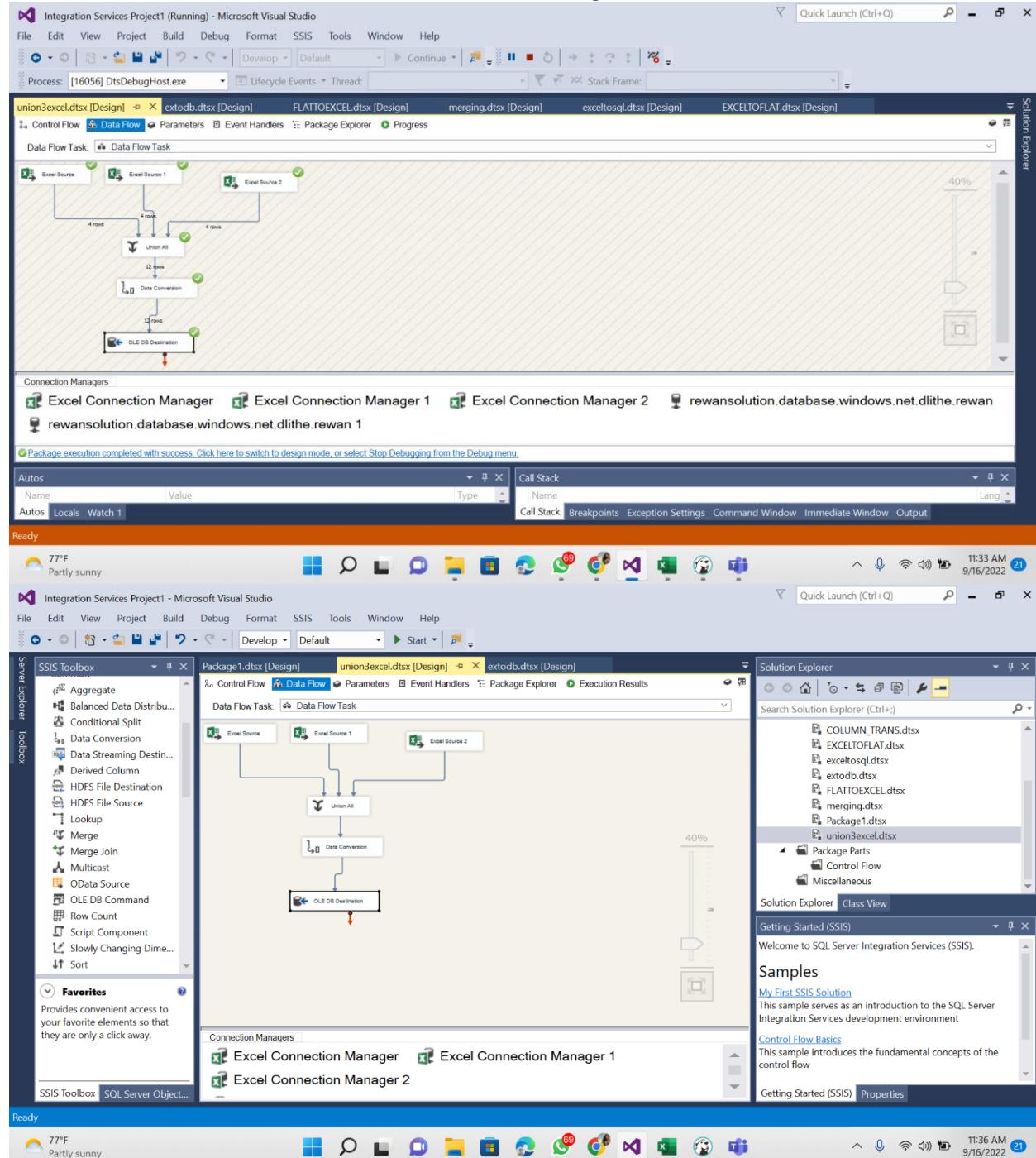


SSIS

Union All Transformation:-Three Assignment



DBeaver 22.2.0 - <dlithe> Script.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <dlithe> S... dlithe dlithe jkdepartmentnew jk_new <oracle-8809... target_emp_d... target_prod...>

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

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

```
SELECT * FROM dlithe.dbo.merge5

drop TABLE merge5
----joining
CREATE TABLE dlithe.dbo.employee123
(
id int,
fname varchar(255),
lname varchar(255),
place varchar(255)
)
```

Results 1 x

	id	fname	lname	place
1	spoorthy	jk	bhadrapuram	bhdarvathi
2	sushma	j	bdvt	
3	kumari	d	smg	
4	jaykumar	n	bnlg	
5	spoo	ts	bhadrapuram	bhdarvathi
6	shru	m	bdvt	
7	swa	s	smg	
8	any	hr	bnlg	
9	soumya	bv	bhadrapuram	bhdarvathi

Save Cancel Script IST en Writable Smart Insert 223 : 37 [36] Rows: 0 48 row(s) fetched - 198ms, on 2022-09-16 at 11:38:00 Sel: 36 | 1

77°F Partly sunny 11:39 AM 9/16/2022

Integration Services Project1 (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [15972] DtsDebugHost.exe Lifecycle Events Thread Stack Frame

union123.dtsx [Design] union1excelflat1db.dtsx [Design] union3excel.dtsx [Design] extedb.dtsx [Design] FLATTOEXCEL.dtsx [Design] merging.dtsx [Design]

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task

```

graph TD
    S1[OLE DB Source 1] --> U[Union All]
    S2[OLE DB Source 2] --> U
    S3[OLE DB Source 3] --> U
    U --> D[Flat File Destination]
    
```

Connection Managers

rewsolution.database.windows.net.dlithe.rewan Flat File Connection Manager

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

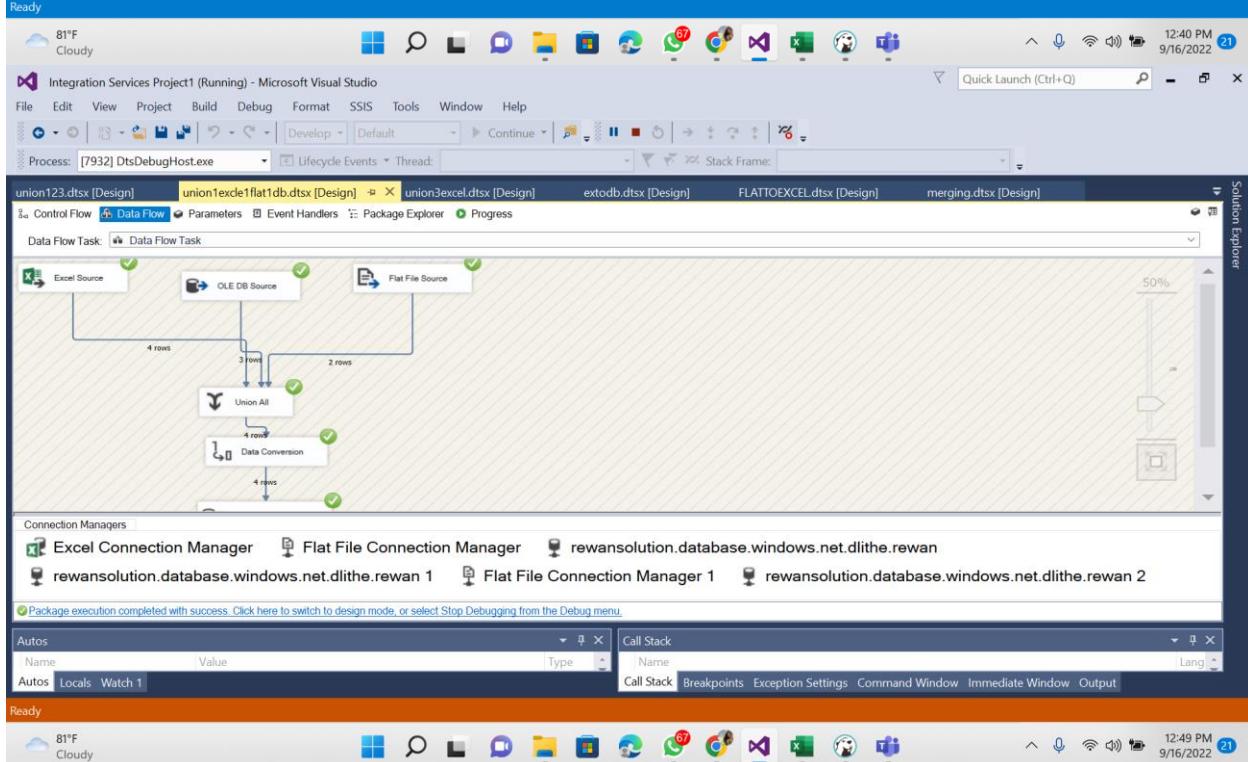
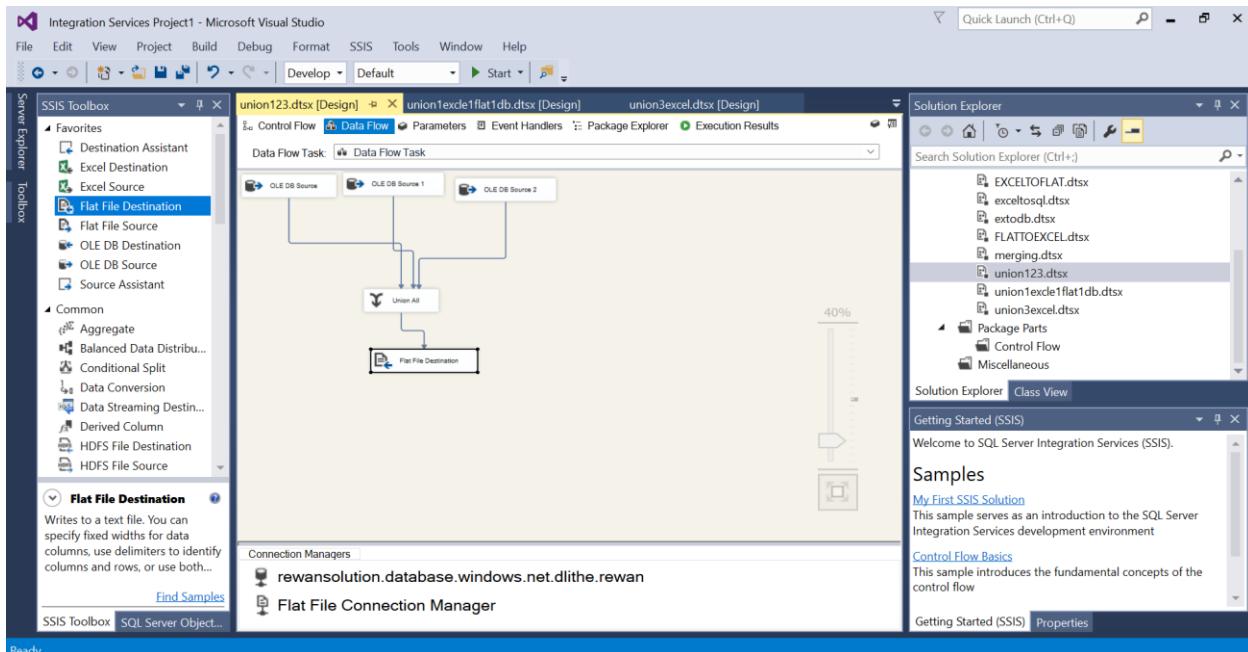
Autos Locals Watch 1

