALUES(101,'JOHN',27,20000);
INSERT INTO ANS_EMPL1 VALUES
(102,'MEGHANA',22,10000),
(103,'RAMYA',25,21000),
(104,'RITHA',23,23000)

SELECT * FROM ANS_EMPL_TAR aet


```

Results 1

ID	NAME	AGE	SALARY
1	JOHN	27	30,000
2	MEGHANA	22	10,000
3	RAMYA	25	21,000
4	RITHA	23	23,000

Project - General

- Name: DataSource
- Diagrams
- Scripts
 - Script-1.sql: dlithe
 - Script-2.sql: oracle-88094
 - Script-3.sql: dlithe
 - Script-4.sql: dlithe

Type2:

DBeaver 22.2.0 - <anusha> Script-7

File Edit Navigate Search SQL Editor Database Window Help

Enter a part of object name here

Databases anusha Schemas dbo Tables EMPLOYEE External Tables Views Indexes Procedures Sequences Synonyms Triggers Data Types Database triggers Security Administrator

Project - General Name DataSource Bookmarks Diagrams Scripts

```
CREATE TABLE EMPLOYEE (
    ID INT,
    NAME VARCHAR(20),
    PLACE VARCHAR(20),
    SALARY INT,
    DEPT VARCHAR(10),
    START_DATE DATE,
    END_DATE DATE,
    STATUS VARCHAR(30));
```

Results 1

ID	NAME	PLACE	SALARY	DEPT	START_DATE	END_DATE	STATUS
101	JOHN	Bangalore	20,000	Sales	[NULL]	[NULL]	[NULL]
102	RITHA	Mangalore	30,000	IT	[NULL]	[NULL]	[NULL]

Save Cancel Script IST en Writable Smart Insert 18:28:328 Sel 0 | 0

75°F Mostly sunny 11:28 AM 9/23/2022

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [16340] DtsDebugHost.exe Lifecycle Events Thread:

SCD_Type2.dtsx [Design]

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task: Data Flow Task

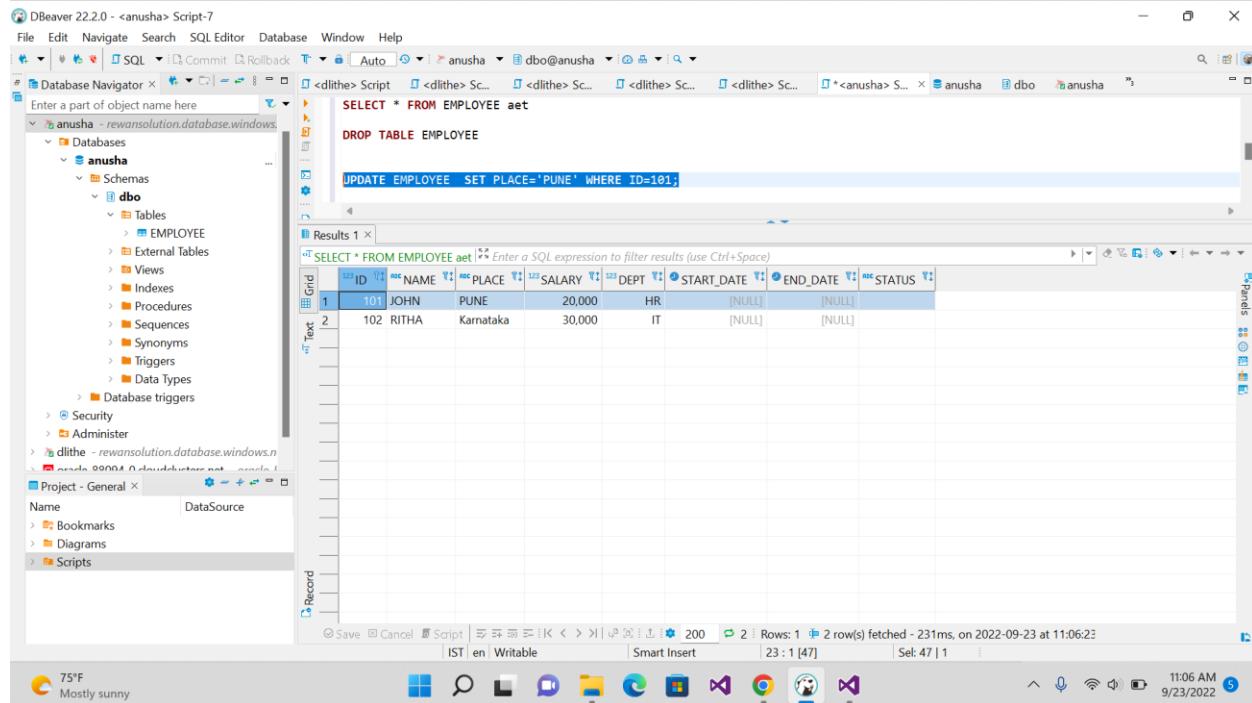
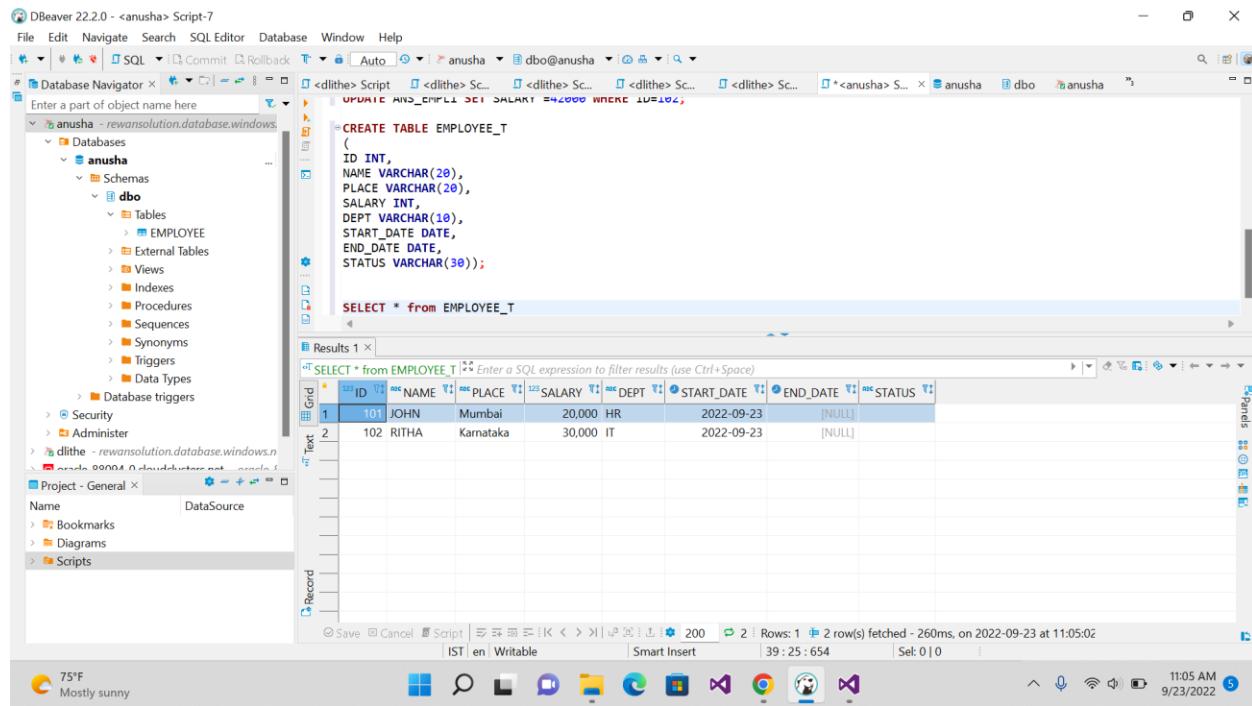
```

