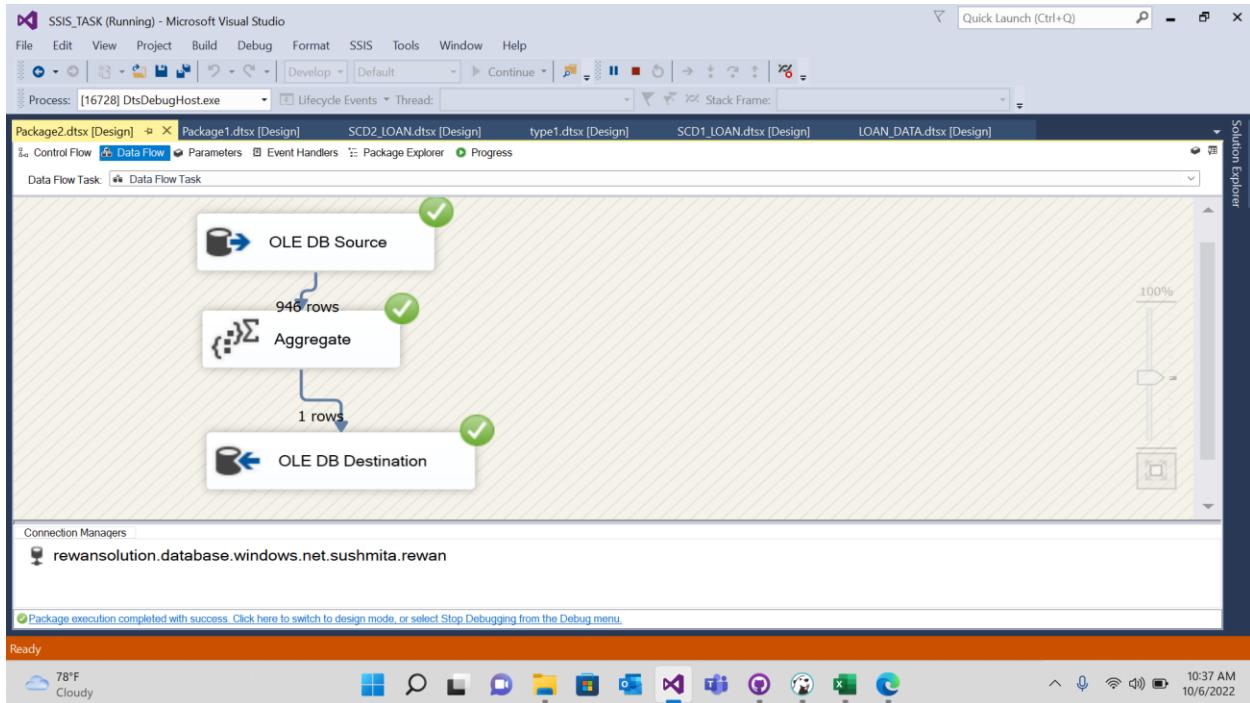


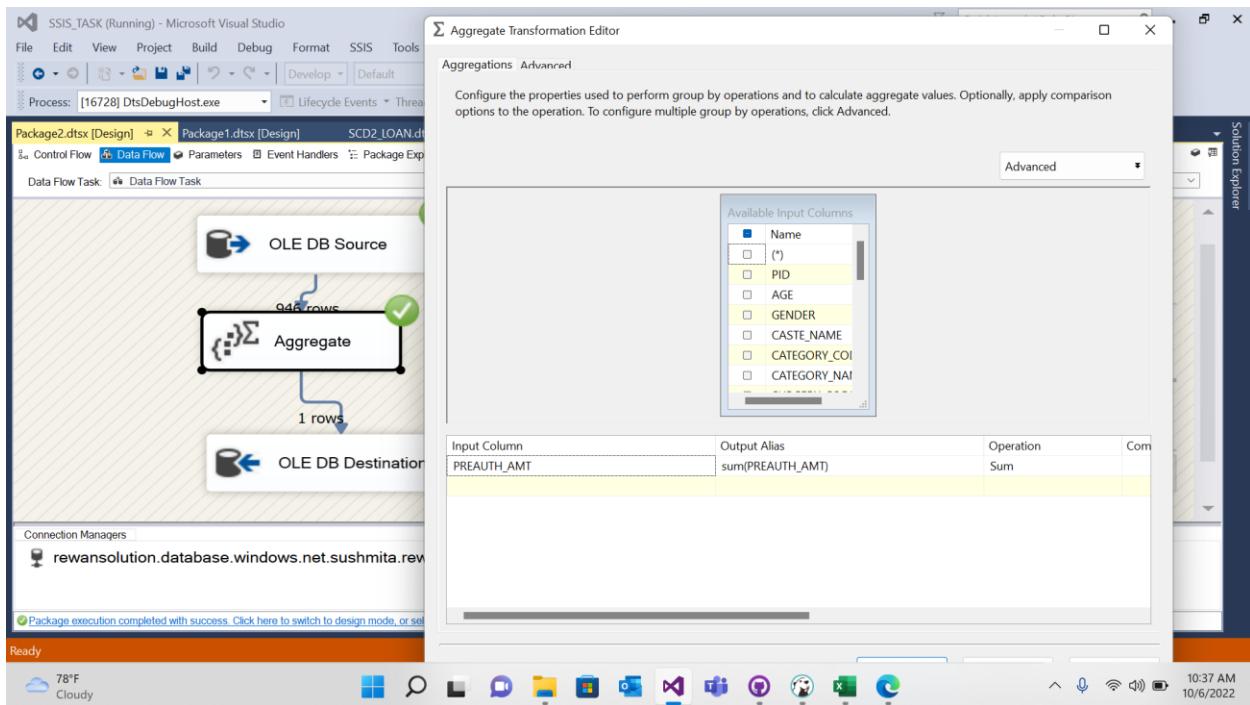
## DATA SOURCE- INSURANCE

### SSIS AGGREGATE

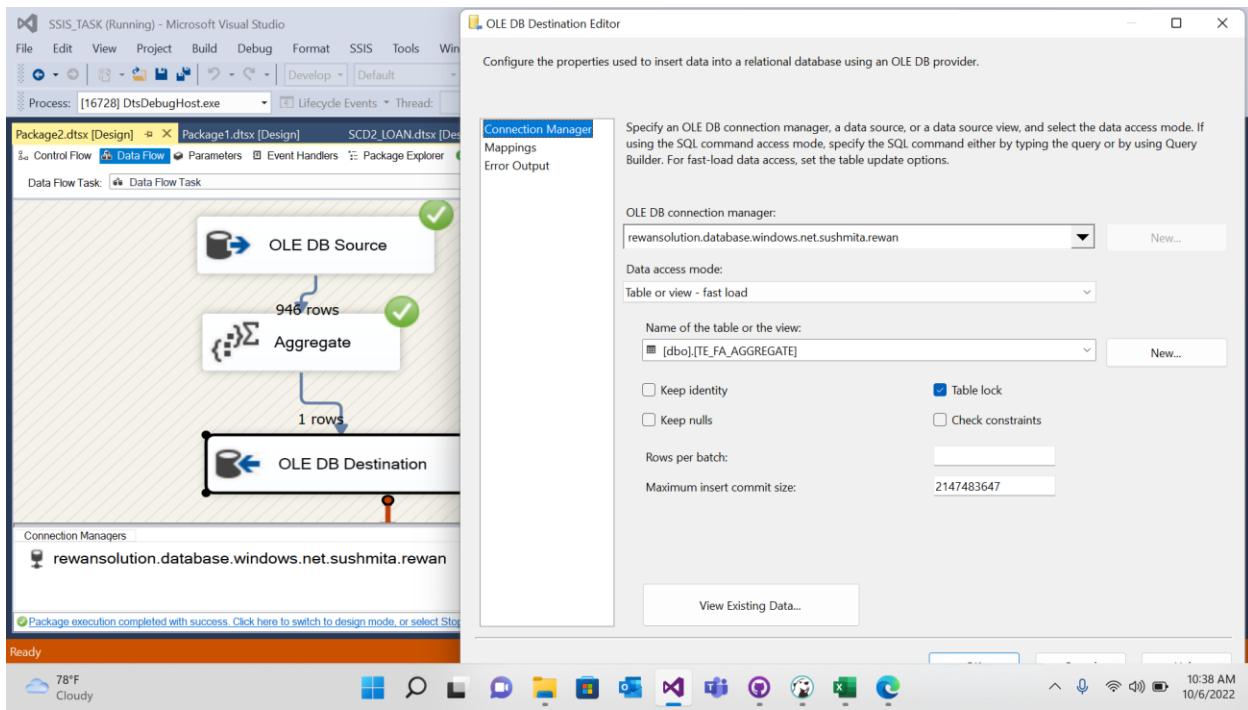
#### SUM STEP1



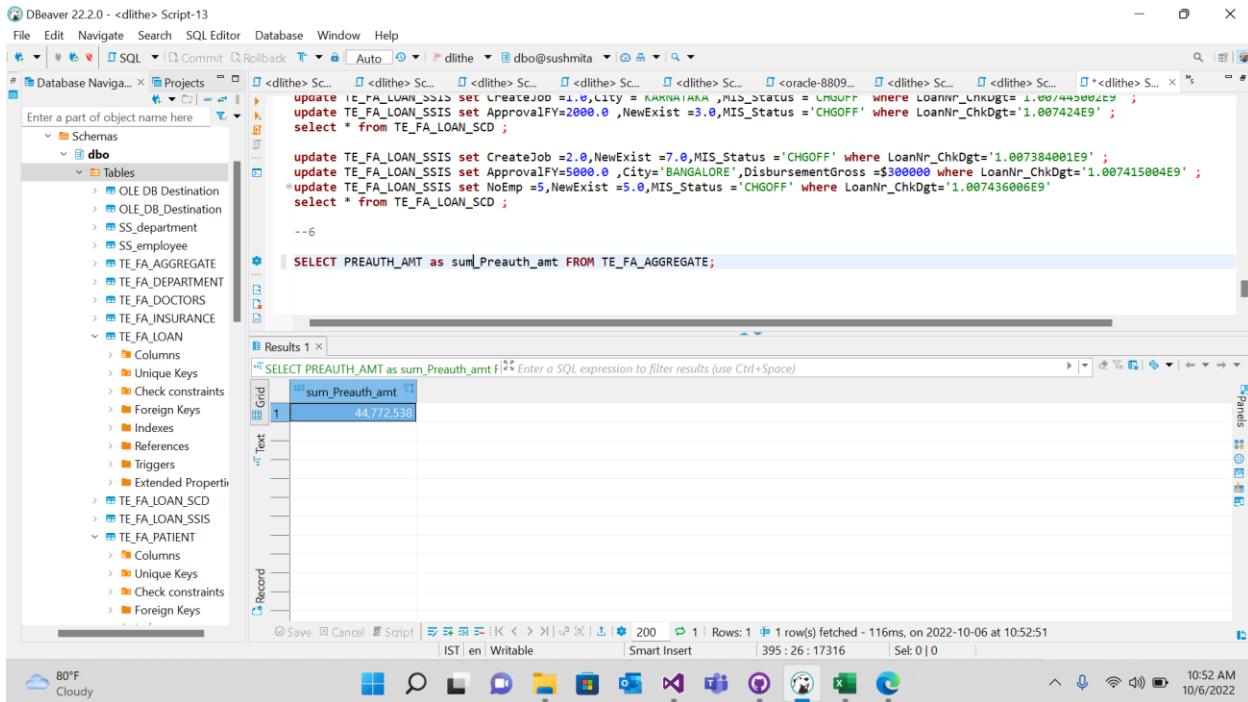
#### SUM STEP2



## SUM STEP3



## SUM RESULT



## AVERAGE STEP1

```

DBBeaver 22.2.0 - <dlithe> Script-13
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator Projects <dlithe> Sc... <dlithe> Sc...
update TE_FA_LOAN_SCD set CreateJob = 1.0, City = 'KARNAKAKA', MIS_Status = 'CHGOFF' where LoanNr_Lnkuge = 1.00443002E9 ;
update TE_FA_LOAN_SCD set ApprovalFY=2000.0 ,NewExist = 3.0,MIS_Status = 'CHGOFF' where LoanNr_ChkDgt='1.007424E9' ;
select * from TE_FA_LOAN_SCD ;

--6

SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;

--7

Statistics 1 x
Name Value
Updated Rows 0
Query ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float
Finish time Thu Oct 06 10:53:53 IST 2022

```

Save Cancel Script IST en Writable Rows: 1 0 row(s) updated - 61ms, on 2022-10-06 at 10:53:53

80°F Cloudy 10:53 AM 10/6/2022

## AVERAGE STEP2

SSIS\_TASK - Microsoft Visual Studio

Aggregate Transformation Editor

Aggregations Advanced

Configure the properties used to perform group by operations and to calculate aggregate values. Optionally, apply comparison options to the operation. To configure multiple group by operations, click Advanced.