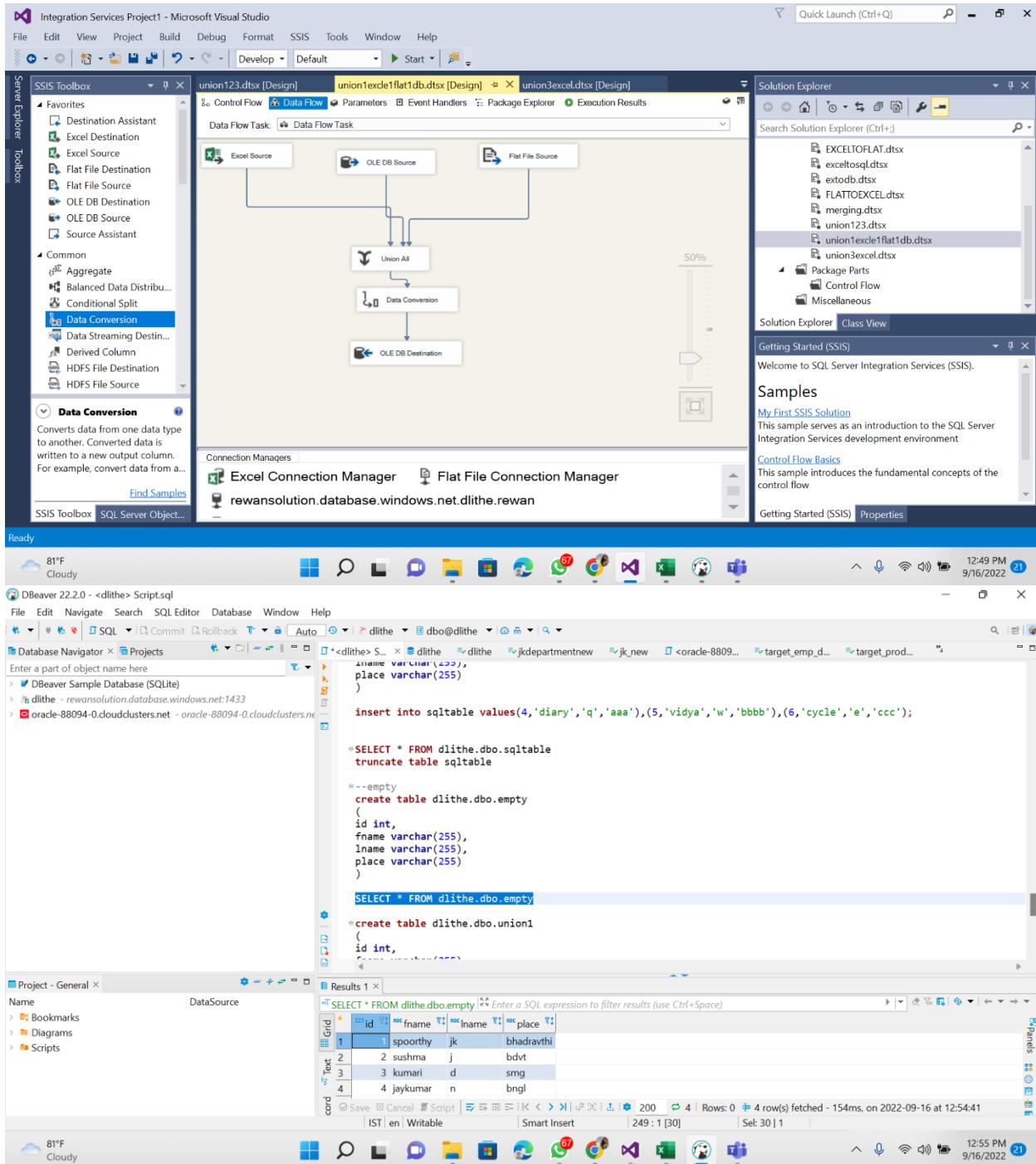
Call Stack

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

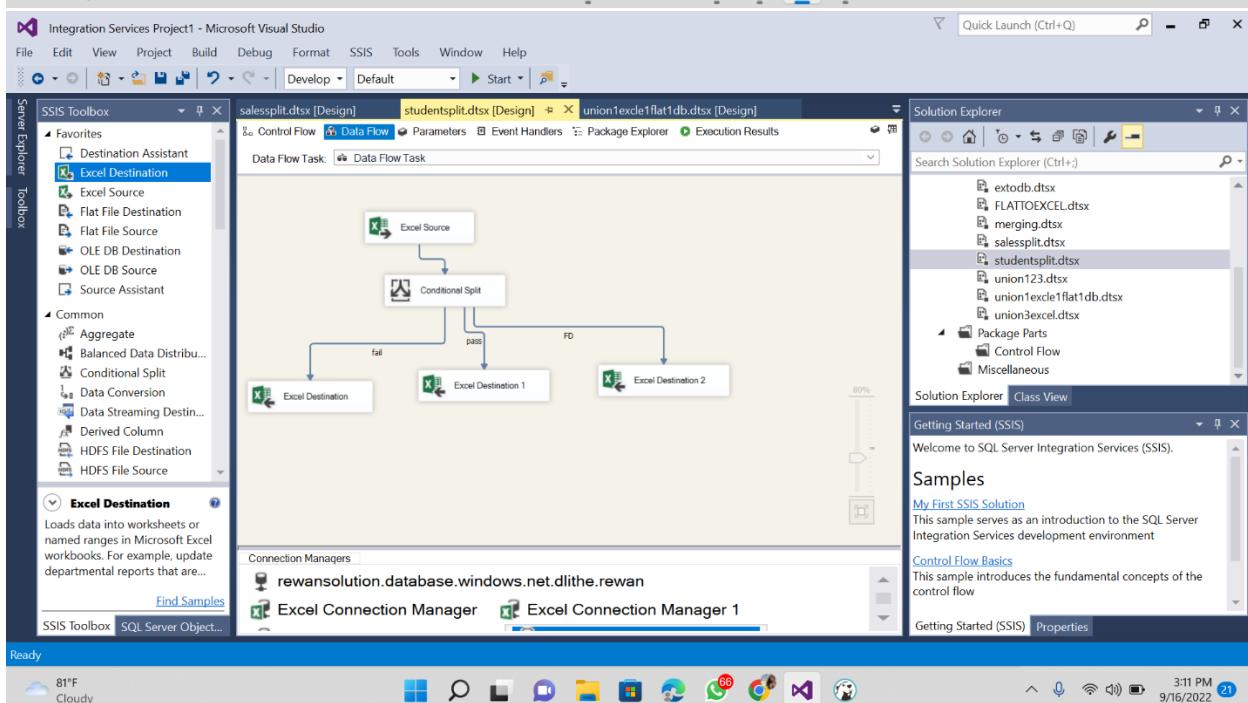
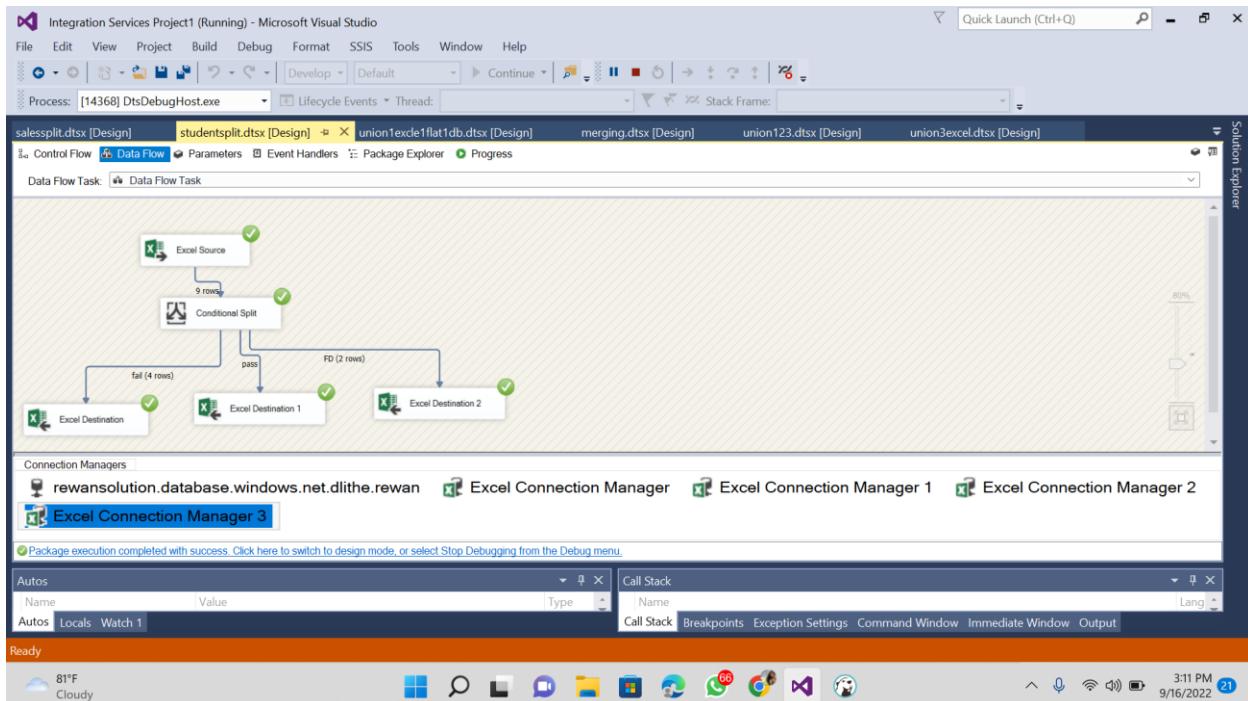
Ready