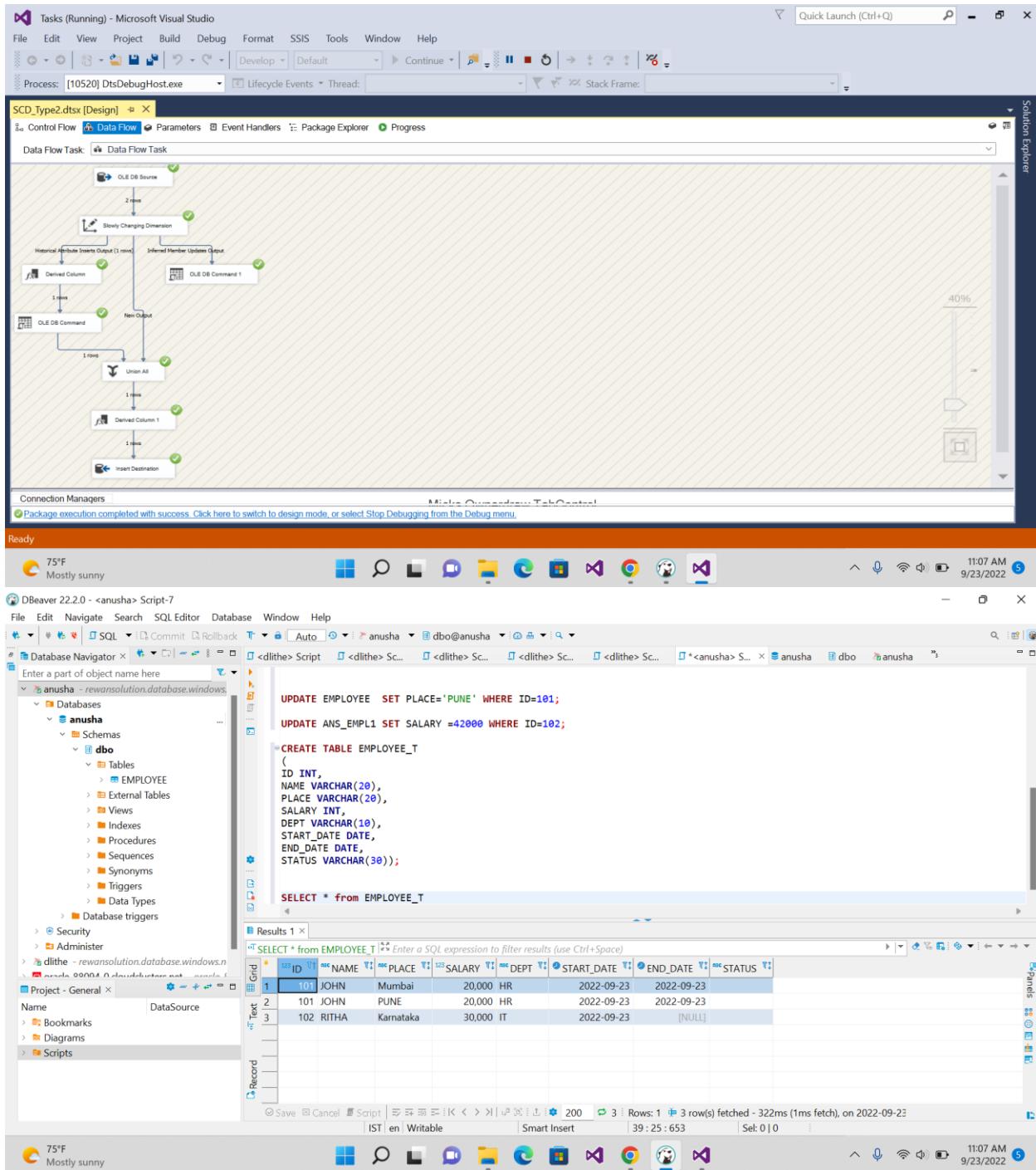
graph TD
    OLEDBSource[OLE DB Source] -- "2 rows" --> SCD[Slowly Changing Dimension]
    SCD -- "Historical Attribute Inserts Output" --> DC1[Derived Column]
    SCD -- "Inferred Member Updates Output" --> OLEDBCommand1[OLE DB Command 1]
    DC1 --> OLEDBCommand2[OLE DB Command]
    OLEDBCommand1 --> UnionAll[Union All]
    OLEDBCommand2 --> UnionAll
    UnionAll -- "New Output (2 rows)" --> DC2[Derived Column 1]
    UnionAll -- "2 rows" --> InsertDest[Insert Destination]
    DC2 --> InsertDest
  
```

Connection Managers

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

Ready





DBBeaver 22.2.0 - <anusha> Script-7

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator

Enter a part of object name here

Databases

- anusha
- Schemas
- dbo
- Tables
- Views
- Indexes
- Procedures
- Sequences
- Synonyms
- Triggers
- Data Types
- Database triggers
- Security
- Administrator

Script

