

Final Assessment for TietoEvry- Database

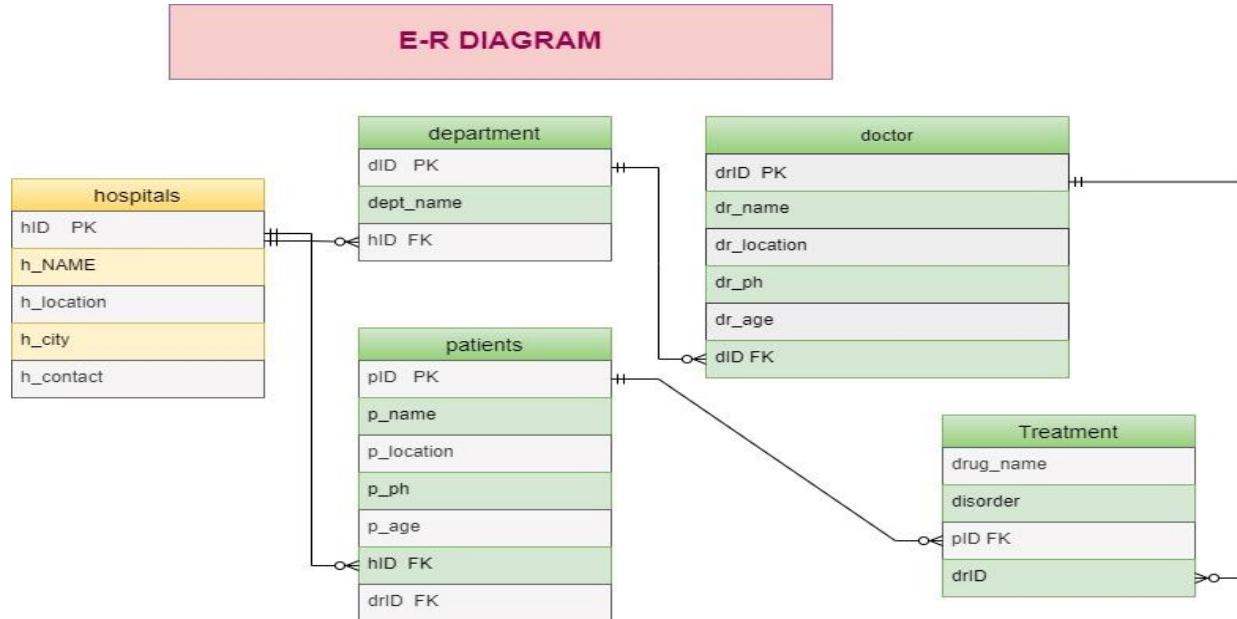
stream - Campus batch 2022

Module 1: SQL Server

1. Perform the normalization

a) Creating tables as per normalization

E-R DIAGRAM



Main Table – hospitals

Child Table – department,patients.

DBeaver 22.0.0 - <shreya> Script-1.sql

```
File Edit Navigate Search SQL Editor Database Window Help
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator × Projects × Auto shreya × dbo@shreya ×
Enter a part of object name here
CREATE TABLE hospitals (
    hID int primary key,
    h_name varchar(80) NOT NULL,
    h_location varchar(50) NOT NULL,
    h_city varchar(20) NOT NULL,
    h_contact varchar(15) NOT NULL,
);

CREATE TABLE department (
    dID int PRIMARY KEY ,
    dr_name varchar(30) ,
    dr_ph varchar(15) ,
    dr_location varchar(50) ,
    dr_age int ,
    dept_name varchar(30) ,
    hID int FOREIGN KEY (hID) REFERENCES hospitals(hID),
    dID int FOREIGN KEY (dID) REFERENCES department(dID),
);

CREATE TABLE patients (
    pID int primary key,
    p_name varchar(30) ,
    p_location varchar(50) ,
    p_ph varchar(15),
    p_age int ,
    hID int FOREIGN KEY (hID) REFERENCES hospitals(hID),
    dID int FOREIGN KEY (dID) REFERENCES department(dID),
);
```

Project - General

- Name: DataSource
- Bookmarks
- Diagrams
- Scripts

73°F Raining now

IST | en | Writable | Smart Insert | 317 : 40 : 8505 | Sel: 0 | 0 | 5:46 PM 10/9/2022

b) Inserting the data into tables.

The screenshot shows two separate sessions in DBBeaver:

- Session 1 (Top):** Inserts data into the `hospitals` table. The query is as follows:

```

insert into hospitals
values (1, 'Bowring hospital','Shivajinagar bus stand Cantonment',' Bangalore', '9678930216),
(2, 'Mally Hospital','Vittal Mally Road','Bangalore', '7865432109),
(3, 'E.S.I Hospital','Hospital HAL II Stage Indiranagar', ' Bangalore', '8976543210),
(4, 'KLES Hospital','Nehru Nagar', 'Hassan', '8765489765),
(5, 'Adichunchanagiri Hospital','Balagangadhara Nagar', 'Mysore', '6754345210),
(6, 'Kasturba Hospital','Manipal udupi', 'Udupi', '9976543010),
(7, 'KMC Hospital',' jyothi circle', 'Mangalore', '8886543010),
(8, 'Columbia Asia Hospital',' palace road', 'Mysore', '9988888510),
(9, 'Columbia Asia Hospital',' yashwanthpur main road', 'Bangalore', '9456343010),
(10, 'Columbia Asia Hospital',' yashwanthpur main road', 'Bangalore', '9456343010);

```

- Session 2 (Bottom):** Inserts data into the `patients` table. The query is as follows:

```

insert into patients values(301, 'Param', 'Bangalore', '8765489034,33,1,100),
(302, 'Soukya', 'Davengere', '87654112139,33,1,101),
(303, 'Vp', 'Hassan', '9112489034,77,1,101),
(304, 'Abhignya', 'Mandy', '8411289034,54,1,110),
(305, 'Manoj', 'Bangalore', '8765664534,33,1,110),
(306, 'Arun', 'Mysore', '6453489034,41,8,102),
(307, 'Sammy', 'Mangalore', '9765645334,49,8,102),
(308, 'Radha', 'Mangalore', '8899486453,51,8,102),
(309, 'Krish', 'Mangalore', '9767685453,15,8,102),
(310, 'Davinci', 'Lahore', '9865486453,48,3,103),
(311, 'Manu', 'Mangalore', '9765465483,48,3,103),
(312, 'Marry', 'Darmasthal', '9733386453,98,3,103),
(313, 'Reginald', 'Mangalore', '9765000053,23,3,103),
(314, 'Akshay', 'Mukti', '7765868453,51,4,104),
(315, 'Chai', 'Hassan', '8800886453,65,4,104),
(316, 'Manasa', 'Hassan', '8332286453,76,4,104),
(317, 'Sumana', 'Manipal', '9097886453,31,4,104),
(318, 'Mohini', 'Mangalore', '9765000088,79,6,105),
(319, 'Shank', 'Kochi', '9554055328,69,2,105),
(320, 'Pari', 'Bangalore', '7008864532,15,3,105),
(321, 'Gerry', 'Mangalore', '9912153340,23,6,105),
(322, 'Zooky', 'Bangalore', '9765883253,26,3,106),
(323, 'Darren', 'Bangalore', '99653221453,29,3,106),
(324, 'Sammy', 'Mysore', '9765099203,33,3,107),
(325, 'Vineeth', 'Mandy', '9765908733,53,9,107),
(326, 'Suhas', 'Kerala', '9765003420,63,10,107),
(327, 'Virat', 'Assam', '8121586453,85,10,108),
(328, 'Kanika', 'Delhi', '8800812153,34,10,108),
(329, 'Chiranth', 'Bangalore', '8812156453,55,5,109),
(330, 'Nina', 'Hassan', '8800889867,69,1,109),
(331, 'Sammy', 'Mangalore', '9765099203,51,3,110),
(332, 'Sammy', 'Mangalore', '9765099203,76,3,111),
(333, 'Nihal', 'Bihar', '9765099203,76,3,111),
(334, 'Paul', 'Belgaum', '9765099203,73,3,111),
(335, 'Samv.k.', 'Ganzzaaean', '9765099203,32.3.112);

```

c) Join the table

INNER JOIN

The screenshot shows the results of an INNER JOIN query:

```

Select H.hID,H.h_name,D.D_ID,D.dr_name,D.dept_name,P.pID,P.p_name
from hospitals H
inner join department D
ON H.hID =D.hID
INNER JOIN patients P
on D.D_ID =P.D_ID ;

```

Results 1 :