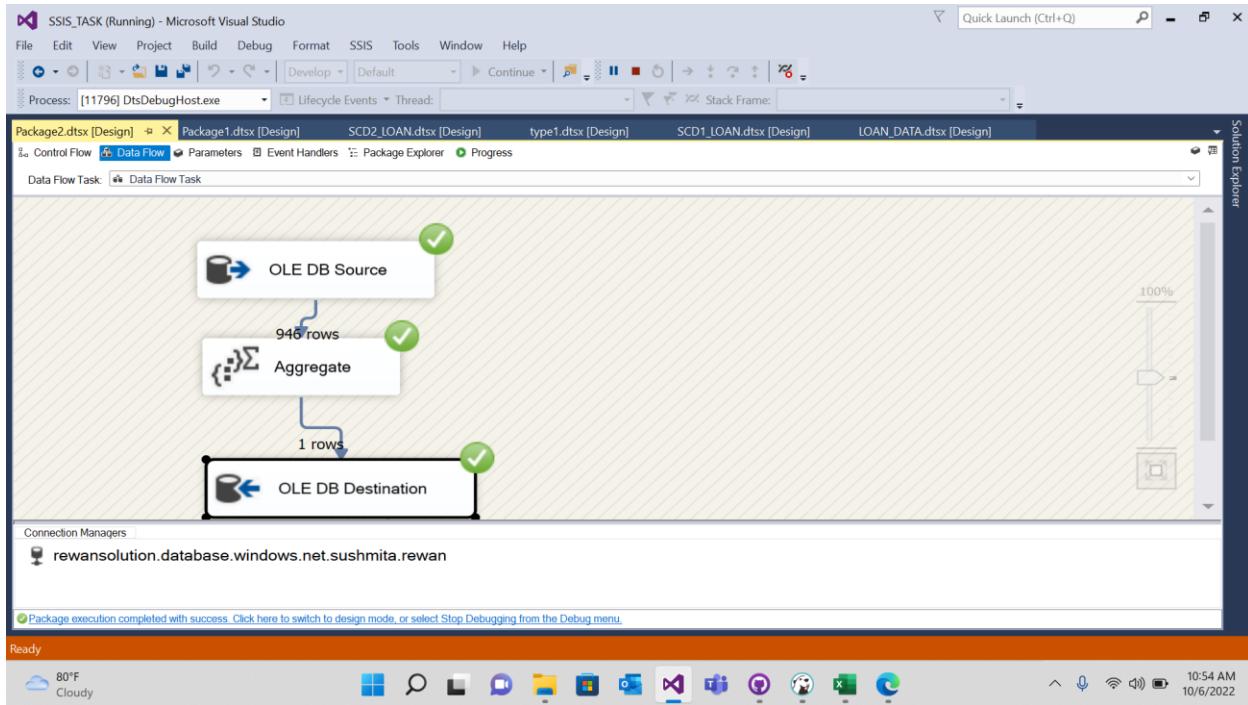
Available Input Columns	Input Column	Output Alias	Operation	Com
Name	PREAUTH_AMT	avg(PREAUTH_AMT)	Average	

Properties

102  
Aggregate  
True  
English (United States)  
**Aggregate**

80°F Cloudy 10:54 AM 10/6/2022

## AVERAGE STEP3



## AVERAGE RESULT

The screenshot shows the DBBeaver 22.2.0 interface. The left sidebar shows the database navigation tree, including schemas like `dbo` and tables like `TE\_FA\_AGGREGATE`. The main area displays an SQL query and its results. The query is:

```

update TE_FA_LOAN_SSIS set CreateJob = 2.0, NewExist = 7.0, MIS_Status = 'CHGOFF' where LoanNr_ChkDgt='1.007384001E9';
update TE_FA_LOAN_SSIS set ApprovalFY=2000.0 ,City='BANGALORE',DisbursementGross =$300000 where LoanNr_ChkDgt='1.007415004E9';
update TE_FA_LOAN_SSIS set NoEmp =5,NewExist = 5.0,MIS_Status ='CHGOFF' where LoanNr_ChkDgt='1.007436006E9';
select * from TE_FA_LOAN_SCD;

--6

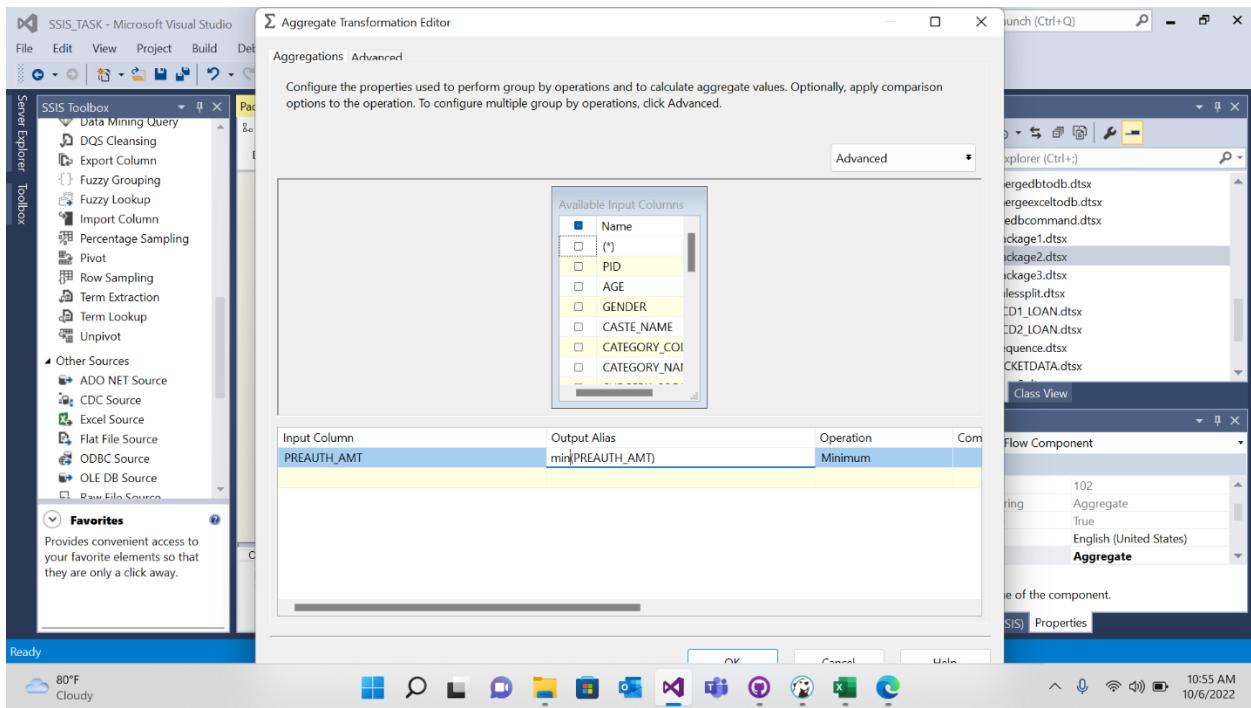
SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;
SELECT * FROM TE_FA_AGGREGATE;