81°F Cloudy 12:40 PM 9/16/2022





Conditional Split Transformation--Two Assignments



File Explorer window showing the file structure:

```

TARGET
  +-- New
  +-- Desktop
  +-- Downloads
  +-- Documents
  +-- Pictures
  +-- Integration Sen
  +-- Screenshots
  +-- SOURCE
  +-- TARGET
    +-- fail - Compatibility Mode.xlsx

```

Excel window showing data in Sheet1:

	A	B	C
1	id	name	marks
2	1	aaa	20
3	2	bbb	30
4	4	ddd	39
5	9	iii	20
6			
7			
8			
9			
10			

File Explorer window showing the file structure:

```

TARGET
  +-- New
  +-- Desktop
  +-- Downloads
  +-- Documents
  +-- Pictures
  +-- Integration Sen
  +-- Screenshots
  +-- SOURCE
  +-- TARGET
    +-- fail - Compatibility Mode.xlsx

```

Excel window showing data in Sheet1:

	A	B	C
1	id	name	marks
2	1	aaa	20
3	2	bbb	30
4	4	ddd	39
5	9	iii	20
6			
7			
8			
9			
10			

File Explorer window showing the file structure:

```

TARGET
  +-- New
  +-- Desktop
  +-- Downloads
  +-- Documents
  +-- Pictures
  +-- Integration Sen
  +-- Screenshots
  +-- SOURCE
  +-- TARGET
    +-- fail - Compatibility Mode.xlsx

```

Excel window showing data in Sheet1:

	A	B	C
1	id	name	marks
2	7	ggg	70
3	8	hhh	90
4			
5			
6			
7			
8			
9			
10			

File Explorer window showing the file structure:

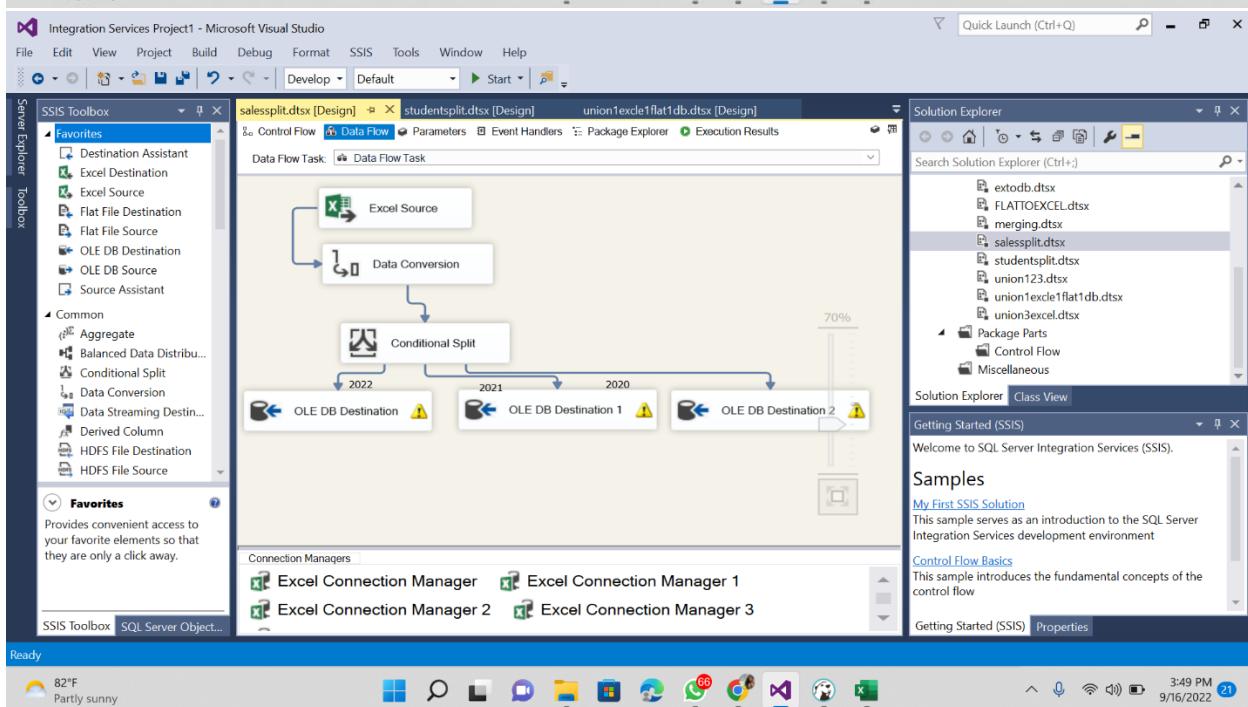
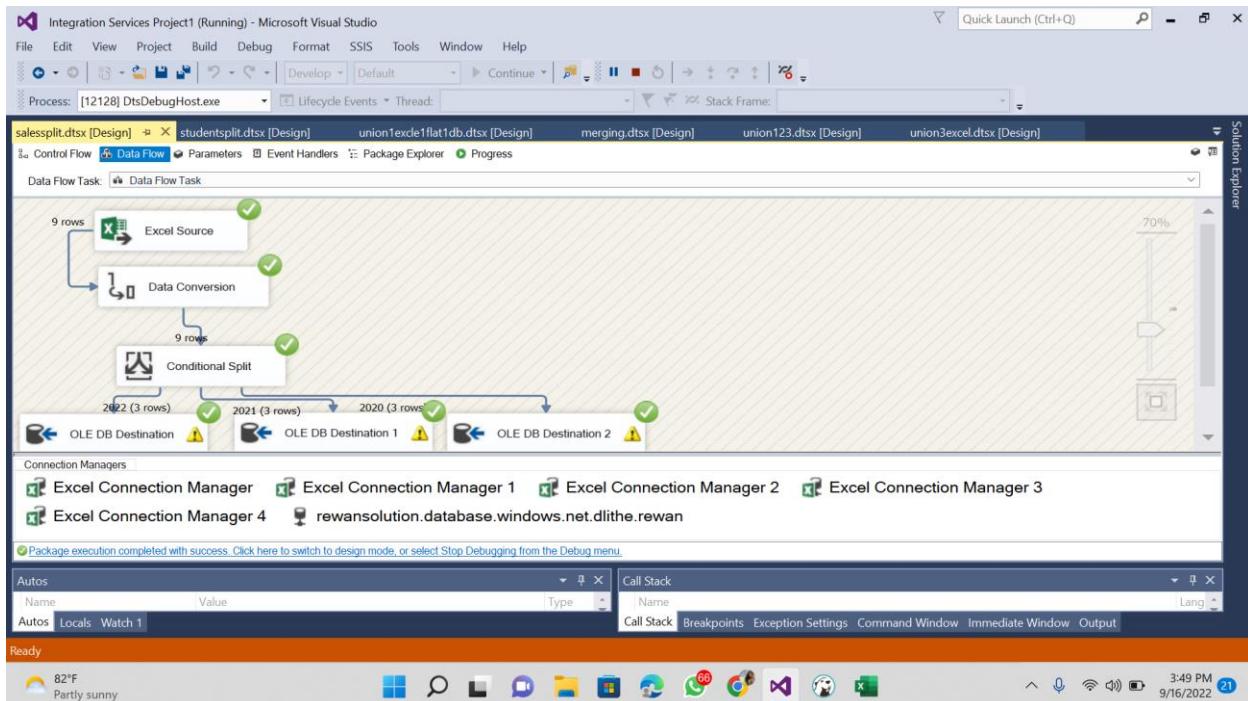
```

TARGET
  +-- New
  +-- Desktop
  +-- Downloads
  +-- Documents
  +-- Pictures
  +-- Integration Sen
  +-- Screenshots
  +-- SOURCE
  +-- TARGET
    +-- fail - Compatibility Mode.xlsx

```

Excel window showing data in Sheet1:

	A	B	C
1	id	name	marks
2	7	ggg	70
3	8	hhh	90
4			
5			
6			
7			
8			
9			
10			



The screenshot shows the DBBeaver 22.2.0 interface. In the top-left corner, there's a message: "DBBeaver 22.2.0 - <dlithe> Script.sql". The menu bar includes File, Edit, Navigate, Search, SQL Editor, Database, Window, and Help. The toolbar has icons for New, Open, Save, Commit, Rollback, Auto, and various database connection dropdowns. The Database Navigator and Projects tabs are visible. A search bar at the top says "Enter a part of object name here". Below it, a tree view shows a schema structure with tables like "s2020", "s2021", and "s2022". The main area contains a SQL script:

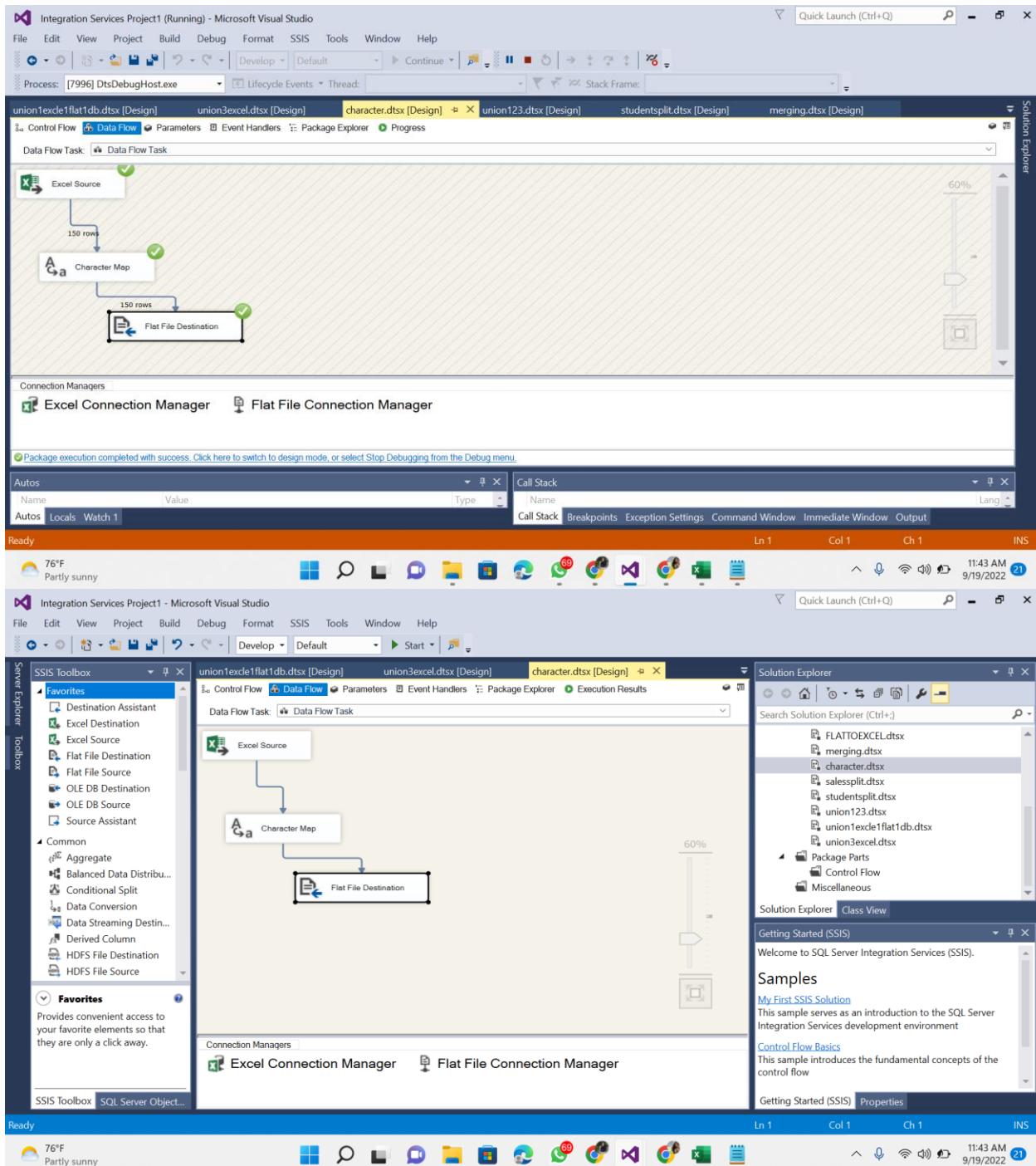
```
id int ,
product varchar(225),
price int,
year int
)
create table dlithe.dbo.s2020
(
id int ,
product varchar(225),
price int,
year int
)
select table dlithe.dbo.s2020
SELECT * FROM dlithe.dbo.s2021
SELECT * FROM dlithe.dbo.s2020
SELECT * FROM dlithe.dbo.s2022
```

Below the script, a results grid displays the data from the "s2021" table:

	id	product	price	year
1	2	pant	1,008	2,022
2	4	laptop	1,238	2,022
3	5	mbl	1,234	2,022

The status bar at the bottom shows "3 row(s) fetched". The system tray indicates the weather is 82°F and partly sunny, and the date and time are 9/16/2022 at 3:49 PM.

CharacterMap Transformation



super_shop - Notepad

File Edit View

se,261.959999999999999,2,0,41.9136000000000002,SECOND CLASS,CLAIRE GUTE,CONSUMER
King Chairs, Rounded Back,731.94000000000005,3,0,219.581999999999999,SECOND CLASS,CLAIRE GUTE,CONSUMER
Label for Typewriters by Universal,14.619999999999999,2,0,6.871400000000004,SECOND CLASS,DARRIN VAN HUFF,CORPORATE
Slim Rectangular Table,957.5774999999999995,0,5,40500000000000001,-383.03100000000001,STANDARD CLASS,SEAN O'DONNELL,CONSUMER
11 Cart System,22.367999999999999,2,0,20000000000000001,2.5164,STANDARD CLASS,SEAN O'DONNELL,CONSUMER
and Plastic Desk Accessories, Cherry Wood,48.859999999999999,7,0,14.1694,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
00002,4,0,1.9656,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
hone,907.15200000000004,6,0,2000000000000001,90.715199999999996,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
rs with Locking Rings by Samsill,18.504000000000001,3,0,2000000000000001,5.782499999999998,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
L 6 Outlet Surge,114.90000000000001,5,0,34.469999999999999,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
ference Tables,1706.184,9,0,2000000000000001,38.39200000000004,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
one - Charcoal black,911.42399999999998,4,0,2000000000000001,68.35680000000007,STANDARD CLASS,BROSINA HOFFMAN,CONSUMER
2000000000000001,5.4432,STANDARD CLASS,ANDREW ALLEN,CONSUMER
omb Binding Machine,487.976,3,0,2000000000000001,132.592199999999999,STANDARD CLASS,IRENE MADDOX,CONSUMER
ent Filter for HEPA Air Cleaner, Very Large Room, HEPA Filter,68.81000000000002,5,0,8000000000000004,-123.858,STANDARD CLASS,HAROLD PAWLAN,HOME OFFICE
cycled Plastic Frosted Binders,2.544,3,0.8000000000000004,3.815999999999998,STANDARD CLASS,HAROLD PAWLAN,HOME OFFICE
rtical 5-Shelf: 72" H x 36" W x 18 1/2",665.88,6,0,13.31760000000001,STANDARD CLASS,PETE KRIZ,CONSUMER
.55,2,0,9900000000000002,SECOND CLASS,ALEJANDRO GROVE,CONSUMER
00000005,2,0,2.48240000000002,SECOND CLASS,ZUSCHUSS DONATELLI,CONSUMER
e,213.479999999999999,3,0,2000000000000001,16.018999999999999,SECOND CLASS,ZUSCHUSS DONATELLI,CONSUMER
ging View Binder, White, 1",22.719999999999999,4,0,2000000000000001,7.384000000000003,SECOND CLASS,ZUSCHUSS DONATELLI,CONSUMER
,7,0,5.059999999999997,STANDARD CLASS,KEN BLACK,CORPORATE
Strip, 4' Cord Length,60.3400000000000003,7,0,15.6884,STANDARD CLASS,KEN BLACK,CORPORATE
hair, Gray,71.372,2,0.299999999999999,-1.0196000000000001,SECOND CLASS,SANDRA FLANAGAN,CONSUMER
ble,1044.630000000001,3,0,240.26490000000001,STANDARD CLASS,EMILY HOFFMANN,CONSUMER
e Binders,11.648,2,0.5220000000000004,SECOND CLASS,ERIC HOFFMANN,CONSUMER
Drive USB 2.0 Flash Drive,90.569999999999993,3,0,11.77410000000001,SECOND CLASS,ERIC HOFFMANN,CONSUMER
yal Lawyers Bookcase, Royale Cherry Finish,3083.4299999999998,7,0,5,-1665.0522000000001,STANDARD CLASS,TRACY BLUMSTEIN,CONSUMER
Flexi-View Covers for Binding Systems,9.618000000000003,2,0.6999999999999996,-7.053200000000004,STANDARD CLASS,TRACY BLUMSTEIN,CONSUMER
3/4" Diameter Brushed Chrome Round Wall Clock,124.2,3,0,2000000000000001,15.525,STANDARD CLASS,TRACY BLUMSTEIN,CONSUMER
ie Envelopes,3.263999999999998,2,0,2000000000000001,1.181599999999999,STANDARD CLASS,TRACY BLUMSTEIN,CONSUMER
lectric Pencil Sharpeners, Putty/Woodgrain,86.3040000000000002,6,0,2000000000000001,9.708199999999992,STANDARD CLASS,TRACY BLUMSTEIN,CONSUMER