H.hID	H.h_name	D.D_ID	D.dr_name	D.dept_name	P.pID	P.p_name
1	Bowring hospital	100	dr.shreya	ENT	301	Param
2	Bowring hospital	101	dr.vibha	GYNAECOLOGY	302	Soukya
3	Bowring hospital	102	dr.Ram	ORTHOPAEDICS	306	Arun
4	KMC Hospital	102	dr.Ram	ORTHOPAEDICS	307	Sammy
5	KMC Hospital	102	dr.Ram	ORTHOPAEDICS	308	Radha
6	KMC Hospital	102	dr.Ram	ORTHOPAEDICS	309	Krish
7	KMC Hospital	102	dr.Ram	ORTHOPAEDICS	310	Davinci
8	F.S.I Hospital	103	dr.Antony	NEUROLOGY	311	Manu
9	F.S.I Hospital	103	dr.Antony	NEUROLOGY	312	Mary
10	F.S.I Hospital	103	dr.Antony	NEUROLOGY	313	Reginald
11	F.S.I Hospital	103	dr.Antony	NEUROLOGY	314	Akshay
12	KLES Hospital	104	dr.Shari	SURGERY	315	Chai
13	KLES Hospital	104	dr.Shari	SURGERY	316	Manosa
14	KLES Hospital	104	dr.Shari	SURGERY	317	Shama
15	KLES Hospital	104	dr.Shari	SURGERY	318	Shama

RIGHT JOIN

The screenshot shows the DBBeaver interface with the following details:

- File Bar:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help.
- Toolbar:** Undo, Redo, Save, Commit, Rollback, Auto, shreya, dbo@shreya, Refresh, Search.
- Database Navigator:** Projects, <dithe> queries.sql, <shreya> Script-1.sql, <shreya> SSIS.sql, <shreya> Viewsss.sql, Cinema_ASSIGN_data, <shreya> IISI.sql, shreya, dbo.
- Search Bar:** Enter a part of object name here.
- Object Tree:** rewansolution.database.windows.net, Oracle databases, Security, Administrator, oracle-88094-0.cloudclusters.net - oracle-8, shreya - rewansolution.database.windows.net, Databases, Schemas, shreya, dbo, Tables, Aggregate_Employees, Assign_Aggrigate_cinema, Cinema_ASSIGN_data, Dbdata, Dim_Employees, FA_CARS_SCD2, Final original cars data.
- Query Editor:** SELECT H.hID, H.h_name, H.h_location, H.h_city, H.h_contact, D.dID, D.dr_name, D.dept_name, P.pID, P.p_name, P.p_ph
FROM hospitals H
RIGHT JOIN department D
ON H.hID =D.hID
RIGHT JOIN patients P
ON D.dID =P.dID;
- Results Grid:** Results 1, Grid View, Row 1: hID, h_name, h_location, h_city, h_contact, dID, dr_name, dept_name, pID, p_name, p_ph. Rows 2-15 show data from Bowring Hospital, KMC Hospital, E.S.I Hospital, and KLES Hospital across various cities like Bangalore, Mangalore, Hassan, etc., with columns for hospital ID, name, location, city, contact, department ID, doctor name, department name, patient ID, name, and phone number.
- Bottom Bar:** Save, Cancel, Script, IST en Writable, Smart Insert, Rows: 1, 35 rows(fetched - 161ms), 10/09/2022 at 18:06:31, Sel: 213 | 6.
- Status Bar:** 72°F Raining now.

LEFT JOIN

FULL JOIN

DBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

<dlithe - rewsolution.database.windows.net>

- Databases
- Security
- Administrator
- oracle-88094-0.cloudclusters.net - oracle-6
- <shreya - rewsolution.database.windows.net>
- Databases
- shreya
- Schemas
- dbo
- Tables
- Aggregate_Employees
- Assign_Aggreate_cinem...
- Cinema_ASSIGN_data
- Dbdata
- Dim_Employees
- FA_CARS_SCD2
- Final original cars data

Project - General

Name: DataSource

Bookmarks

Diagrams

Scripts

<dlithe queries.sql <shreya> Script-1.sql <shreya> SSIS.sql <shreya> Viewss.sql <Cinema_ASSIGN_data> <shreya> IISC.sql shreya dbo

```
-----  
Select H.HID,H.h_name,H.h_location ,H.h_city ,H.h_contact ,D.dID,D.dr_name,D.dept_name,P.pID,P.p_name,P.p_ph  
from hospitals H  
full join department D  
ON H.HID=D.hID  
full JOIN patients P  
on D.dID =P.dID ;
```

Results 1

	HID	h_name	h_location	h_city	h_contact	dID	dr_name	dept_name	pID	p_name	p_ph
1	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	100	dr.shreya	ENT	301	Param	876548
2	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	100	dr.shreya	ENT	302	Soukya	876541
3	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	101	dr.vibha	GYNAECOLOGY	303	Vp	911248
4	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	110	dr.Mohan	CARDIOLOGY	304	Abhignya	841128
5	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	110	dr.Mohan	CARDIOLOGY	305	Manoj	876566
6	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	110	dr.Mohan	CARDIOLOGY	331	Sammy	976509
7	1	Bowing hospital	Shivajinagar bus stand Cantonment	Bangalore	9678930216	110	dr.Mohan	CARDIOLOGY	332	Sammy	976509
8	2	Mally Hospital	Vittal Mallya Road	Bangalore	7865432109	111	dr.Arun	dental	333	Nihal	976509
9	2	Mally Hospital	Vittal Mallya Road	Bangalore	7865432109	111	dr.Arun	dental	334	Paul	976509
10	3	E.S.I Hospital	Hospital HAL II Stage Indiranagar	Bangalore	8976543210	103	dr.Antony	NEUROLOGY	310	Davinci	986548
11	3	E.S.I Hospital	Hospital HAL II Stage Indiranagar	Bangalore	8976543210	103	dr.Antony	NEUROLOGY	311	Manu	976546
12	3	E.S.I Hospital	Hospital HAL II Stage Indiranagar	Bangalore	8976543210	103	dr.Antony	NEUROLOGY	312	Marry	973338
13	3	E.S.I Hospital	Hospital HAL II Stage Indiranagar	Bangalore	8976543210	103	dr.Antony	NEUROLOGY	313	Reginald	976500
14	3	E.S.I Hospital	Hospital HAL II Stage Indiranagar	Bangalore	8976543210	113	dr.nommy	Radiology	[NULL]	[NULL]	[NULL]
15	4	KIHS Hospital	Nahrimanar	Hassan	8765484765	104	dr.Sham	SIURGRY	314	Akshay	776658

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CROSS JOIN

DBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

<dlithe - rewsolution.database.windows.net>

- Databases
- Security
- Administrator
- oracle-88094-0.cloudclusters.net - oracle-6
- <shreya - rewsolution.database.windows.net>
- Databases
- shreya
- Schemas
- dbo
- Tables
- External Tables
- Views
- Indexes
- Procedures
- Sequences
- Synonyms
- Triggers
- Data Types

Project - General

Name: DataSource

Bookmarks

Diagrams

Scripts

<dlithe queries.sql <shreya> Script-1.sql <shreya> SSIS.sql <shreya> Viewss.sql <Cinema_ASSIGN_data> <shreya> IISC.sql shreya dbo

```
--cross_join  
-----  
select P.pID,P.p_name ,P.p_age ,P.p_location ,D.dID ,D.dr_name ,D.dept_name ,H.HID ,H.h_name ,H.h_location ,H.h_contact  
from patients as P  
cross join department as D  
cross join hospitals as H;
```

Results 1

	P.pID	P.p_name	P.p_age	P.p_location	D.dID	D.dr_name	D.dept_name	H.HID	H.h_name	H.h_location	H.h_contact
1	301	Param	33	Bangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
2	302	Soukya	39	Davengere	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
3	303	Vp	77	Hassan	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
4	304	Abhignya	35	Mandy	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
5	305	Manoj	33	Bangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
6	306	Arun	41	Mysore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
7	307	Sammy	49	Mangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
8	308	Radha	51	Mangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
9	309	Krish	15	Mangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
10	310	Davinci	40	Lahore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
11	311	Manu	48	Mangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
12	312	Marry	98	Darmasthala	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
13	313	Reginald	23	Mangalore	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
14	314	Akshay	51	Mulki	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
15	315	Chai	65	Hassan	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893
16	316	Manasa	76	Hassan	100	dr.shreya	ENT	1	Bowing hospital	Shivajinagar bus stand Cantonment	967893

71°F Raining now 7:46 PM 10/9/2022

d) Create different views

SIMPLE VIEW

DBBeaver 22.2.0 - <shreya> Viewss.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

---no of patients visited defined cities---

```
CREATE VIEW same_cities AS
SELECT p_location , count(pID) AS no_of_patients FROM patients
GROUP BY p_location
HAVING p_location = 'Mangalore' OR p_location = 'Bangalore' OR p_location = 'Delhi';

SELECT * FROM same_cities;
```