```
<dlithe> Script <dlithe> Sc... <dlithe> Sc... <dlithe> Sc... <dlithe> Sc... <dlithe> Sc... <dlithe> Sc... <anusha> S... <anusha> S... <anusha> S... <anusha> S... <anusha> S... <anusha> S...
```

```
(102,'RITHA','Karnataka',30000,'IT',NULL,NULL,' ')
(101,'JOHN','Mumbai',20000,'HR',NULL,NULL,' ')
```

```
SELECT * FROM EMPLOYEE aet
```

```
DROP TABLE EMPLOYEE
```

```
UPDATE EMPLOYEE SET PLACE='PUNE' WHERE ID=101;
```

```
UPDATE EMPLOYEE SET PLACE='Mangalore' WHERE ID=102;
```

Results 1

SELECT * FROM EMPLOYEE aet

ID	NAME	PLACE	SALARY	DEPT	START_DATE	END_DATE	STATUS
101	JOHN	PUNE	20,000	HR	[NULL]	[NULL]	[NULL]
102	RITHA	Mangalore	30,000	IT	[NULL]	[NULL]	[NULL]

Save Cancel Script

IST en Writable Smart Insert

2 Rows: 1 2 row(s) fetched - 312ms, on 2022-09-23 at 11:08:33

25 : 1 [52] Sel: 52 | 1

Record

75°F Mostly sunny

Microsoft Visual Studio

Slowly Changing Dimension Wizard

Historical Attribute Options

You can record historical attributes using a single column or start and end date columns.

Use a single column to show current and expired records

Column to indicate current record: STATUS

Value when current: Current

Expiration value: Expired

Use start and end dates to identify current and expired records

Start date column: START_DATE

End date column: END_DATE

Variable to set date values: System:CreationDate

Help < Back Next > Finish >> Cancel

Show Output From: Debug

Information: 0x40043007 at Data Flow Task, SSIS.Pipeline: Pre-Execute phase is beginning.

Information: 0x4004300C at Data Flow Task, SSIS.Pipeline: Execute phase is beginning.

Information: 0x40043008 at Data Flow Task, SSIS.Pipeline: Post Execute phase is beginning.

Information: 0x40043009 at Data Flow Task, SSIS.Pipeline: "Insert Destination" wrote 1 rows.

Information: 0x40043009 at Data Flow Task, SSIS.Pipeline: Cleanup phase is beginning.

SSIS package "C:\SSIS\Tasks\Tasks\SCD_Type2.dtsx" finished: Success.

The program '[10520] DtsDebugHost.exe: DTS' has exited with code 0 (0x0).

Server Explorer

Execution Results

40%

Toolbox

Information...

Solution Explorer

DerivedReplaceString.dtsx

Execute_SQL.dtsx

ExtToFlat.dtsx

FileSystem.dtsx

FileSystem2.dtsx

Flat_To_Flat.dtsx

Flat_To_Sql.dtsx

flatTOext.dtsx

LookupC1.dtsx

LookUpStore.dtsx

Merge2ExcelTODB.dtsx

Merge2SqlToSql.dtsx

MultiCastExample.dtsx

SCD_Type2.dtsx

SequenceContainers.dtsx

SlowCD.dtsx

SQL_TO_Flat.dtsx

SQL_TO_SQL.dtsx

UnionAll1.dtsx

UnionAll2.dtsx

UnionAll3.dtsx

Package Parts

Control Flow

Miscellaneous

SCD_Type2.dtsx

Information...

Ready

75°F Mostly sunny

11:09 AM 9/23/2022

DBeaver 22.2.0 - <anusha> Script-7

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator > anusha - rewsolutions.database.windows.net

Enter a part of object name here

Databases > anusha > Schemas > dbo > Tables > EMPLOYEE > External Tables > Views > Indexes > Procedures > Sequences > Synonyms > Triggers > Data Types > Database triggers > Security > Administrator

Script > Auto_> anusha > dbo@anusha > anusha > Scripts

```
INSERT INTO EMPLOYEE VALUES  
(102,'RITHA','Karnataka',30000,'IT',NULL,NULL,' ')  
  