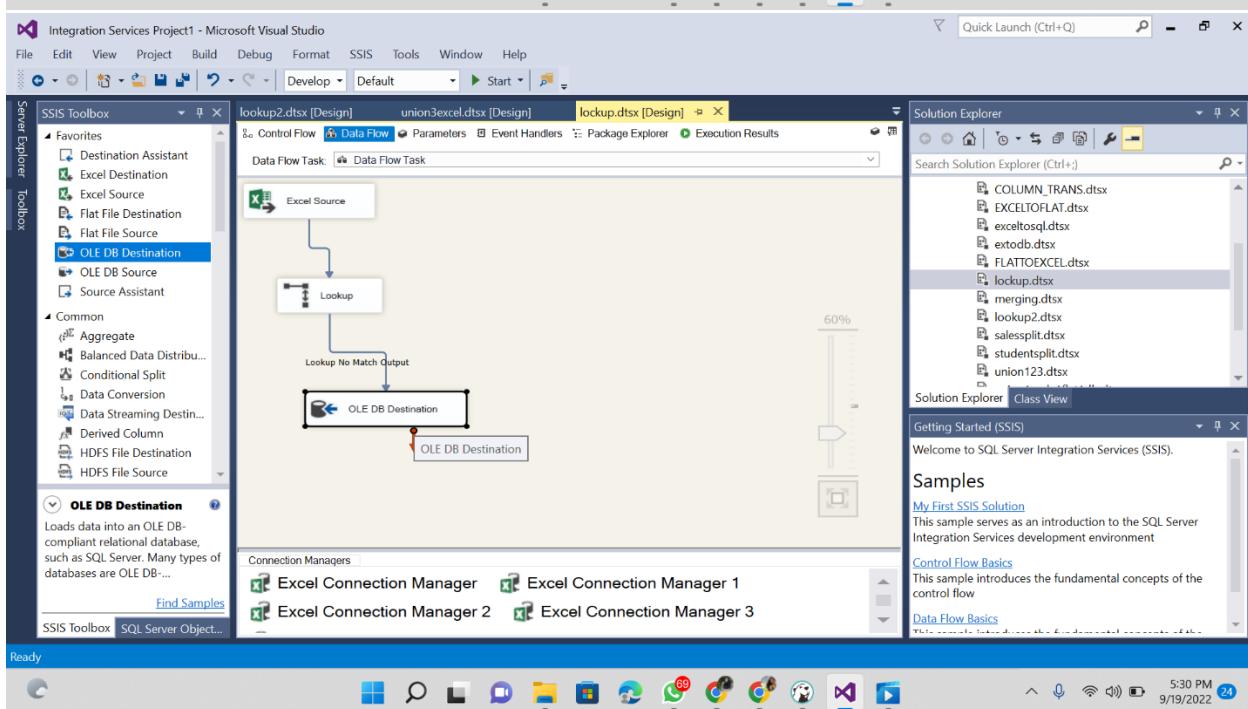
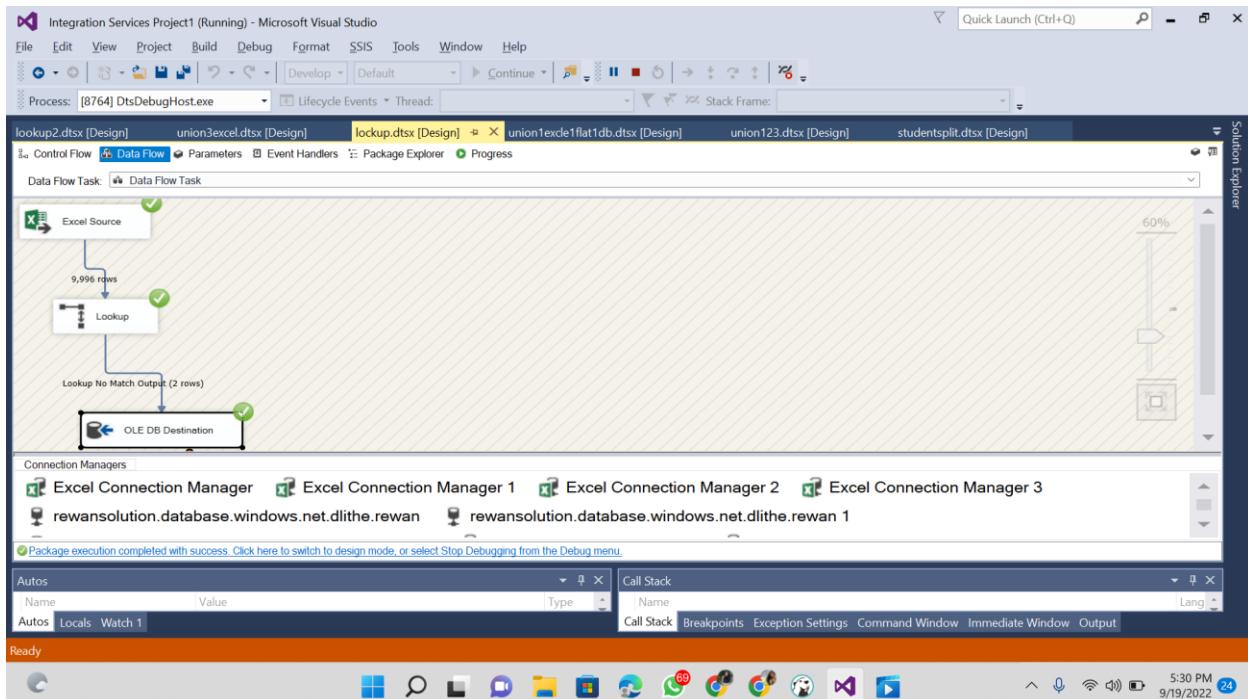
Ln 16, Col 308

100% Windows (CRLF) ANSI

76°F Partly sunny

11:44 AM 9/19/2022

Lookup Transformation:

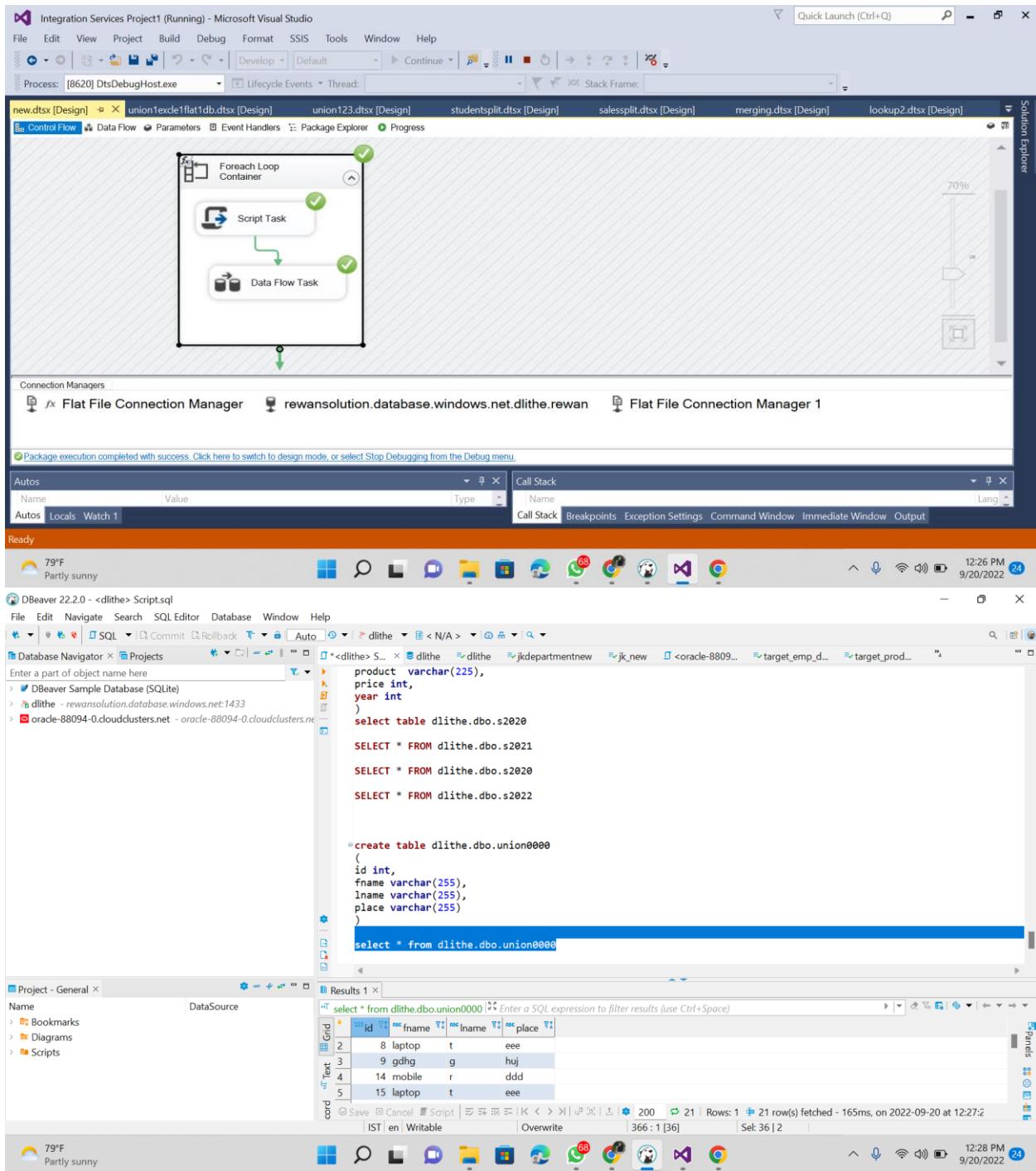


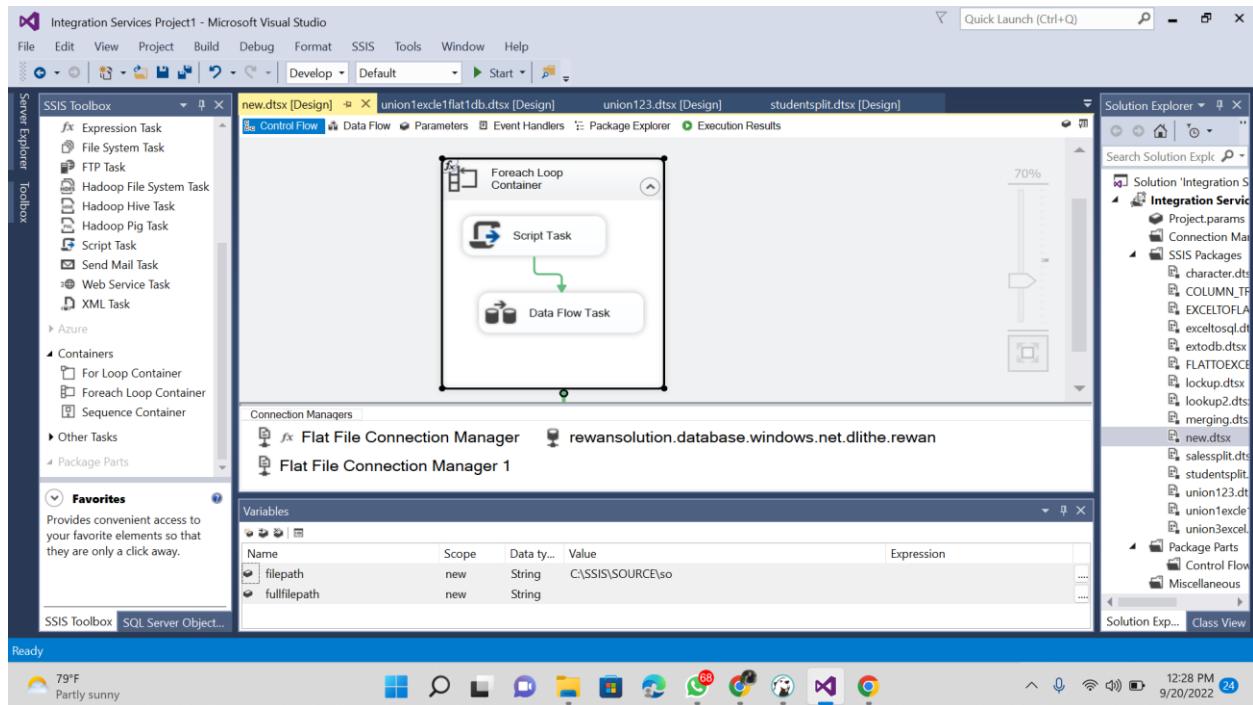
The screenshot shows the DBBeaver 22.2.0 interface. At the top, the menu bar includes File, Edit, Navigate, Search, SQL Editor, Database, Window, and Help. Below the menu is a toolbar with various icons for database management. The main workspace has a "Database Navigator" on the left showing connections to "DBeaver Sample Database (SQLite)", "dlithe - revansolution.database.windows.net:1433", and "oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net". A central pane displays a table structure for "abcde" with columns: Postal_Code (int), Region (varchar(255)), Product_ID (varchar(255)), Category (varchar(255)), Sub_Category (varchar(255)), Product_Name (varchar(255)), Sales (decimal), Quantity (int), and Discount (decimal). Below this, a "Results 1" tab shows the output of the query "select * from abcde". The results grid contains 9996 rows, with the first few rows listed as follows:

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Country	
2131	9.831	CA-2014-113257	2014-12-16 00:00:00.000	2014-12-18 00:00:00.000	Second Class	SC-20305	Sean Christensen	Co
2132	9.832	CA-2014-113257	2014-12-16 00:00:00.000	2014-12-18 00:00:00.000	Second Class	SC-20305	Sean Christensen	Co
2133	9.833	CA-2014-133963	2014-05-18 00:00:00.000	2014-05-22 00:00:00.000	Second Class	GA-14515	George Ashbrook	Co
2134	9.834	CA-2017-130302	2017-09-14 00:00:00.000	2017-09-19 00:00:00.000	Standard Class	CY-12745	Craig Yedwab	Co
2135	9.835	CA-2016-126627	2016-10-10 00:00:00.000	2016-10-12 00:00:00.000	First Class	WB-21850	William Brown	Co
2136	9.836	CA-2016-126627	2016-10-10 00:00:00.000	2016-10-12 00:00:00.000	First Class	WB-21850	William Brown	Co
2137	9.837	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co
2138	9.838	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co
2139	9.839	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co
2140	9.840	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co
2141	9.841	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co
2142	9.842	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co
2143	9.843	US-2016-125402	2016-09-25 00:00:00.000	2016-10-01 00:00:00.000	Standard Class	DL-12865	Dan Lawera	Co

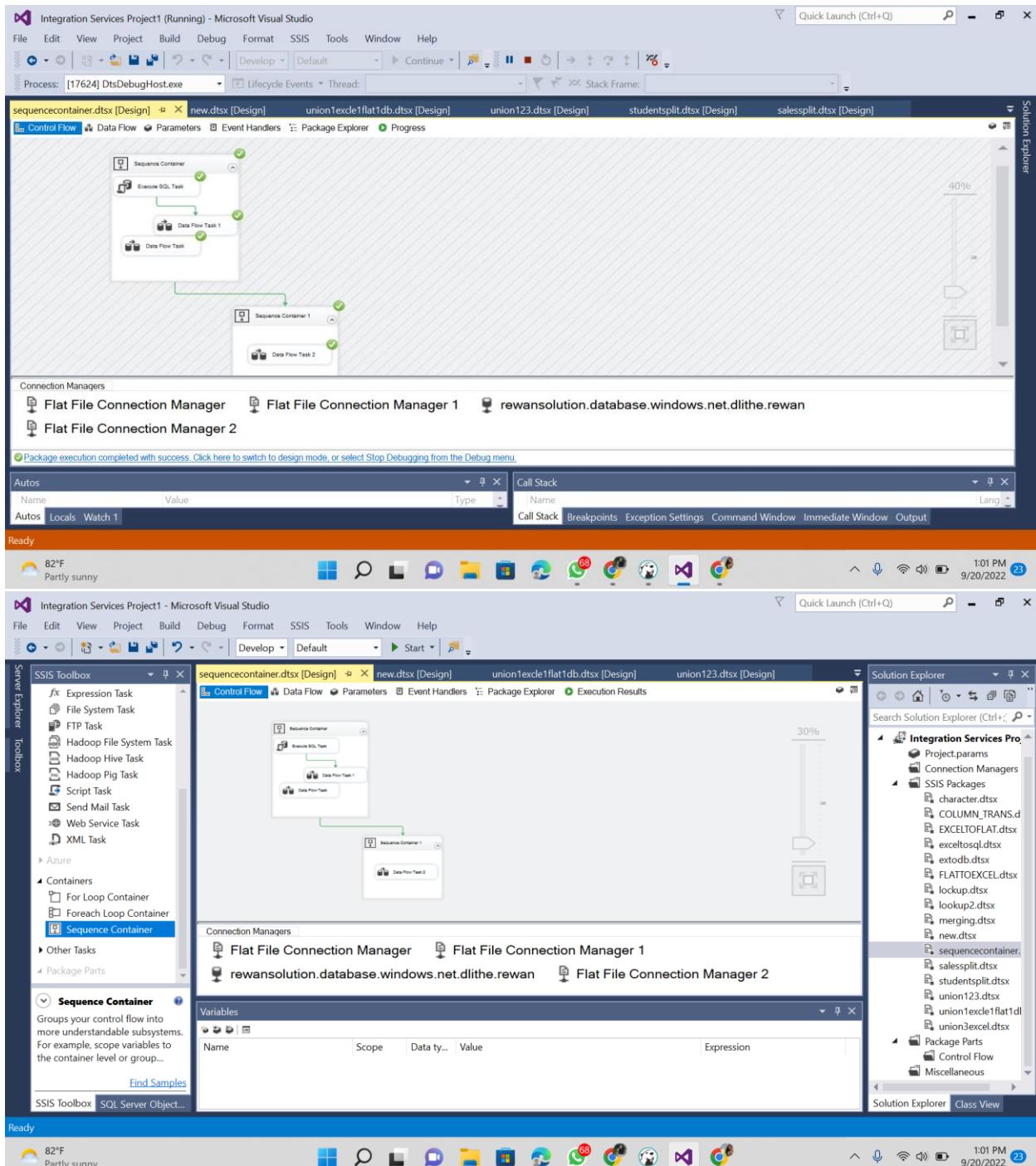
At the bottom of the interface, there is a toolbar with various icons for file operations, and a status bar showing the date and time (5:31 PM, 9/19/2022).

Read Multiple Flat File and Load into SQL DB.