Results 1

p_location	no_of_patients
Bangalore	6
Delhi	1
Mangalore	8

Save Cancel Script | IST en Writable | Smart Insert | 200 | Rows: 1 | 3 row(s) fetched - 91ms, on 2022-10-09 at 19:48:26 | 10:1 [26] | Sel: 26 | 1 | 7:48 PM 10/9/2022

COMPLEX VIEW

DBBeaver 22.2.0 - <shreya> Viewss.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects

Enter a part of object name here

```
CREATE VIEW full_join AS
SELECT H.hID, H.h_name, D.dID, D.dr_name, P.pID, P.p_name
FROM hospitals H
FULL JOIN department D
ON H.hID = D.hID
FULL JOIN patients P
ON D.dID = P.dID;

SELECT * FROM full_join;
```

Results 1

hID	h_name	dID	dr_name	pID	p_name
1	Bowring hospital	100	dr.shreya	301	Param
2	Bowring hospital	100	dr.shreya	302	Soukya
3	Bowring hospital	101	dr.viloba	303	Vp
4	Bowring hospital	110	dr.Mohan	304	Abhignya
5	Bowring hospital	110	dr.Mohan	305	Manoj
6	Bowring hospital	110	dr.Mohan	331	Sammy
7	Bowring hospital	110	dr.Mohan	332	Sammy
8	Mallya Hospital	111	dr.Arun	333	Nihal
9	Mallya Hospital	111	dr.Arun	334	Paul
10	E.S.I Hospital	103	dr.Antony	310	Davinci
11	E.S.I Hospital	103	dr.Antony	311	Manu
12	E.S.I Hospital	103	dr.Antony	312	Marry
13	E.S.I Hospital	103	dr.Antony	313	Reginald
14	E.S.I Hospital	113	dr.nommy	[NULL]	[NULL]
15	KLES Hospital	104	dr.Sham	314	Akshay
16	KLES Hospital	104	dr.Sham	315	Chai

Save Cancel Script | IST en Writable | Smart Insert | 200 | Rows: 1 | 36 row(s) fetched - 91ms, on 2022-10-09 at 19:53:30 | 31:25:753 | Sel: 0 | 0 | 7:53 PM 10/9/2022

VIEW ON NO.OF PATIENTS WHO HAD A CHECK UP MORE THAN ONCE

DBeaver 22.2.0 - <shreya> Viewss.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <dlithe> queries.sql <shreya> Script-1.s... <shreya> SSIS.sql <shreya> Viewss.sql Cinema_ASSIGN_data <shreya> IISCISSQL.shreya dbo

Enter a part of object name here

```
----patient who had a check up more than once-----

CREATE view multiple_checkup_patients as
select p_name ,count(pID) as repeated from patients group by p_name
having count(pID)>1;

SELECT * from multiple_checkup_patients;
```

Results 1

p_name	repeated
Sammy	4

Save Cancel Script IST en Writable Smart Insert 7:55 PM 10/9/2022

VIEW ON NO.OF DOCTORS WHO HAD NO CHECK ON ANY PATIENTS

DBeaver 22.2.0 - <shreya> Viewss.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <dlithe> queries.sql <shreya> Script-1.s... <shreya> SSIS.sql <shreya> Viewss.sql Cinema_ASSIGN_data <shreya> IISCISSQL.shreya dbo

Enter a part of object name here

```
-- dr_nocheckup source

create view dr_nocheckup as
select D.dID,D.dr_name,D.dept_name,P.pID
from patients P
right join department D on D.dID=P.dID where P.pID is NULL;

SELECT * from dr_nocheckup;
```

Results 1

dID	dr_name	dept_name	pID
113	dr.nommy	Radiology	[NULL]

Save Cancel Script IST en Writable Smart Insert 7:57 PM 10/9/2022

2. Using transaction table perform various operations (DDL,DML,DCL,TCL)

At least two data source or more, Refer to the data source

CREATE TABLE

INSERT

ALTER

DBBeaver 22.2.0 - <shreya> DDL,DML.sql

```
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator Projects Auto_ shreya dbo@shreya
Enter a part of object name here
dilthe - rewsolutions.database.windows.net
  Databases Security Administrator
oracle-88094-0.cloudclusters.net - oracle-6
  Databases
    shreya
      Schemas
        dbo
          Tables External Tables Views Indexes Procedures Sequences Synonyms Triggers Data Types
      ...
Project - General
Name DataSource
  Bookmarks Diagrams Scripts
  71°F Raining now
```

```
insert into Assign_Query_CAR_SALES values
(1002, '6 Carioca Trail', 'Vidoo', '159-34-3380', 3598, 'Mercury', 'Sable', 'Khaki', 1996, 562701.11 , '48951-314';
(1003, '8 Carioca Trail', 'Vidoo', '159-34-3380', 3598, 'Mercury', 'Sable', 'Khaki', 1996, 562701.11 , '48951-314;
(1004, '9 Carioca Trail', 'Vidoo', '159-34-3380', 3598, 'Mercury', 'Sable', 'Khaki', 1996, 562701.11 , '48951-314;
```

```
alter table Assign_Query_CAR_SALES
add owner_name nvarchar;
select * from Assign_Query_CAR_SALES ;
```

Results 1

Name	PostalCode	Sales	Quantity	Discount	CreditCardType	CreditCard	CustomerFeedback	owner_name
1	46,614	885,826.68	1	0.78	maestro	5,020,000,000,000,000	Very Bad	[NULL]
2	46,614	885,826.68	1	0.78	maestro	5,020,000,000,000,000	Very Bad	[NULL]
3	46,614	885,826.68	1	0.78	maestro	5,020,000,000,000,000	Very Bad	[NULL]

Save Cancel Script IST en Writable Smart Insert 200 3 Rows: 1 3 row(s) fetched - 89ms, on 2022-10-09 at 20:09:43 60: 1 [105] Sel: 105 | 4 8:01 PM 10/9/2022

UPDATE

DBBeaver 22.2.0 - <shreya> DDL,DML.sql

```
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator Projects Auto_ shreya dbo@shreya
Enter a part of object name here
dilthe - rewsolutions.database.windows.net
  Databases Security Administrator
oracle-88094-0.cloudclusters.net - oracle-6
  Databases
    shreya
      Schemas
        dbo
          Tables External Tables Views Indexes Procedures Sequences Synonyms Triggers Data Types
      ...
Project - General
Name DataSource
  Bookmarks Diagrams Scripts
  71°F Raining now
```

```
--update
update Assign_Query_CAR_SALES
set SupplierName = 'shreya'
where SupplierID =1002;

select * from Assign_Query_CAR_SALES ;
```

```
--delete
delete from Assign_Query_CAR_SALES
where SupplierID =1004;
```

```
--RENAME
alter table Assign_Query_CAR_SALES
RENAME COLUMN SupplierID TO Supplier__ID

EXEC SP_RENAME 'Assign_Query_CAR_SALES ', 'Assign_Query_CAR_SALES '
```

```
--TRUNCATE
```

Results 1

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear
1	6 Carioca Trail	shreya	159-34-3380	3,598	Mercury	Sable	Khaki	1
2	1,003 8 Carioca Trail	Vidoo	159-34-3380	3,598	Mercury	Sable	Khaki	1
3	1,004 9 Carioca Trail	Vidoo	159-34-3380	3,598	Mercury	Sable	Khaki	1

Save Cancel Script IST en Writable Smart Insert 200 3 Rows: 1 3 row(s) fetched - 88ms, on 2022-10-09 at 20:11:03 76: 1 [126] Sel: 126 | 5 8:11 PM 10/9/2022

DELETE

DBBeaver 22.2.0 - <shreya> DDL,DML.sql

```
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator Projects Auto_ shreya dbo@shreya
Enter a part of object name here
dilthe - rewsolutions.database.windows.net
  Databases Security Administrator
oracle-88094-0.cloudclusters.net - oracle-6
  Databases
    shreya
      Schemas
        dbo
          Tables External Tables Views Indexes Procedures Sequences Synonyms Triggers Data Types
      ...
Project - General
Name DataSource
  Bookmarks Diagrams Scripts
  71°F Raining now
```

```
--update
update Assign_Query_CAR_SALES
set SupplierName = 'shreya'
where SupplierID =1002;

select * from Assign_Query_CAR_SALES ;
```

```
--delete
delete from Assign_Query_CAR_SALES
where SupplierID =1004;
```

```
--select *
from Assign_Query_CAR_SALES ;
```

```
--RENAME
alter table Assign_Query_CAR_SALES
RENAME COLUMN SupplierID TO Supplier__ID

EXEC SP_RENAME 'Assign_Query_CAR_SALES ', 'Assign_Query_CAR_SALES '
```

Results 1

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear
1	6 Carioca Trail	shreya	159-34-3380	3,598	Mercury	Sable	Khaki	1,99
2	1,003 8 Carioca Trail	Vidoo	159-34-3380	3,598	Mercury	Sable	Khaki	1,99