SELECT * FROM EMPLOYEE aet  
  
DELETE FROM EMPLOYEE_T;  
  
UPDATE EMPLOYEE SET DEPT='IT',PLACE='Chennai' WHERE ID=102;  
  
UPDATE EMPLOYEE SET PLACE='Pune' WHERE ID=102;  
  
CREATE TABLE EMPLOYEE_T  
(
```

Results 1 >

SELECT * FROM EMPLOYEE aet Enter a SQL expression to filter results (use Ctrl+Space)

ID	NAME	PLACE	SALARY	DEPT	START_DATE	END_DATE	STATUS
1	101	JOHN	Bangalore	20,000	Sales	[NULL]	[NULL]
2	102	RITHA	Pune	30,000	IT	[NULL]	[NULL]

Save Cancel Script IST en Writable Smart Insert 200 2 Rows: 1 2 row(s) fetched - 306ms, on 2022-09-23 at 11:39:10 26 : 48 [47] Sel: 47 | 1

75°F Mostly sunny 11:39 AM 9/23/2022

DBeaver 22.2.0 - <anusha> Script-7

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator > anusha - rewsolutions.database.windows.net

Enter a part of object name here

Databases > anusha > Schemas > dbo > Tables > EMPLOYEE > External Tables > Views > Indexes > Procedures > Sequences > Synonyms > Triggers > Data Types > Database triggers > Security > Administrator

Script > Auto_> anusha > dbo@anusha > anusha > Scripts

```
(101,'JOHN','Mumbai',20000,'HR',NULL,NULL,' ')  
  
SELECT * FROM EMPLOYEE aet  
  
DELETE FROM EMPLOYEE_T;  
  
UPDATE EMPLOYEE SET DEPT='IT',PLACE='Chennai' WHERE ID=102;
```

Results 1 >

SELECT * FROM EMPLOYEE aet Enter a SQL expression to filter results (use Ctrl+Space)

ID	NAME	PLACE	SALARY	DEPT	START_DATE	END_DATE	STATUS
1	101	JOHN	Bangalore	20,000	Sales	[NULL]	[NULL]
2	102	RITHA	Chennai	30,000	IT	[NULL]	[NULL]

Save Cancel Script IST en Writable Smart Insert 200 2 Rows: 1 2 row(s) fetched - 374ms (4ms fetch), on 2022-09-23 at 11:41:00 24 : 1 [60] Sel: 60 | 1

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Microsoft Visual Studio

Tasks (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [13432] DtsDebugHost.exe Lifecycle Events Thread: Stack Frame:

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task: Data Flow Task

```

graph TD
    OLEDBSource[OLE DB Source] --> SCD[Slowly Changing Dimension]
    SCD --> DerivedColumn1[Derived Column]
    DerivedColumn1 --> OLEDBCommand[OLE DB Command]
    OLEDBCommand --> UnionAll[Union All]
    UnionAll --> DerivedColumn2[Derived Column 1]
    DerivedColumn2 --> InsertDestination[Insert Destination]
    
```

Connection Managers

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

Ready

DBBeaver 22.2.0 - <anusha> Script-7

File Edit Navigate Search SQL Editor Database Window Help

Auto SQL anusha dbo@anusha

Database Navigator

Enter a part of object name here

Databases

- anusha - rewsolutions.database.windows.net
- anusha
- Schemas
- dbo
- Tables
- EMPLOYEE
- External Tables
- Views
- Indexes
- Procedures
- Sequences
- Synonyms
- Triggers
- Data Types
- Database triggers
- Security
- Administrator

dilith - rewsolutions.database.windows.net

Project - General

Name DataSource

Bookmarks

Diagrams

Scripts

75°F Mostly sunny

SELECT * from EMPLOYEE_T

Results 1

ID	NAME	PLACE	SALARY	DEPT	START_DATE	END_DATE	STATUS
1	JOHN	Bangalore	20,000	Sales	[NULL]	[NULL]	Current
2	RITHA	Pune	30,000	IT	[NULL]	[NULL]	Current

1 Rows: 1 2 row(s) fetched - 425ms, on 2022-09-23 at 11:41:40 IST | en | Writable | Smart Insert | 40:25:671 | Set 0 | 0

11:42 AM 9/23/2022