```

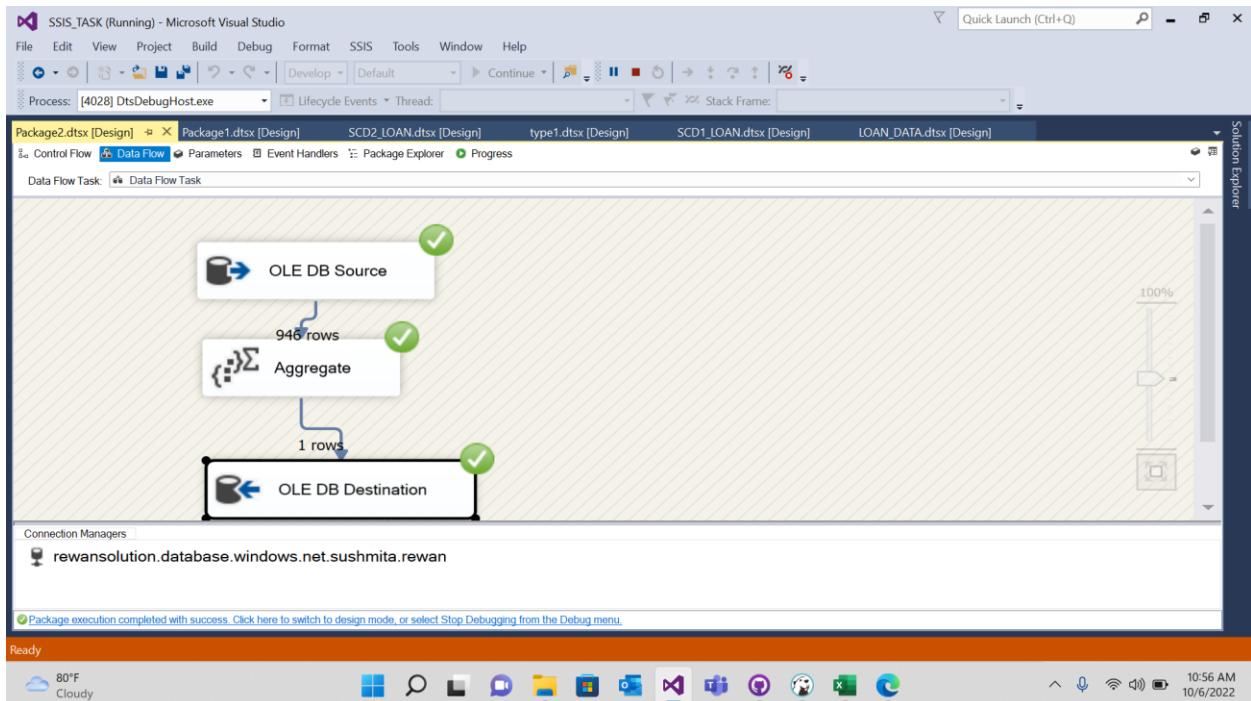
The results table shows:

	PREAUTH_AMT	avg_Preauth_amt
1	44,772,538	(NULL)
2	(NULL)	47,328,264270613

## MINIMUM STEP1



## MINIMUM STEP2



## MINIMUM RESULT

```

DBBeaver 22.2.0 - <dlithe> Script-13
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator Projects <dlithe> Sc... <dlithe> Sc...
Auto... <dlithe> Sc... <dlithe> Sc...
update TE_FA_LOAN_SCD set APPROVALY=2000.0 ,NEWEXIST =3.0,PID_Status = CHGURF where LoanNr_Lnkdg= 1.007424E9 ;
select * from TE_FA_LOAN_SCD ;

update TE_FA_LOAN_SSIS set CreateJob =2.0 ,NewExist =7.0,MIS_Status ='CHGOFF' where LoanNr_ChkDgt='1.007384001E9' ;
update TE_FA_LOAN_SSIS set ApprovalFY=5000.0 ,City='BANGALORE',DisbursementGross =\$300000 where LoanNr_ChkDgt='1.007415004E9' ;
update TE_FA_LOAN_SSIS set NoEmp =5,NewExist =5.0,MIS_Status ='CHGOFF' where LoanNr_ChkDgt='1.007436006E9' ;
select * from TE_FA_LOAN_SCD ;

--6

SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;
SELECT * FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD min_Preauth_amt float;

Results 1
SELECT * FROM TE_FA_AGGREGATE
1 PREAUTH_AMT avg_Preauth_amt min_Preauth_amt
1 44,772,530 [NULL] [NULL]
2 [NULL] 47,328,2642706131 [NULL]
3 [NULL] [NULL] 4,000

```

Save Cancel Script IST en Writable Smart Insert Rows: 1 3 row(s) fetched - 110ms, on 2022-10-06 at 10:56:31 397 : 25 : 17432 Sel 0 | 0

Cloudy 80°F 10:56 AM 10/6/2022

## MAXIMUM STEP1

SSIS\_TASK - Microsoft Visual Studio

Aggregate Transformation Editor

Aggregations Advanced

Configure the properties used to perform group by operations and to calculate aggregate values. Optionally, apply comparison options to the operation. To configure multiple group by operations, click Advanced.