Save Cancel Script IST en Writable Smart Insert 200 2 Rows: 1 2 row(s) fetched - 90ms, on 2022-10-09 at 20:12:15 83: 1 [104] Sel: 104 | 4 8:12 PM 10/9/2022

RENAME

DBeaver 22.2.0 - <shreya> DDL,DMLsql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

Auto_ shreya dbo@shreya

```
--update
update Assign_Query_CAR_SALES
set SupplierName = 'shreya'
where SupplierID =1002;

select * from Assign_Query_CAR_SALES ;

---delete
delete from Assign_Query_CAR_SALES
where SupplierID =1004;

select * from Assign_Query_CAR_SALES ;

--RENAME
alter table Assign_Query_CAR_SALES
RENAME COLUMN SupplierID TO Supplier_ID

EXEC SP_RENAME 'Assign_Query_CAR_SALES ', 'Assign_Query_CAR_SALES ';
```

--TRUNCATE
TRUNCATE TABLE Assign_Query_CAR_SALES ;
select * from Assign_Query_CAR_SALES ;

Project - General

Name DataSource

Bookmarks

Diagrams

Scripts

Statistics 1

Name	Value
Updated Rows	-1
	EXEC SP_RENAME 'Assign_Query_CAR_SALES ', 'Assign_Query_CAR_SALES '
Finish time	Sun Oct 09 20:14:10 IST 2022

Save Cancel Script 200 1 Rows: 1 0 row(s) fetched - 34ms, on 2022-10-09 at 20:14:10 IST | en Writable Smart Insert 91: 1 [71] Sel: 71 | 2

71°F Raining now 8:14 PM 10/9/2022

TRUNCATE

DBeaver 22.2.0 - <shreya> DDL,DMLsql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

Auto_ shreya dbo@shreya

```
--update
update Assign_Query_CAR_SALES
set SupplierName = 'shreya'
where SupplierID =1002;

select * from Assign_Query_CAR_SALES ;

---delete
delete from Assign_Query_CAR_SALES
where SupplierID =1004;

select * from Assign_Query_CAR_SALES ;

--RENAME
alter table Assign_Query_CAR_SALES
RENAME COLUMN SupplierID TO Supplier_ID

EXEC SP_RENAME 'Assign_Query_CAR_SALES ', 'Assign_Query_CAR_SALES ';
```

--TRUNCATE
TRUNCATE TABLE Assign_Query_CAR_SALES ;
select * from Assign_Query_CAR_SALES ;

--DROP

Results 1

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear

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

Grid 0 Rows: 0 No data- 145ms, on 2022-10-09 at 20:14:52 IST | en Writable Smart Insert 97: 39 [81] Sel: 81 | 3

72°F Rain to stop 8:15 PM 10/9/2022

DROP

The screenshot shows the DBBeaver interface with a database connection to 'shreya'. In the left sidebar, under 'shreya', 'Procedures' is selected. The main pane displays a SQL script:

```
*<dlthe> queries... *<shreya> Script... *<shreya> SSIS.sql *<shreya> Viewss... Cinema_ASSIGN.da... <shreya> IISC.sql *<shreya> DDL.DML...  
--  
set SupplierName = 'shreya'  
where SupplierID =1002;  
  
select * from Assign_Query_CAR_SALES ;  
  
---delete  
delete from Assign_Query_CAR_SALES  
where SupplierID =1004;  
  
select * from Assign_Query_CAR_SALES ;  
  
---RENAME  
alter table Assign_Query_CAR_SALES  
RENAME COLUMN SupplierID TO Supplier_ID  
  
EXEC SP_RENAME 'Assign_Query_CAR_SALES ', 'Assign_Query_CAR_SALES '  
  
---TRUNCATE  
TRUNCATE TABLE Assign_Query_CAR_SALES ;  
  
select * from Assign_Query_CAR_SALES ;  
  
---DROP  
DROP TABLE Assign_Query_CAR_SALES;
```

The status bar at the bottom shows '8:15 PM 10/9/2022'.

Module 2 SSIS:

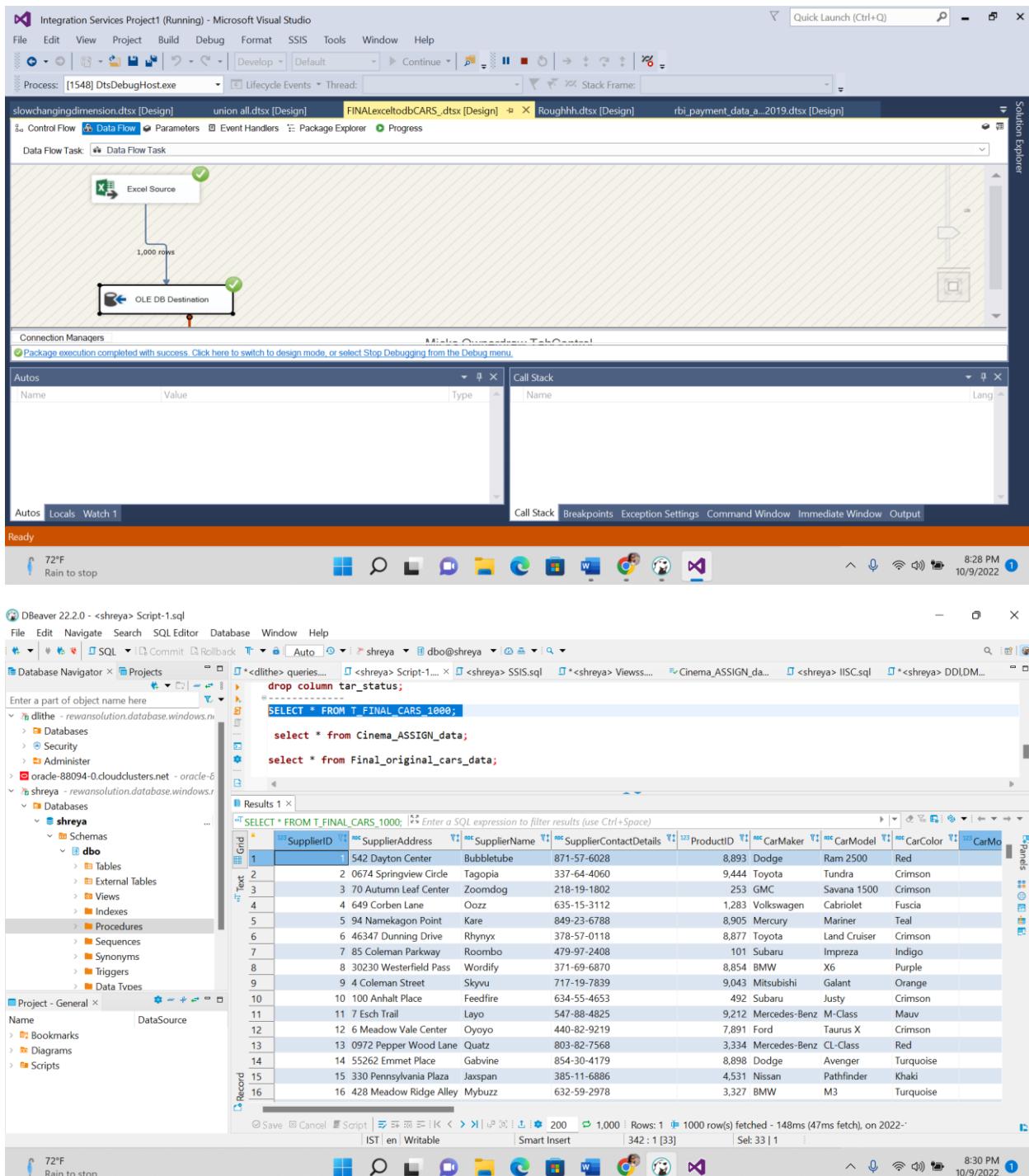
Entry criteria: Transactions tables created in Module 1, task 2

1. Make connection to different data source (Oracle DB, Flatfile, SQL Server)
2. Extract
3. Transform
4. Load to new target system - SQL Server

1.EXCEL TO DB

The screenshot shows an Excel spreadsheet titled 'FINAL_1000_CARS'. The table has columns: Q (EmailAddress), R (City), S (Country), T (State), U (CustomerAddress), V (OrderDate), W (OrderID), X (ShipDate), and Y (ShipMode). The data includes various cities like Bangalore, Mysore, Chicago, Orlando, Detroit, Atlanta, Boston, Charleston, Phoenix, San Jose, Newark, Syracuse, Charleston, Topeka, Washington, Chattanooga, Dayton, Appleton, Murfreesboro, Annapolis, and Bloomington, along with their respective countries (India, US, etc.) and states (Alaska, Minnesota, Illinois, Florida, Michigan, Georgia, Massachusetts, West Virginia, Arizona, California, New Jersey, New York, West Virginia, Kansas, District of Columbia, Tennessee, Ohio, Wisconsin, Tennessee, Maryland, Indiana).