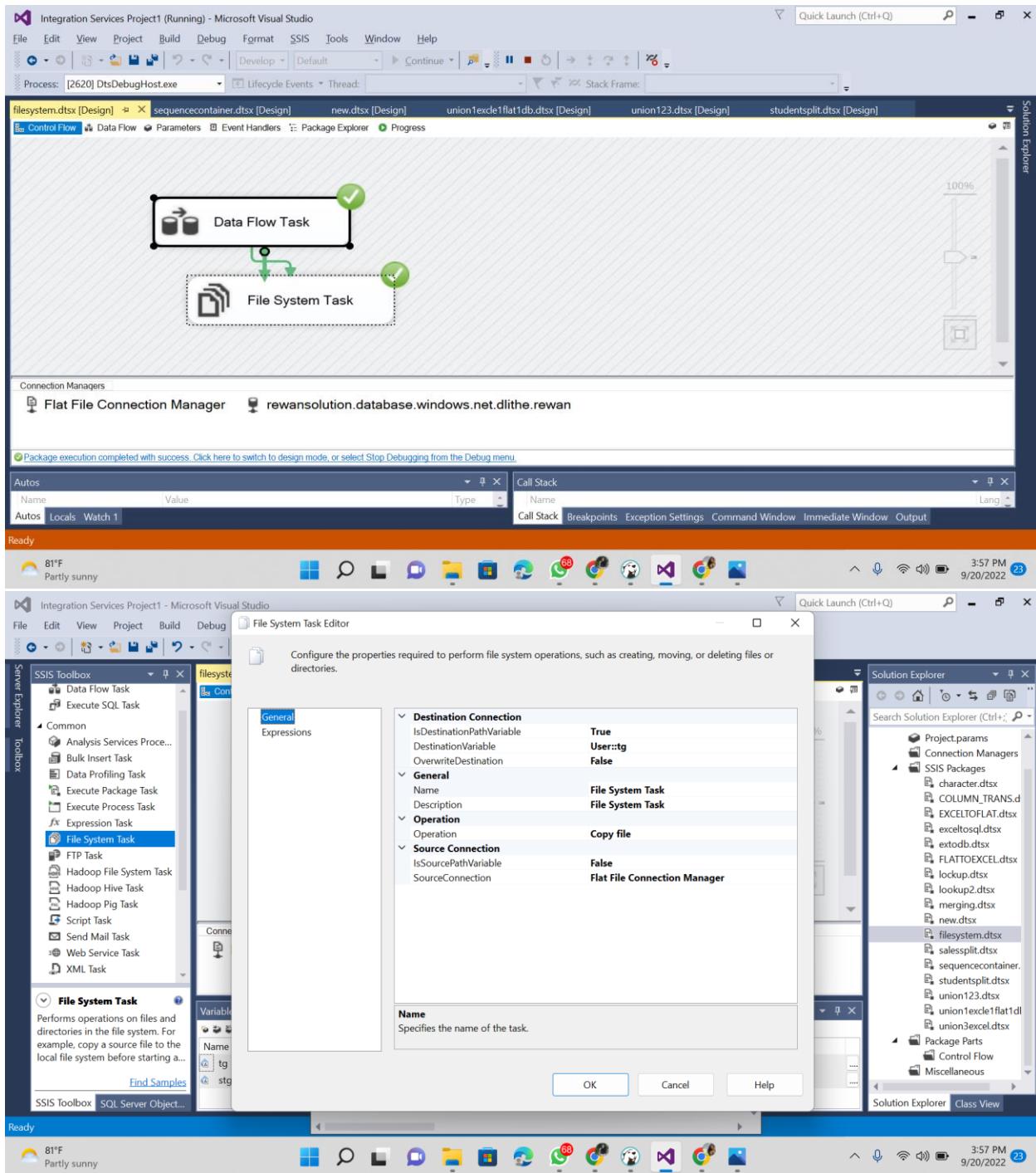


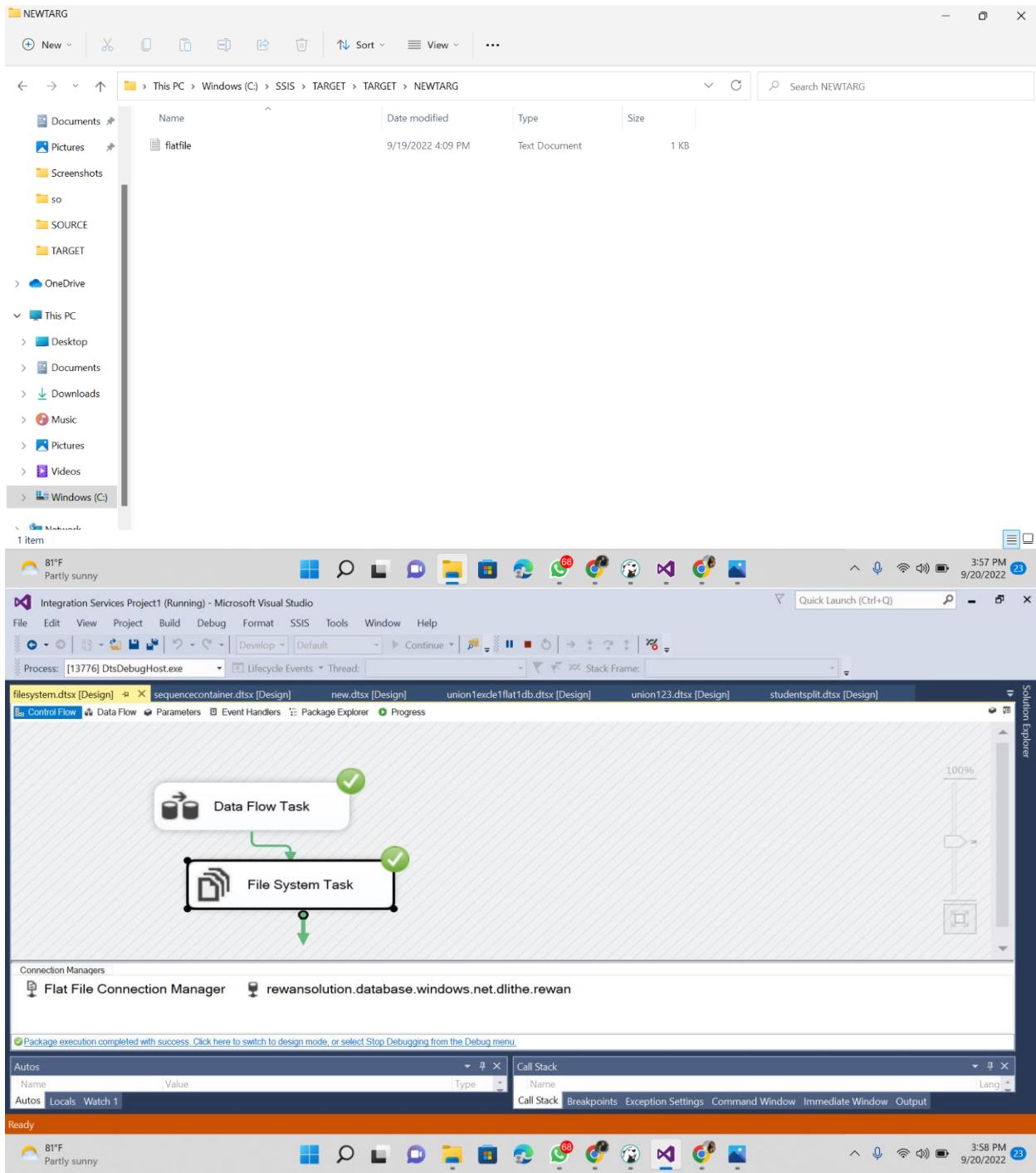


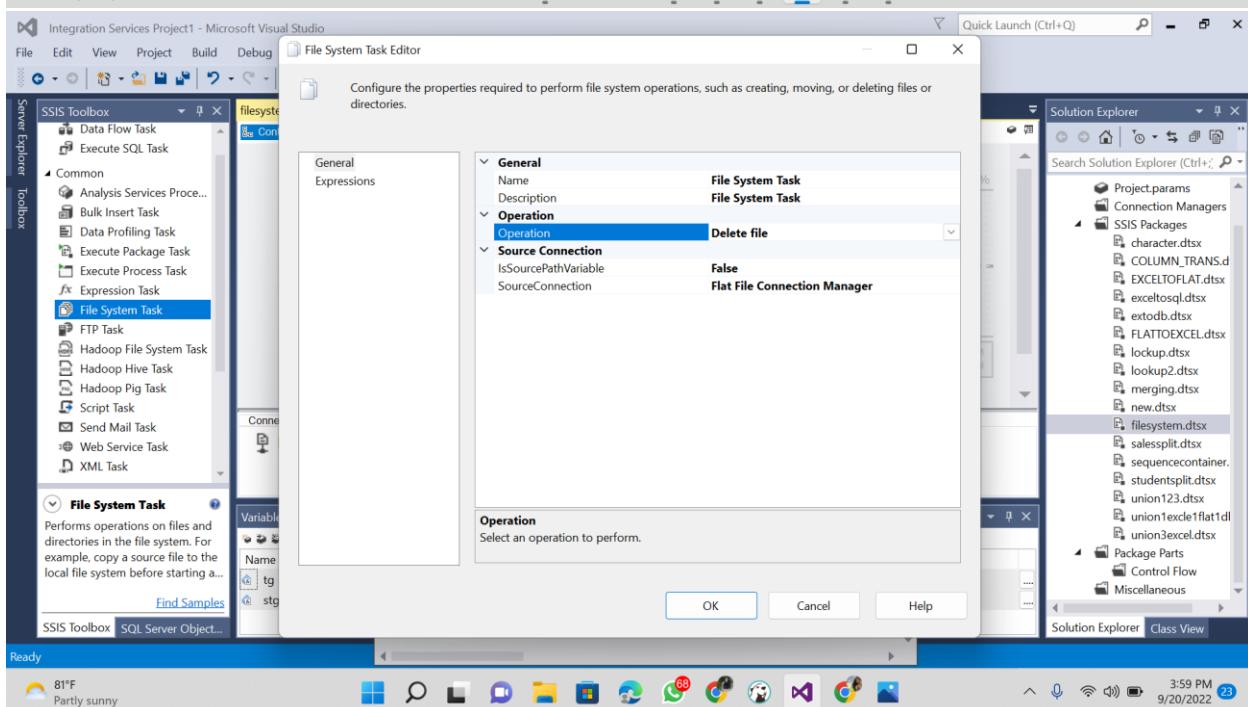
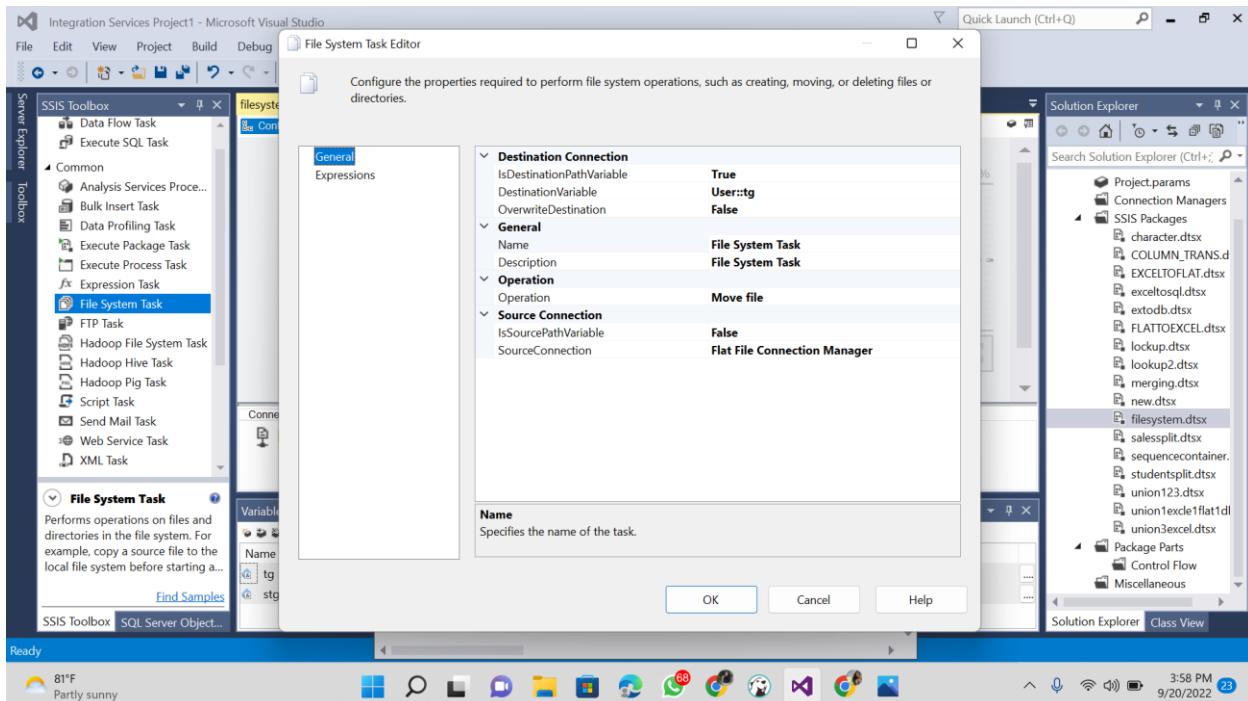
SequenceContainer-MultipleTasks



FileSystem Task(Eight Task create)







Rank/Dense_Rank/Rownumber()

DBeaver 22.2.0 - <dlithe> Script.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - revansolution.database.windows.net:1433

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

```
select * from dlithe.dbo.bjk_department

--rank
select
    rank () over (order by department_id) as rankno,department_id,department_name from bjk_department;

--dense rank
select
    DENSE_RANK () over (order by department_id) as dense,department_id,department_name from bjk_department;

--row number
select
    ROW_NUMBER () over (order by department_id) as dense,department_id,department_name from bjk_department;
```