Input Column	Output Alias	Operation	Com
PREAUTH_AMT	max(PREAUTH_AMT)	Maximum	

Available Input Columns

- Name
- (\*)
- PID
- AGE
- GENDER
- CASTE\_NAME
- CATEGORY\_COI
- CATEGORY\_NAI

Properties

102

Aggregate

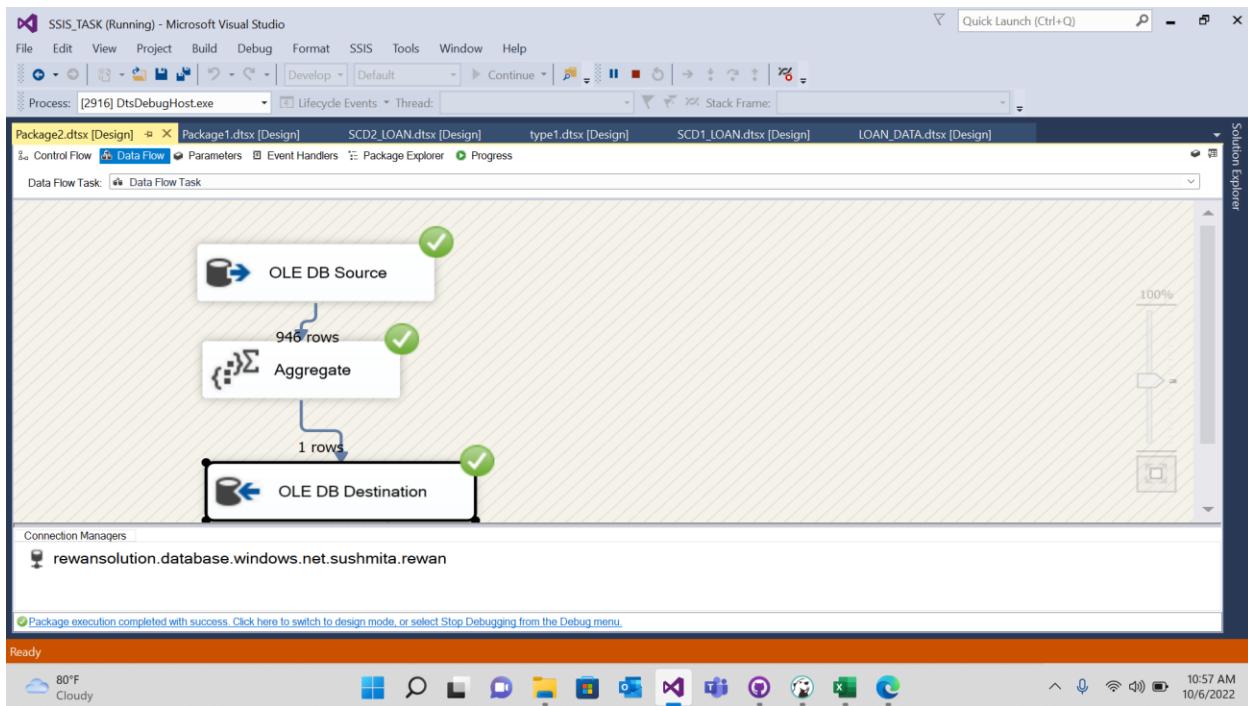
True

English (United States)

Aggregate

10:57 AM 10/6/2022

## MAXIMUM STEP2



## MAXIMUM RESULT

The screenshot shows the DBeaver 22.2.0 interface. In the SQL Editor, a complex SQL script is being run, which includes updates to tables such as 'TE\_FA\_LOAN\_SSIS' and 'TE\_FA\_AGGRGATE', and a select statement from 'TE\_FA\_AGGRGATE'. The Results grid displays the output of the 'SELECT' statement, showing four columns: PREAUTH\_AMT, avg\_Preauth\_amt, min\_Preauth\_amt, and max\_Preauth\_amt. The data in the grid is as follows:

	PREAUTH_AMT	avg_Preauth_amt	min_Preauth_amt	max_Preauth_amt
1	44,772,538	[NULL]	[NULL]	[NULL]
2	[NULL]	47,328,26427,06131	[NULL]	[NULL]
3	[NULL]	[NULL]	4,000	[NULL]
4	[NULL]	[NULL]	520,000	

## COUNT DISTINCT STEP1

```

DBBeaver 22.2.0 - <dlithe> Script-13
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator Projects <dlithe> Sc... <dlithe> Sc...
Enter a part of object name here
Schemas
  dbo
    Tables
      OLE DB Destination
      OLE_DB_Destination
      SS_department
      SS_employee
      TE_FA_AGGREGATE
      TE_FA_DEPARTMENT
      TE_FA_DOCTORS
      TE_FA_INSURANCE
      TE_FA_LOAN
        Columns
        Unique Keys
        Check constraints
        Foreign Keys
        Indexes
        References
        Triggers
        Extended Properties
      TE_FA_LOAN_SCD
      TE_FA_LOAN_SSIS
      TE_FA_PATIENT
        Columns
        Unique Keys
        Check constraints
        Foreign Keys
      Statistics 1
        Name Value
        Updated Rows 0
        Query ALTER TABLE TE_FA_AGGREGATE ADD countdistinct_Preadauth_amt float
        Finish time Thu Oct 06 11:01:40 IST 2022
      Save Cancel Script IST en Writable 200 1 Rows: 1 0 row(s) updated - 68ms, on 2022-10-06 at 11:01:40
      Smart Insert 400 58 : 17609 Sel 0 | 0
      80°F Cloudy 11:01 AM 10/6/2022
  
```

## COUNT DISTINCT STEP2

SSIS\_TASK - Microsoft Visual Studio

Aggregate Transformation Editor

Aggregations Advanced

Configure the properties used to perform group by operations and to calculate aggregate values. Optionally, apply comparison options to the operation. To configure multiple group by operations, click Advanced.

Input Column	Output Alias	Operation	Comments
PREADUTH_AMT	count_distinct(PREADUTH_AMT)	Count distinct	

Properties

102

Aggregate

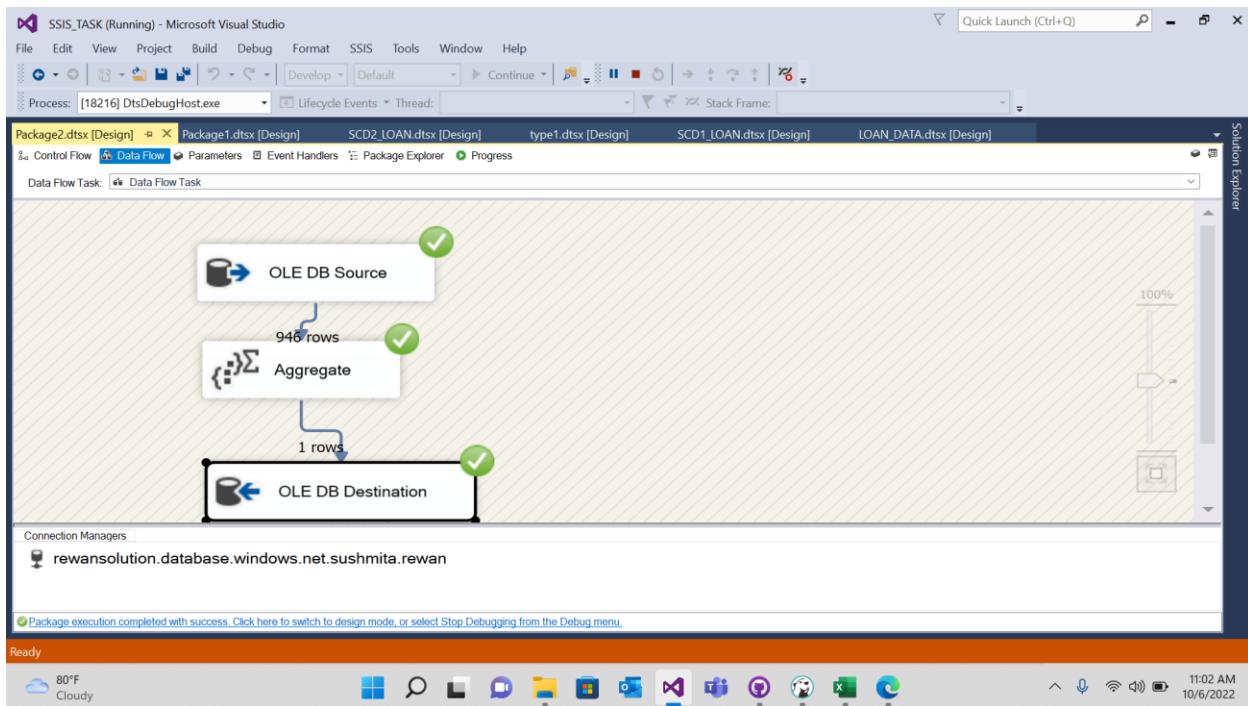
True

English (United States)