Q	R	S	T	U	V	W	X	Y
1 EmailAddress								
2 lhhinsche0@comcast.net	Bangalore	India	US	Alaska	1 Independence Circle	43450	0268-6694	43538
3 amanuel1@usnews.com	Mysore	India	US	Minnesota	209 Lerdahl Alley	43509	0699-5728	43530
4 aiveighell2@nature.com	Chicago	United States	US	Illinois	1803 Evergreen Trail	43328	42043-251	43485
5 fgunston3@mozilla.org	Orlando	United States	US	Florida	9682 Warbler Terrace	43518	57520-1044	43540
6 afilipi4@webs.com	Detroit	United States	US	Michigan	5751 Tony Avenue	43349	36987-3308	43494
7 wpiche5@deviantart.com	Atlanta	United States	US	Georgia	26066 Valley Edge Parkway	43328	11822-0580	43548
8 falbert6@google.com.br	Boston	United States	US	Massachusetts	6079 Rowland Pass	43540	24909-111	43489
9 ovittman7@nps.gov	Charleston	United States	US	West Virginia	0 Sach's Court	43281	49527-013	43466
10 kcalvey8@google.cn	Phoenix	United States	US	Arizona	0 Maywood Center	43408	52125-325	43481
11 alandsborough9@chron.com	San Jose	United States	US	California	04 Knutson Drive	43428	45802-283	43520
12 ddodgshuna@imgur.com	Newark	United States	US	New Jersey	8104 Colorado Avenue	43608	50563-202	43553
13 bdelvess@zimbio.com	Syracuse	United States	US	New York	7265 Buell Trail	43436	60512-1035	43605
14 ldavellic@blog.com	Charleston	United States	US	West Virginia	26 Mitchell Center	43633	54868-6162	43486
15 dhazelgroved@theatlantic.com	Topeka	United States	US	Kansas	25 Dapin Lane	43580	57955-8315	43602
16 cwreakese@mtv.com	Washington	United States	US	District of Columbia	9 Nelson Parkway	43324	58118-0404	43472
17 emanville@shareasale.com	Chattanooga	United States	US	Tennessee	98287 Tennessee Place	43437	65862-082	43617
18 mzanettig@dropbox.com	Dayton	United States	US	Ohio	68 Prairieview Way	43318	50169-0005	43517
19 jproudmanh@independent.co.uk	Appleton	United States	US	Wisconsin	064 Everett Circle	43570	49404-204	43605
20 ldundini@hc360.com	Murfreesboro	United States	US	Tennessee	8972 Rieder Terrace	43619	0363-0459	43585
21 tduckj@mapquest.com	Annapolis	United States	US	Maryland	90 Mendota Park	43416	57955-2282	43548
22 bcathelk@parineedalle.it	Bloomington	United States	US	Indiana	618 Bunting Court	43437	28107-003	43616



2. EXCEL TO FLAT FILE USING ANOTHER DATA SOURCE

AutoSave off CinemaTicket_Ref_Entertainment - Protected View Search (Alt+Q) Shreya V sv

File Home Insert Page Layout Formulas Data Review View Help

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

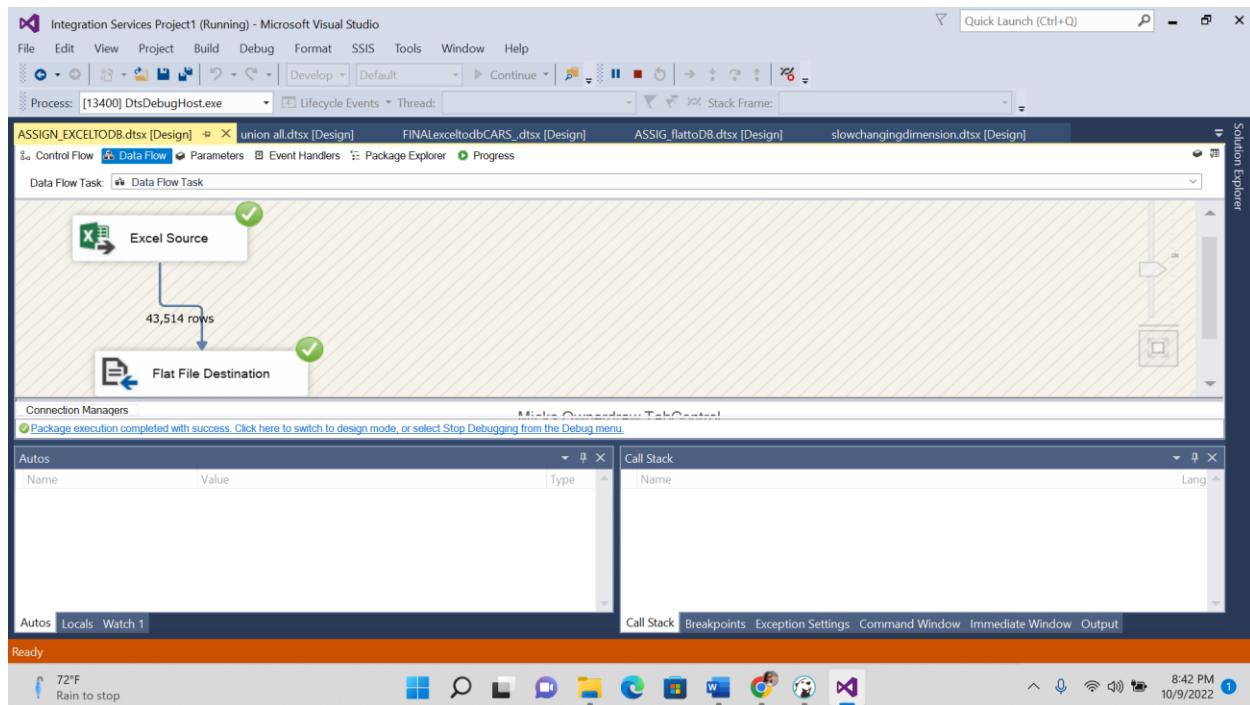
A1 Film_Type

Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket_use	capacity	date	month	quarter	day
Romance	1492	304	3900000	26	0	4	4.26	150000	26	610	43225	5	2	5
Romance	1492	352	3360000	42	0	5	8.08	80000	42	520	43225	5	2	5
Romance	1492	489	2560000	32	0	4	20	80000	32	160	43225	5	2	5
Romance	1492	429	1200000	12	0	1	11.01	100000	12	109	43225	5	2	5
Romance	1492	524	1200000	15	0	3	16.67	80000	15	90	43225	5	2	5
Romance	1492	71	1050000	7	0	3	0.98	150000	7	714	43225	5	2	5
Romance	1492	163	1020000	10	0	3	7.69	102000	10	130	43225	5	2	5
Romance	1492	450	750000	5	0	3	1.57	150000	5	318	43225	5	2	5
Romance	1492	51	750000	11	0	2	0.95	68181.81818	11	1158	43225	5	2	5
Romance	1492	522	600000	4	0	3	1.55	150000	4	258	43225	5	2	5
Romance	1492	43	480000	6	0	3	0.44	80000	6	1364	43225	5	2	5
Romance	1492	529	480000	4	0	3	2.96	120000	4	135	43225	5	2	5
Romance	1492	82	400000	5	0	6	0.53	80000	5	943	43225	5	2	5
Romance	1492	344	300000	2	0	3	0.25	150000	2	800	43225	5	2	5
Romance	1492	73	240000	2	0	1	2.04	120000	2	98	43225	5	2	5
Romance	1492	304	16500000	112	0	4	18.33	147321.4286	112	611	43224	5	2	4
Romance	1492	352	13950000	93	0	5	10.57	150000	93	880	43224	5	2	4
Romance	1492	344	10200000	68	0	3	8.54	150000	68	796	43224	5	2	4
Romance	1492	71	6600000	44	0	3	6.14	150000	44	717	43224	5	2	4
Romance	1492	163	3360000	31	0	3	24.8	108387.0968	31	125	43224	5	2	4
Romance	1492	522	3000000	20	0	3	7.75	150000	20	258	43224	5	2	4
Romance	1492	485	2400000	16	0	3	11.59	150000	16	138	43224	5	2	4
Romance	1492	524	1800000	12	0	3	13.33	150000	12	90	43224	5	2	4
Romance	1492	518	1680000	14	1	3	8.48	120000	13	165	43224	5	2	4
Romance	1492	51	1400000	17	0	1	2.93	82352.94118	17	580	43224	5	2	4