Results 1

	dense	department_id	department_name
1	1	1	testing
2	2	1	testing
3	3	1	testing
4	4	1	testing
5	5	2	developer
6	6	2	developer
7	7	2	developer

Save Cancel Script Smart Insert IST en Writable 200 11 Rows: 1 11 row(s) fetched - 282ms (1ms fetch), on 2022-09-2 399 : 2 [120] Sel: 120 | 4 84°F Partly sunny 3:34 PM 9/22/2022

DBeaver 22.2.0 - <dlithe> Script.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - revansolution.database.windows.net:1433

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

```
select * from dlithe.dbo.bjk_department

--rank
select
    rank () over (order by department_id) as rankno,department_id,department_name from bjk_department;

--dense rank
select
    DENSE_RANK () over (order by department_id) as dense,department_id,department_name from bjk_department;

--row number
select
    ROW_NUMBER () over (order by department_id) as dense,department_id,department_name from bjk_department;
```

Results 1

	dense	department_id	department_name
1	1	1	testing
2	1	1	testing
3	1	1	testing
4	1	1	testing
5	2	2	developer
6	2	2	developer
7	2	2	developer

Save Cancel Script Smart Insert IST en Writable 200 11 Rows: 1 11 row(s) fetched - 282ms, on 2022-09-22 at 15:34:1 399 : 2 [120] Sel: 120 | 4 84°F Partly sunny 3:34 PM 9/22/2022

The screenshot shows the DBBeaver 22.2.0 interface. In the top-left corner, it says "DBBeaver 22.2.0 - <dlithe> Script.sql". The menu bar includes File, Edit, Navigate, Search, SQL Editor, Database, Window, Help. The toolbar has icons for New, Open, Save, Commit, Rollback, Auto, and various search and navigation tools. The Database Navigator shows a list of projects and databases. The main area has a SQL Editor tab with the following code:

```
select * from dlithe.dbo.bjk_department

--rank
select
    rank () over (order by department_id) as rankno,department_id,department_name from bjk_department;

--dense rank
select
    DENSE_RANK () over (order by department_id) as dense,department_id,department_name from bjk_department;

--row number
select
    ROW_NUMBER () over (order by department_id) as dense,department_id,department_name from bjk_department;
```

Below the SQL editor is a Results grid titled "Results 1". It displays the following data:

	rankno	department_id	department_name
1	1	1	testing
2	1	1	testing
3	1	1	testing
4	1	1	testing
5	5	2	developer
6	5	2	developer
7	5	2	developer

The bottom status bar shows "Rows: 1 11 row(s) fetched - 268ms, on 2022-09-22 at 15:34:4". The system tray indicates the weather is 84°F and Partly sunny.

How to perform Slowly Changing Dimension?

DBeaver 22.2.0 - <dlithe> Script.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

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

```

    department_id int,
    department_name varchar(200),
);

insert into abjk_department values ('01','testing');
insert into abjk_department values ('02','developer');
insert into abjk_department values ('03','devops');

select * from dlithe.dbo.abjk_department
select * from dlithe.dbo.abjk_department_tgt

---target

create table dlithe.dbo.abjk_department_tgt
(
    department_id int,
    department_name varchar(200),
);

```

Results 1

	department_id	department_name
1	1	testing
2	2	developer
3	3	devops

Project - General

Name DataSource

- Bookmarks
- Diagrams
- Scripts

82°F Partly sunny

Integration Services Project1 (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [2028] DtsDebugHost.exe Lifecycle Events Thread: Stack Frame:

studentsplit.dtsx [Design] union123.dtsx [Design] union1excl1flat1db.dtsx [Design] slowlychanging.dtsx [Design] sequencecontainer.dtsx [Design] salessplit.dtsx [Design]

Data Flow Task Data Flow Task

OLE DB Source

Slowly Changing Dimension

New Output (3 rows)

Inferred Member Updates Output

OLE DB Command

Connection Managers

- rewsolution.database.windows.net.dlithe.rewan
- rewsolution.database.windows.net.dlithe.rewan 1

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

Autos Locals Watch 1

Call Stack

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready

82°F Partly sunny

6:08 PM 9/22/2022

Meet – kor-urhi-fdv

meet.google.com/kor-urhi-fdv

rewansolution.database.windows.net,1433 (SQL Server 12.0.2000)

Databases

- System Databases
- deltithe
- dlithe
- traingdb
- Database Diagrams
- Tables
- System Tables
- External Tables
- GraphTables
- dbo.department
- dbo.emp1
- dbo.emp2
- dbo.tbl1
- dbo.tbl2
- Views
- External Resources
- Synonyms
- Programmability
- Query Store
- Extended Events
- Storage
- Security
- Integration Services Catalogs

```
[end_date] [date] NULL,
[status] [varchar](20) NULL
) ON [PRIMARY]
GO
INSERT INTO [dbo].[employee]
values(1,'Santosh1','1231231231','2000-01-01','IT',10000,'2022-09-22',null,'')
,(2,'Santosh2','1231231231','2000-01-01','ACCT',10000,'2022-09-22',null,'')

update [dbo].[employee]
set dept='IT'
where [emp_id]=1
```

121% | Messages

(1 row affected)

Completion time: 2022-09-23T10:01:18.5300650+05:30

Query exec Stop sharing Hide rewansolution.database.windows.net rewani (90) traingdb (0) INS

Ready

75°F Mostly sunny

Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [11400] DtsDebugHost.exe Lifecycle Events Thread: Stack Frame:

studentsplit.dtsx [Design] union123.dtsx [Design] union1exde1flat1db.dtsx [Design] slowlychanging.dtsx [Design] sequencecontainer.dtsx [Design] salessplit.dtsx [Design]

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task: Data Flow Task

```

graph TD
    OLEDBSource[OLE DB Source] -- "3 rows" --> SCD[Slowly Changing Dimension]
    SCD -- "New Output" --> InsertDest[Insert Destination]
    SCD -- "Inferred Member Updates Output" --> OLEDBCommand1[OLE DB Command]
    SCD -- "Outgoing Attribute Updates Output (1 rows)" --> OLEDBCommand2[OLE DB Command 1]

```

Connection Managers

- rewansolution.database.windows.net.dlithe.rewan
- rewansolution.database.windows.net.dlithe.rewan 1

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

Autos Call Stack

Name	Type
Autos	
Locals	
Watch 1	

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready

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10:09 AM 9/23/2022

11:57 AM 9/23/2022

DBeaver 22.2.0 - <dlithe> Script.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> **dlithe** - revolution.database.windows.net:1433

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

```
department_id int,
department_name varchar(200),
);
insert into abjk_department values ('01','testing');
insert into abjk_department values ('02','developer');
insert into abjk_department values ('03','devops');

select * from dlithe.dbo.abjk_department
select * from dlithe.dbo.abjk_department_tgt

---target

*create table dlithe.dbo.abjk_department_tgt
(
department_id int,
department_name varchar(200),
);
```

Results 1 Results 1 (2) ×

select * from dlithe.dbo.abjk_department

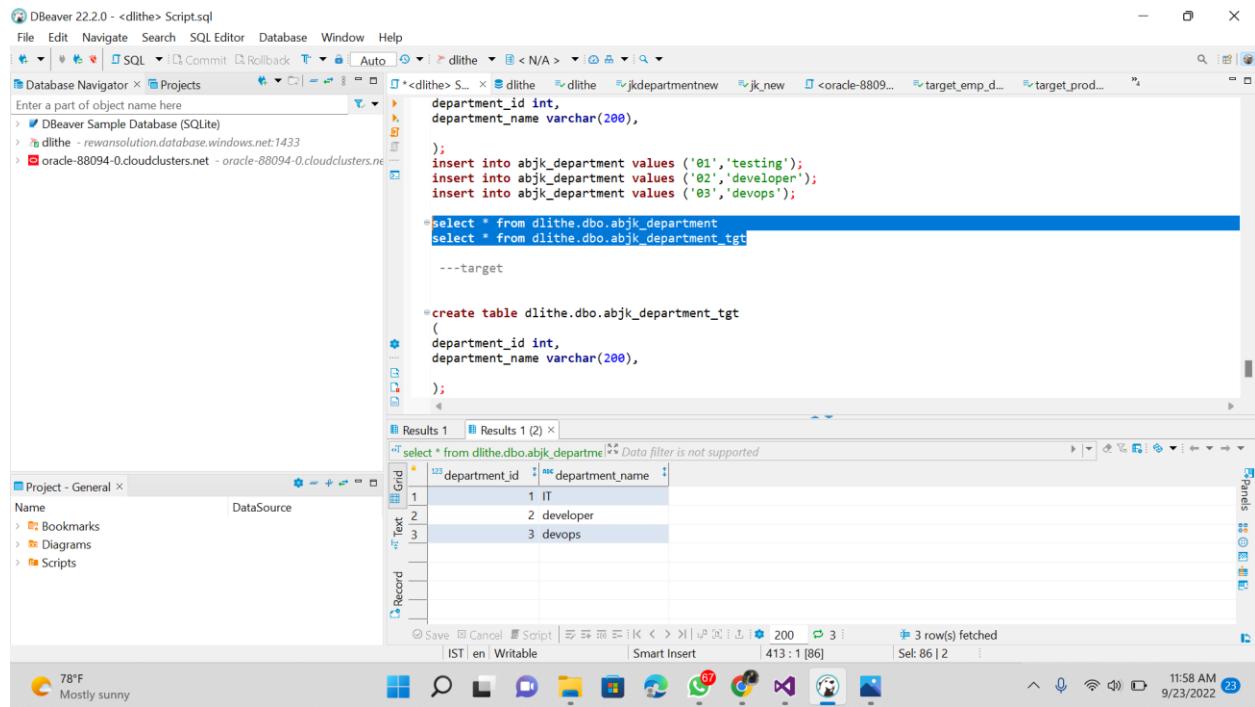
	department_id	department_name
1	1	IT
2	2	developer
3	3	devops

Project - General ×

Name DataSource

- Bookmarks
- Diagrams
- Scripts

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