Aggregate

11:01 AM 10/6/2022

## COUNT DISTINCT STEP3



## COUNT DISTINCT RESULT

The screenshot shows the DBBeaver 22.2.0 interface. A SQL script is being run against a database named 'sushmita'. The script includes several UPDATE statements and a SELECT statement to calculate the count of distinct Preadauth\_Amt values. The results of the final SELECT statement are displayed in a table:

	PREADAUTH_AMT	avg_Preadauth_amt	min_Preadauth_amt	max_Preadauth_amt	countdistinct_Preadauth_amt
1	44,772.538	(NULL)	(NULL)	(NULL)	(NULL)
2	(NULL)	47,328.2642706131	(NULL)	(NULL)	(NULL)
3	(NULL)	(NULL)	4,000	(NULL)	(NULL)
4	(NULL)	(NULL)	(NULL)	520.000	(NULL)
5	(NULL)	(NULL)	(NULL)	(NULL)	110

## COUNT STEP1

```

update TE_FA_LOAN_SSIS set CreateJob =2.0,NewExist =7.0,MIS_Status ='CHGOFF' where LoanNr_ChkDgt='1.007384001E9';
update TE_FA_LOAN_SSIS set ApprovalFY=5000.0 ,City='BANGALORE',DisbursementGross =$300000 where LoanNr_ChkDgt='1.007415004E9';
update TE_FA_LOAN_SSIS set NoEmp =5,NewExist =5.0,MIS_Status ='CHGOFF' where LoanNr_ChkDgt='1.007436006E9';
select * from TE_FA_LOAN_SCD;

--<
SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;
SELECT * FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD min_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD max_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD countdistinct_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD count_Preauth_amt float;

```

Statistics 1

Name	Value
Updated Rows	0
Query	ALTER TABLE TE_FA_AGGREGATE ADD count_Preauth_amt float
Finish time	Thu Oct 06 11:02:51 IST 2022

Save Cancel Script | IST | en | Writable | Smart Insert | 401 : 38 : 17655 | Sel 0 | 0 | 1 : Rows: 1 | 0 row(s) updated - 52ms, on 2022-10-06 at 11:02:51

## COUNT STEP2

SSIS\_TASK - Microsoft Visual Studio

Aggregate Transformation Editor

Aggregations Advanced

Configure the properties used to perform group by operations and to calculate aggregate values. Optionally, apply comparison options to the operation. To configure multiple group by operations, click Advanced.

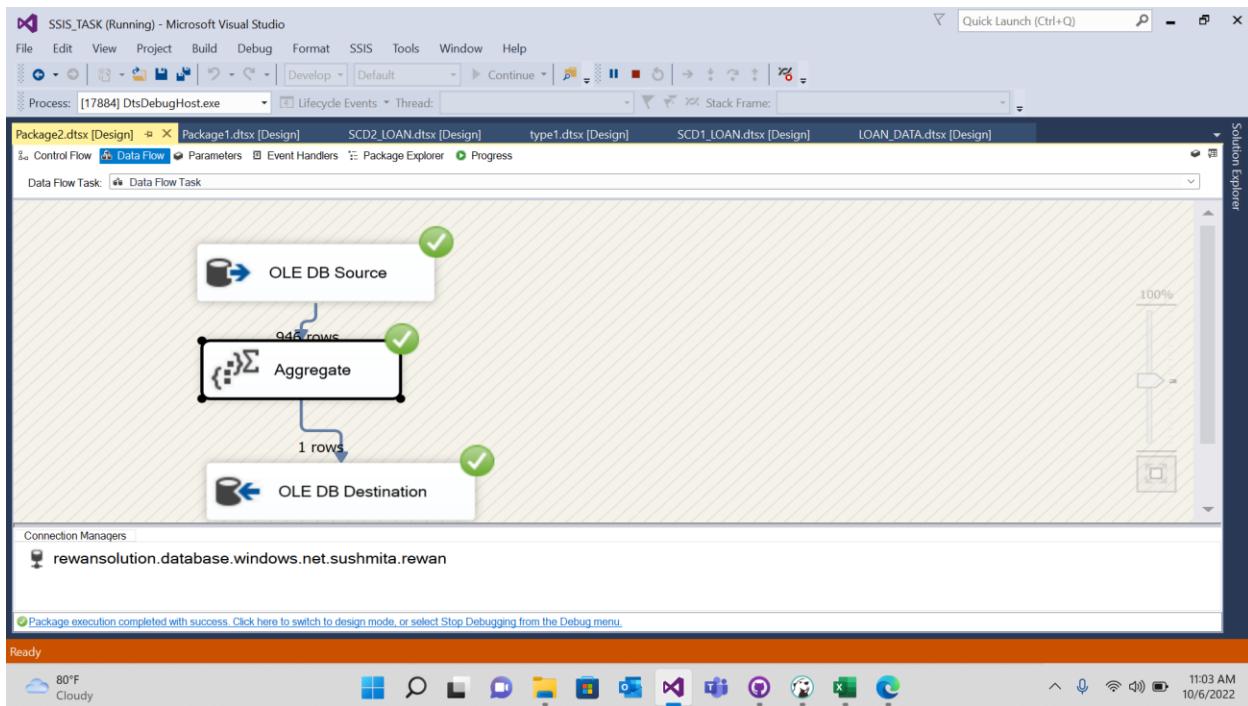
Available Input Columns

Input Column	Output Alias	Operation
PREAUTH_AMT	count(PREAUTH_AMT)	Count

Properties

102  
Aggregate  
True  
English (United States)  
**Aggregate**

## COUNT STEP3



## COUNT RESULT

The screenshot shows the DBBeaver interface. In the top panel, there is a SQL editor window with the following query:

```

update TE_FA_LOAN_SSIS set CreateJob = 2.0, NewExist = 7.0, MIS_Status = 'CHGOFF' where LoanNr_ChkDgt='1.007384001E9';
update TE_FA_LOAN_SSIS set ApprovalFY=5000.0 ,City='BANGALORE',DisbursementGross =$300000 where LoanNr_ChkDgt='1.007415004E9';
update TE_FA_LOAN_SSIS set NoEmp =5,NewExist = 5.0,MIS_Status ='CHGOFF' where LoanNr_ChkDgt='1.007436006E9';
select * from TE_FA_LOAN_SCD ;
--6
SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;
SELECT * FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD min_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD max_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD countdistinct_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD count_Preauth_amt float;

```

In the bottom panel, there is a results grid titled 'Results 1' with the following data:

	PREAUTH_AMT	avg_Preauth_amt	min_Preauth_amt	max_Preauth_amt	countdistinct_Preauth_amt	count_Preauth_amt
1	44,772.538	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)
2	(NULL)	47,328.2642706131	(NULL)	(NULL)	(NULL)	(NULL)
3	(NULL)	(NULL)	4,000	(NULL)	(NULL)	(NULL)
4	(NULL)	(NULL)	(NULL)	520.00	(NULL)	(NULL)
5	(NULL)	(NULL)	(NULL)	(NULL)	110	(NULL)
6	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	946