CinemaTicket_Ref_Entertainment

Ready

72°F Rain to stop 8:35 PM 10/9/2022



CINEMA_ORIGINAL_CINEMA - Notepad

File Edit View

```
Romance,1492,304,3900000,26,0,4,4,2599999999999999,150000,26,610,43225,5,2,5
Romance,1492,352,3360000,42,0,5,8,0800000000000001,80000,42,520,43225,5,2,5
Romance,1492,489,2560000,32,0,4,20,80000,32,160,43225,5,2,5
Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43225,5,2,5
Romance,1492,524,1200000,15,0,3,16,67000000000002,80000,15,98,43225,5,2,5
Romance,1492,71,1050000,7,0,3,0,9799999999999998,150000,7,714,43225,5,2,5
Romance,1492,163,1820000,10,0,3,7,69000000000004,162000,10,138,43225,5,2,5
Romance,1492,450,750000,5,0,3,1,57000000000001,150000,5,318,43225,5,2,5
Romance,1492,51,750000,11,0,2,0,9499999999999996,68181,818180000002,11,1158,43225,5,2,5
Romance,1492,52,600000,4,0,3,1,55,150000,4,258,43225,5,2,5
Romance,1492,43,480000,6,0,3,0,44,80000,6,1364,43225,5,2,5
Romance,1492,529,480000,4,0,3,2,96,120000,4,135,43225,5,2,5
Romance,1492,82,400000,5,0,6,0,5300000000000003,80000,5,943,43225,5,2,5
Romance,1492,344,300000,2,0,3,0,25,150000,2,800,43225,5,2,5
Romance,1492,73,240000,2,0,1,2,04,120000,2,98,43225,5,2,5
Romance,1492,304,1650000,112,0,4,18,3299999999999998,147321,428600000001,112,611,43224,5,2,4
Romance,1492,352,1395000,93,0,5,18,57,150000,93,880,43224,5,2,4
Romance,1492,344,1820000,68,0,3,8,5399999999999991,150000,68,796,43224,5,2,4
Romance,1492,71,6600000,44,0,3,6,1399999999999997,150000,44,717,43224,5,2,4
Romance,1492,163,3360000,31,0,3,24,80000000000001,108387,0968,31,125,43224,5,2,4
Romance,1492,522,3000000,20,0,3,7,75,150000,20,258,43224,5,2,4
Romance,1492,485,2400000,16,0,3,11,59,150000,16,138,43224,5,2,4
Romance,1492,51,524,1800000,12,0,3,13,33,150000,12,98,43224,5,2,4
Romance,1492,518,1680000,14,1,3,8,4800000000000004,120000,13,165,43224,5,2,4
Romance,1492,51,1400000,17,0,1,1,9300000000000002,82352,941179999994,17,580,43224,5,2,4
Romance,1492,448,1350000,9,0,2,3700000000000001,150000,9,380,43224,5,2,4
Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43224,5,2,4
Romance,1492,450,1850000,7,0,2,3,2999999999999998,150000,7,212,43224,5,2,4
Romance,1492,489,900000,6,0,3,5,150000,6,120,43224,5,2,4
Romance,1492,43,880000,11,0,3,0,8100000000000005,80000,11,1358,43224,5,2,4
Romance,1492,431,720000,6,0,2,11,5399999999999999,120000,6,52,43224,5,2,4
Romance,1492,529,600000,5,0,2,5,5599999999999996,120000,5,98,43224,5,2,4
Romance,1492,82,160000,2,0,6,0,2099999999999999,80000,2,952,43224,5,2,4
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

72°F Rain to stop 8:42 PM 10/9/2022

3.FLAT FILE TO DB

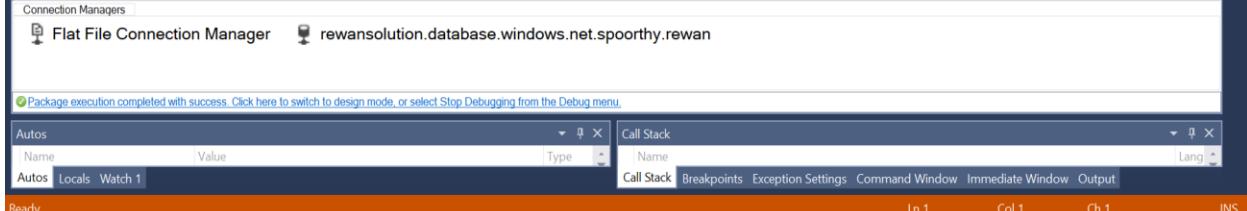
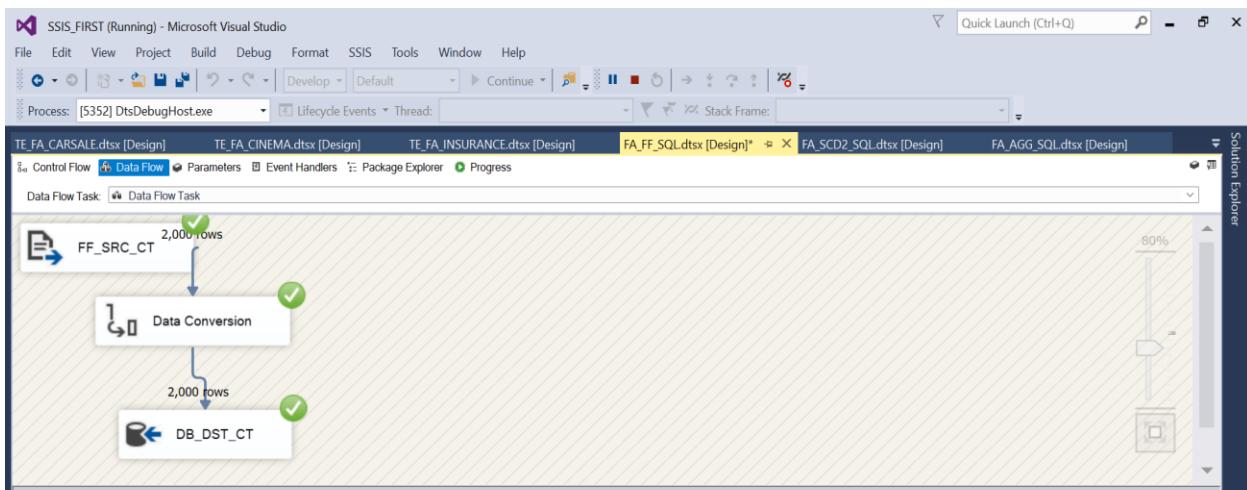
CINEMA_ORIGINAL_CINEMA - Notepad

File Edit View

```
Romance,1492,304,3900000,26,0,4,4,2599999999999998,150000,26,610,43225,5,2,5
Romance,1492,352,3360000,42,0,5,8,0800000000000001,80000,42,520,43225,5,2,5
Romance,1492,489,2560000,32,0,4,20,80000,32,160,43225,5,2,5
Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43225,5,2,5
Romance,1492,524,1200000,15,0,3,16,67000000000002,80000,15,98,43225,5,2,5
Romance,1492,71,1050000,7,0,3,0,9799999999999998,150000,7,714,43225,5,2,5
Romance,1492,163,3360000,31,0,3,24,80000000000001,108387,0968,31,125,43224,5,2,4
Romance,1492,522,3000000,20,0,3,7,75,150000,20,258,43224,5,2,4
Romance,1492,485,2400000,16,0,3,11,59,150000,16,138,43224,5,2,4
Romance,1492,51,524,1800000,12,0,3,13,33,150000,12,98,43224,5,2,4
Romance,1492,518,1680000,14,1,3,8,4800000000000004,120000,13,165,43224,5,2,4
Romance,1492,51,1400000,17,0,1,1,9300000000000002,82352,941179999994,17,580,43224,5,2,4
Romance,1492,448,1350000,9,0,2,3700000000000001,150000,9,380,43224,5,2,4
Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43224,5,2,4
Romance,1492,450,1850000,7,0,2,3,2999999999999998,150000,7,212,43224,5,2,4
Romance,1492,489,900000,6,0,3,5,150000,6,120,43224,5,2,4
Romance,1492,43,880000,11,0,3,0,8100000000000005,80000,11,1358,43224,5,2,4
Romance,1492,431,720000,6,0,2,11,5399999999999999,120000,6,52,43224,5,2,4
Romance,1492,529,600000,5,0,2,5,5599999999999996,120000,5,98,43224,5,2,4
Romance,1492,82,160000,2,0,6,0,2099999999999999,80000,2,952,43224,5,2,4
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