## GROUP BY STEP1

```

DBBeaver 22.2.0 - <dlithe> Script-13
File Edit Navigate Search SQL Editor Database Window Help
File SQL Commit Rollback Auto... dlithe dbo@sushmita
Database Navigator Projects <dlithe> Sc... <dlithe> Sc...
update TE_FA_LOAN_SSIS set CreateJO = 2.0, NewExist = 1.0, MIS_Status = 'CHGUR' where LoanNr_LnkDt = 1.00/304001E9 ;
update TE_FA_LOAN_SSIS set ApprovalFY=5000.0 ,City='BANGALORE',DisbursementGross = $300000 where LoanNr_ChkDgt='1.007415004E9' ;
update TE_FA_LOAN_SSIS set NoEmp = 5, NewExist = 5.0, MIS_Status = 'CHGOFF' where LoanNr_ChkDgt='1.007436006E9' ;
select * from TE_FA_LOAN_SCD ;

--6

SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;
SELECT * FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD min_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD max_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD countdistinct_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD count_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD grpby_Preauth_amt float;

Statistics 1 x

Name Value
Updated Rows 0
Query ALTER TABLE TE_FA_AGGREGATE ADD grpby_Preauth_amt float
Finish time Thu Oct 06 11:04:21 IST 2022

Save Cancel Script 200 1 Rows: 1 0 row(s) updated - 45ms, on 2022-10-06 at 11:04:21
IST en Writable Smart Insert 402 : 38 : 17713 Sel 0 | 0
Panels
80°F Cloudy 11:04 AM 10/6/2022

```

## GROUP BY STEP2

SSIS\_TASK - Microsoft Visual Studio

Aggregate Transformation Editor

Aggregations Advanced

Configure the properties used to perform group by operations and to calculate aggregate values. Optionally, apply comparison options to the operation. To configure multiple group by operations, click Advanced.

Input Column	Output Alias	Operation	Com
PREAUTH_AMT	groupby(PREAUTH_AMT)	Group by	

Available Input Columns:

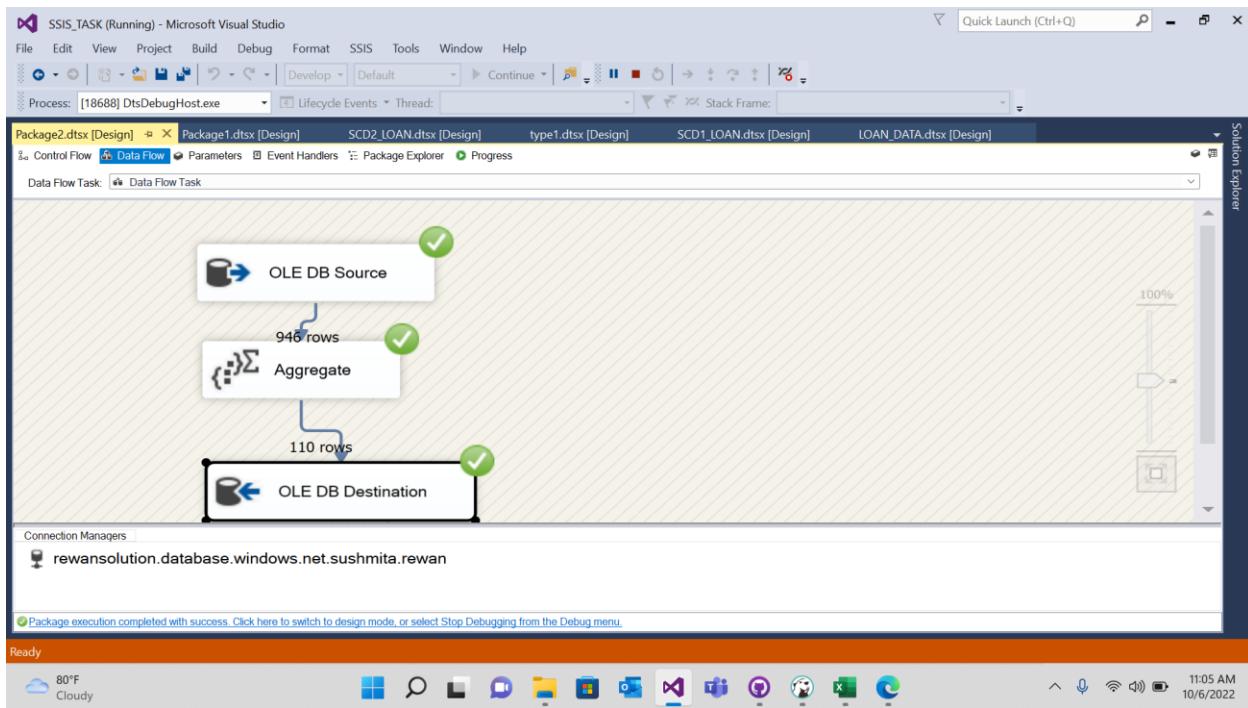
- Name
- (\*)
- PID
- AGE
- GENDER
- CASTE\_NAME
- CATEGORY\_COI
- CATEGORY\_NAI

Properties window:

- Component Type: Aggregate
- True
- English (United States)
- Aggregate

System tray icons: 102, Aggregate, True, English (United States), Aggregate.

## GROUP BY STEP3



## GROUP BY RESULT

The screenshot shows the DBBeaver 22.2.0 interface. A SQL script is being run against a database named 'Script-13'. The script includes several UPDATE statements and a SELECT statement that groups by 'Preath\_Amt'. The results are displayed in a table titled 'Results 1'. The table has columns: REAUTH\_AMT, avg\_Preath\_amt, min\_Preath\_amt, max\_Preath\_amt, countdistinct\_Preath\_amt, count\_Preath\_amt, and grpby\_Preath\_amt. The data shows various values for these metrics across different groups of Preath\_Amt.

REAUTH_AMT	avg_Preath_amt	min_Preath_amt	max_Preath_amt	countdistinct_Preath_amt	count_Preath_amt	grpby_Preath_amt
10	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	26.650
11	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	69.450
12	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	9.910
13	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	36.670
14	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	36.870
15	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	10.000
16	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	10.050
17	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	13.973
18	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	53.000
19	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	19.460
20	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	

## AGGREGATE STEP1

The screenshot shows the DBBeaver interface with a SQL editor window. The code in the editor is as follows:

```

--6
SELECT PREAUTH_AMT as sum_Preauth_amt FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD avg_Preauth_amt float;
SELECT * FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA_AGGREGATE ADD min_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD max_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD countdistinct_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD count_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD grpby_Preauth_amt float;
ALTER TABLE TE_FA_AGGREGATE ADD count_PID float;
ALTER TABLE TE_FA_AGGREGATE ADD avg_age float;
ALTER TABLE TE_FA_AGGREGATE ADD sum_claim_amt float;

```

The Statistics 1 panel shows the following results:

Name	Value
Updated Rows	0
Query	ALTER TABLE TE_FA_AGGREGATE ADD sum_claim_amt float
Finish time	Thu Oct 06 11:12:16 IST 2022

The status bar at the bottom indicates: IST en Writable | Smart Insert | 405 : 15 : 17846 | Sel 0 | 0 | 11:12 AM | 10/6/2022.