72°F Rain to stop 8:42 PM 10/9/2022



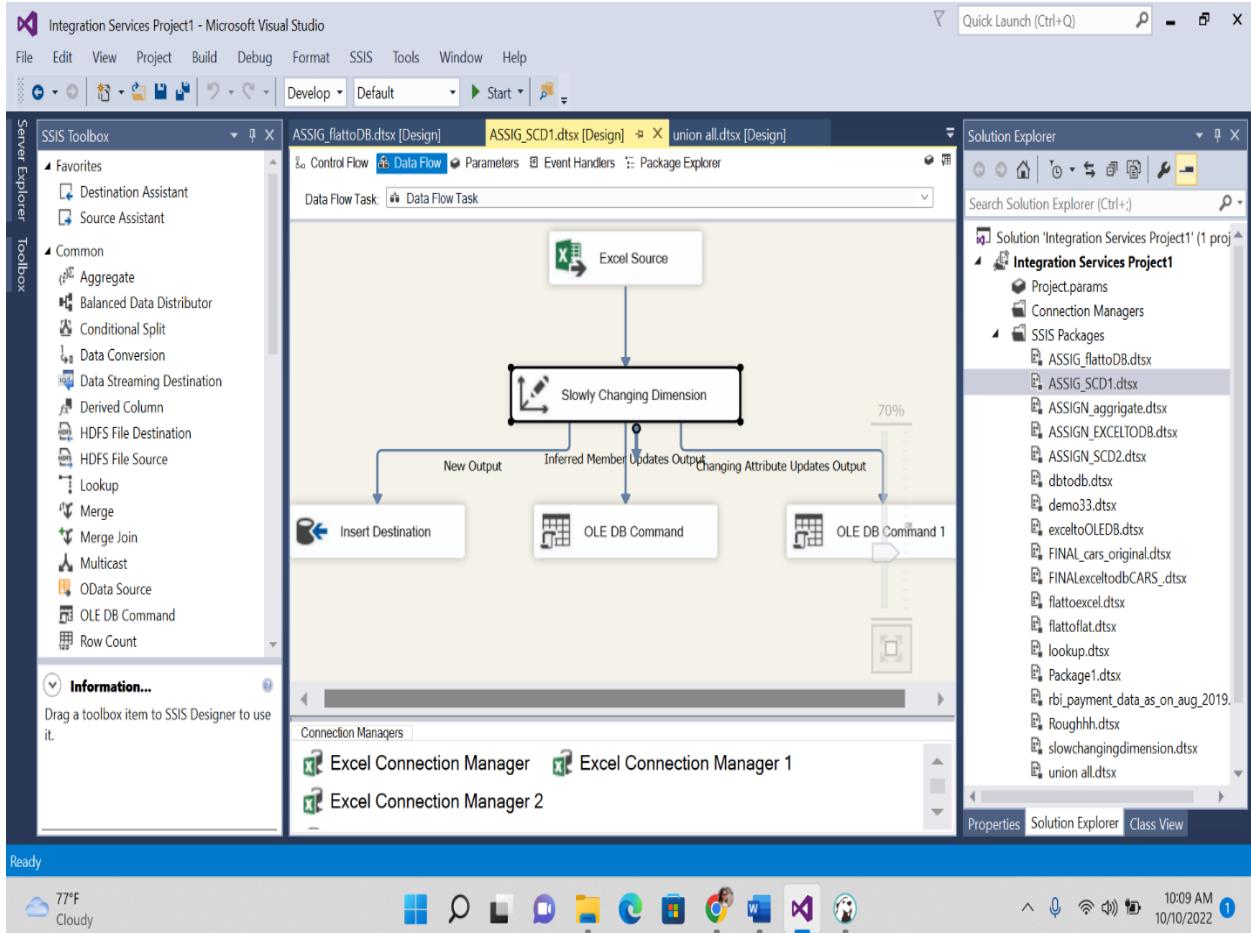
5. Perform SCD 1; SCD2 dimension table modelling.

SCD1

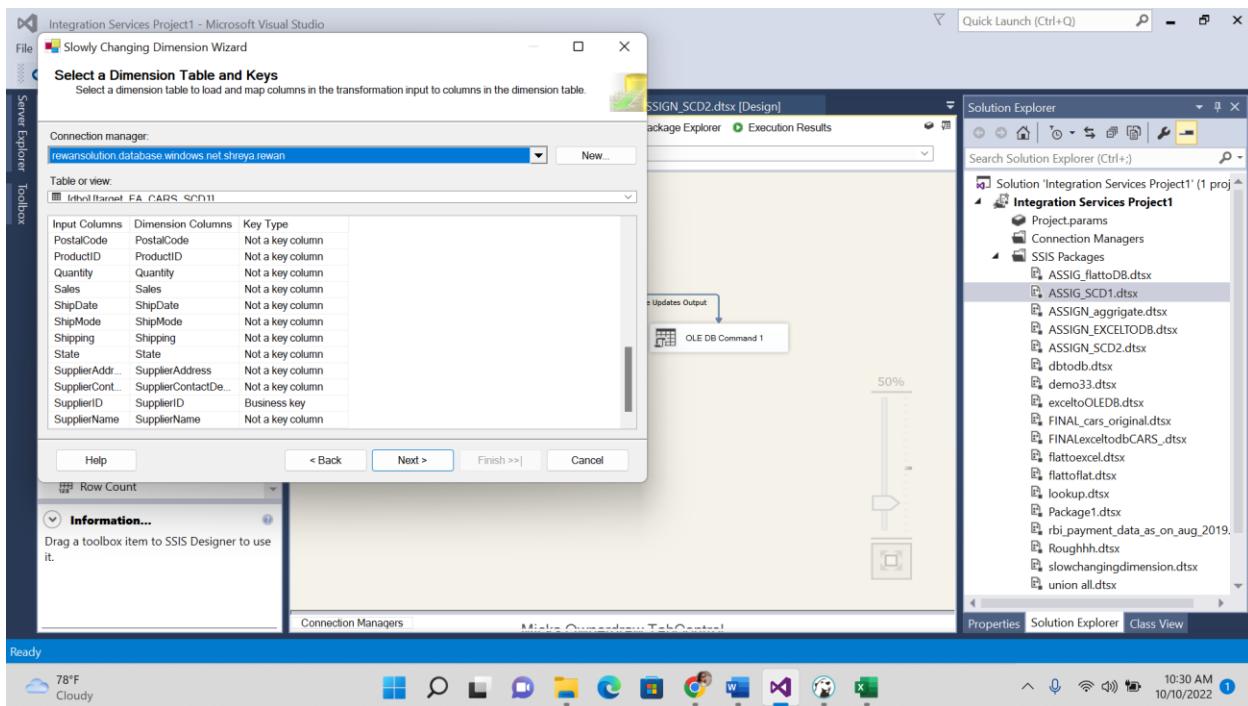
Source table- CarSalesShipmentDatasource_original

	A	B	C	D	E	F	G	H	I	J	K
1	SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID
2	1	542 Dayton Center	Bubbletube	871-57-6028	8893	Dodge	Ram 2500	Goldenrod	2007	521963.45	60760-224
3	2	0674 Springview Circle	Tagopia	337-64-4060	9444	Toyota	Tundra	Crimson	2010	672222.04	67457-594
4	3	70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2011	504465.72	58411-135
5	4	649 Corben Lane	Oozz	635-15-3112	1283	Volkswagen	Cabriolet	Fuscia	1990	646077.11	0591-5307
6	5	94 Nakekagon Point	Kare	849-23-6788	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189
7	6	46347 Dunning Drive	Rhynyx	378-57-0118	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001
8	7	85 Coleman Parkway	Roombo	479-97-2408	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328
9	8	30230 Westerfield Pass	Wordify	371-69-6870	8854	BMW	X6	Purple	2013	528353.8	54162-018
10	9	4 Coleman Street	Skyvu	717-19-7839	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060
11	10	100 Anhalt Place	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732
12	11	7 Esch Trail	Layo	547-88-4825	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015
13	12	6 Meadow Vale Center	Oyoyo	440-82-9219	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101
14	13	0972 Pepper Wood Lane	Quatz	803-82-7568	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119
15	14	55262 Emmet Place	Gabvine	854-30-4179	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504
16	15	330 Pennsylvania Plaza	Jaxspan	385-11-6886	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059
17	16	428 Meadow Ridge Alley	Mybuzz	632-59-2978	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728
18	17	26 Stuart Court	Gabcube	236-54-6347	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672
19	18	73 Beifuss Road	Lazz	329-80-2609	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215
20	19	9 Lukken Way	Buzzdog	351-97-3917	2373	Toyota	Corolla	Aquamarine	2004	563380.63	37000-352
21	20	411 Coleman Circle	Yodel	298-99-8758	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606
22	21	88 Katie Way	Innoiam	188-55-0225	1459	Mercedes-Benz	SL-Class	Turauoise	2009	526717.03	49693-1801