## AGGREGATE STEP2

The screenshot shows the Microsoft Visual Studio interface with the SSIS\_TASK project open. The central window is the Aggregate Transformation Editor.

**Aggregations Advanced**

Configure the properties used to perform group by operations and to calculate aggregate values. Optionally, apply comparison options to the operation. To configure multiple group by operations, click Advanced.

**Available Input Columns**

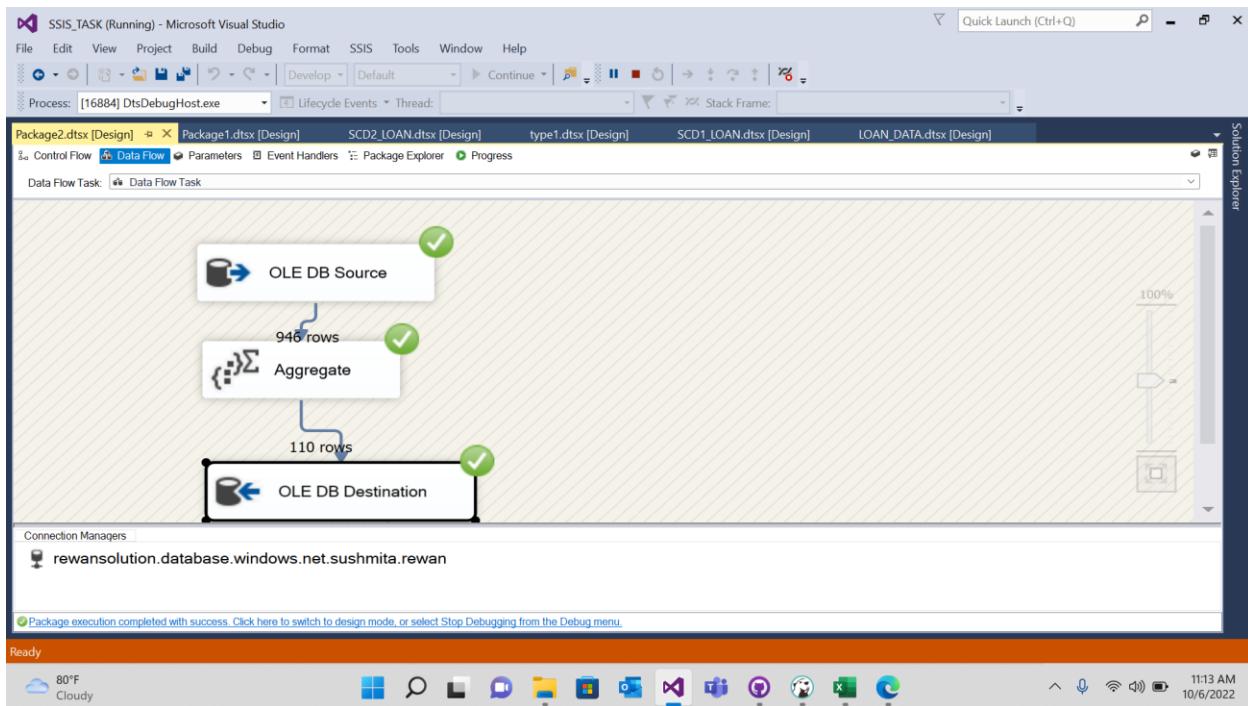
- Name
- DISTRICT\_NAME
- PREAUTH\_DATE
- PREAUTH\_AMT
- CLAIM\_DATE
- CLAIM\_AMOUNT
- HOSP\_NAME
- HOSP\_TYPE

**Input Column**      **Output Alias**      **Operation**      **Comments**

PREAUTH_AMT	groupby(PREAUTH_AMT)	Group by	
PID	count(PID)	Count	
AGE	avg(AGE)	Average	
CLAIM_AMOUNT	sum(CLAIM_AMOUNT)	Sum	

The status bar at the bottom indicates: IST en Writable | Smart Insert | 405 : 15 : 17846 | Sel 0 | 0 | 11:12 AM | 10/6/2022.

## AGGREGATE STEP3



## AGGREGATE RESULT

The screenshot shows the DBBeaver interface with a script window containing SQL code to alter a table and add aggregate columns, and a results window displaying the output of a select query. The results show various statistics for different categories in the 'TE\_FA' table.

```

ALTER TABLE TE_FA_AGGREGATE ADD avg_Preaduth_amt float;
SELECT * FROM TE_FA_AGGREGATE;
ALTER TABLE TE_FA AGGREGATE ADD min_Preaduth_amt float;

```

th_amt	max_Preaduth_amt	countdistinct_Preaduth_amt	count_Preaduth_amt	grpby_Preaduth_amt	count_PID	avg_age	sum_claim_amt
116	[NULL]	[NULL]	[NULL]	[NULL]	18,510	[NULL]	[NULL]
117	[NULL]	[NULL]	[NULL]	[NULL]	100,000	9	33
118	[NULL]	[NULL]	[NULL]	[NULL]	68,890	1	40
119	[NULL]	[NULL]	[NULL]	[NULL]	18,830	1	0
120	[NULL]	[NULL]	[NULL]	[NULL]	26,650	20	49.6
121	[NULL]	[NULL]	[NULL]	[NULL]	69,450	1	0
122	[NULL]	[NULL]	[NULL]	[NULL]	133,540	1	28
123	[NULL]	[NULL]	[NULL]	[NULL]	9,910	1	57
124	[NULL]	[NULL]	[NULL]	[NULL]	36,670	1	55
125	[NULL]	[NULL]	[NULL]	[NULL]	36,870	3	47
126	[NULL]	[NULL]	[NULL]	[NULL]	10,000	17	40
127	[NULL]	[NULL]	[NULL]	[NULL]	10,050	1	67
128	[NULL]	[NULL]	[NULL]	[NULL]	13,973	1	65
129	[NULL]	[NULL]	[NULL]	[NULL]	53,000	1	79
130	[NULL]	[NULL]	[NULL]	[NULL]	19,460	2	20
131	[NULL]	[NULL]	[NULL]	[NULL]	200,000	2	27
132	[NULL]	[NULL]	[NULL]	[NULL]	72,000	1	54
133	[NULL]	[NULL]	[NULL]	[NULL]	37,520	2	39
134	[NULL]	[NULL]	[NULL]	[NULL]	72,320	2	7.5
135	[NULL]	[NULL]	[NULL]	[NULL]	19,710	9	7.444444444444444