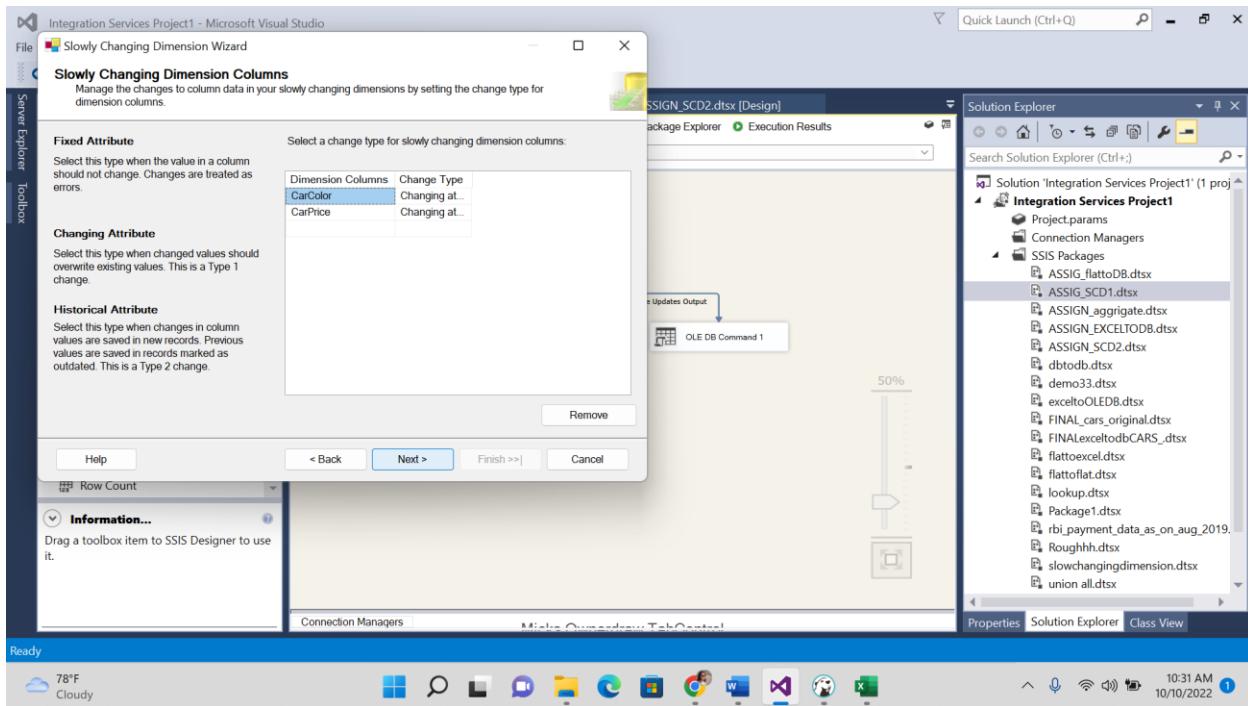
Performing SCD1



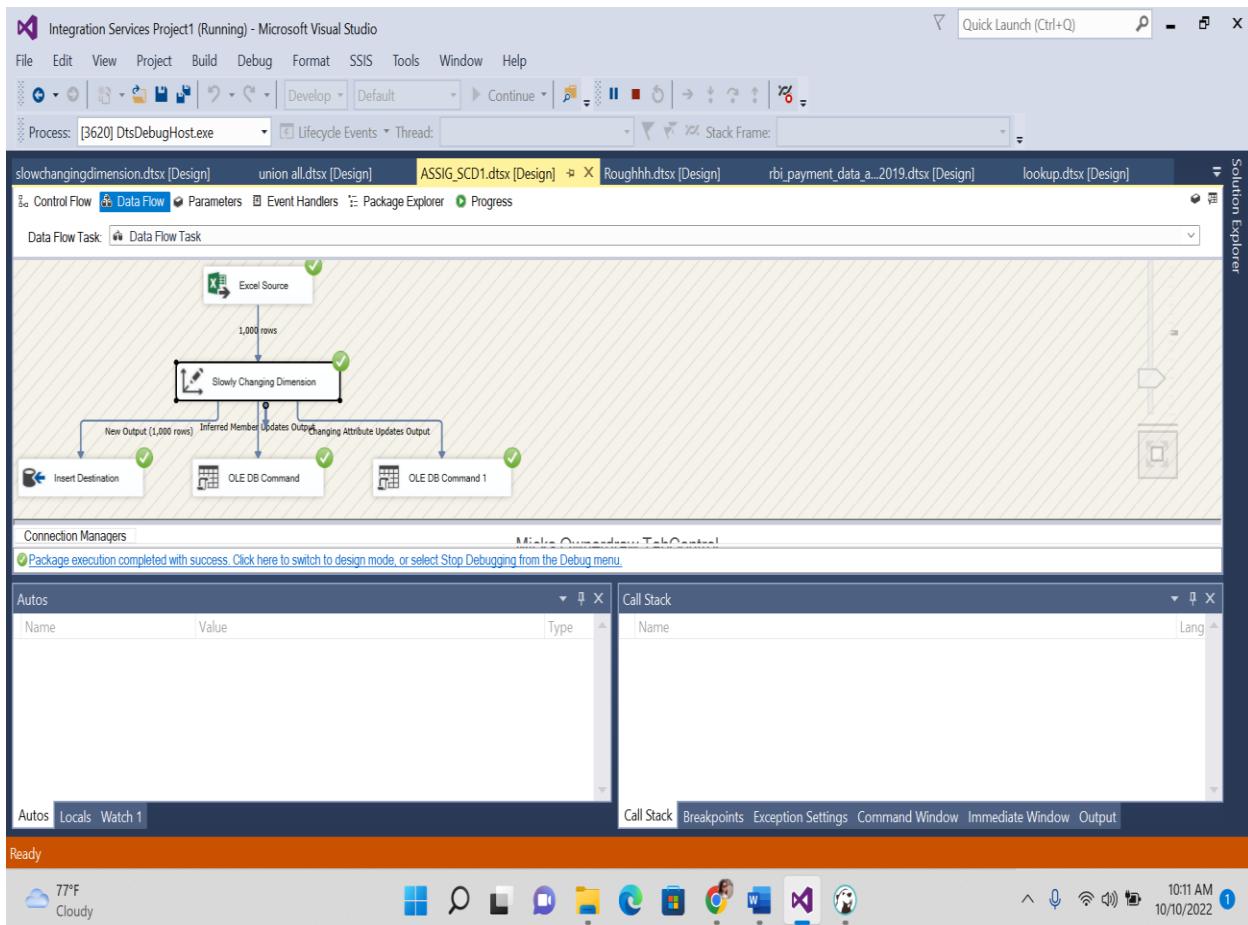
Setting the values



Setting CarColor and CarPrice attribute as changing attributes.



Executing the package.



DB output.

DBeaver 22.0.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto shreya dbo:shreya

Database Navigator Projects <dlithe> queries.sql <shreya> Script-1.... <shreya> SSIS.sql <shreya> Viewss.s... Cinema_ASSIGN_data <shreya> IISC.sql <shreya> DDL/DML...

Enter a part of object name here

Results 1 x

Grid Text

	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID
1	Bubbletube	871-57-6028	8,893	Dodge	Ram 2500	Red	2,007	343,434.88	60760-224
2	Tagopia	337-64-4060	9,444	Toyota	Tundra	Crimson	2,010	672,222.04	67457-594
3	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2,011	504,465.72	58411-135
4	Ozz	635-15-3112	1,283	Volkswagen	Cabriolet	Fuscia	1,990	646,077.11	0591-5307
5	Kare	849-23-6788	8,905	Mercury	Mariner	Teal	2,009	699,890.24	51655-189
6	Rhynyx	378-57-0118	8,877	Toyota	Land Cruiser	Crimson	2,005	694,373.94	65811-0001
7	Roombro	479-97-2408	101	Subaru	Impreza	Indigo	1,999	546,977.55	31722-328
8	Wordify	371-69-6870	8,854	BMW	X6	Purple	2,013	528,353.8	54162-018
9	Skyvu	717-19-7839	9,043	Mitsubishi	Galant	Orange	2,011	706,964.35	44911-0060
10	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1,988	798,573.59	54868-5732
11	Layo	547-88-4825	9,212	Mercedes-Benz	M-Class	Mauv	2,002	722,114.57	0955-1015
12	Oyoyo	440-82-9219	7,891	Ford	Taurus X	Crimson	2,008	761,182.85	54838-101
13	Quatz	803-82-7568	3,334	Mercedes-Benz	CL-Class	Red	2,011	568,015.89	49825-119
14	Galvine	854-30-4179	8,898	Dodge	Avenger	Turquoise	2,008	646,591.02	54799-504
15	Jaxspan	385-11-6886	4,531	Nissan	Pathfinder	Khaki	2,002	670,304.84	43742-0059
16	Mybuzz	632-59-2978	3,327	BMW	M3	Turquoise	2,009	728,986.85	68788-9728
17	Gabcube	236-54-6347	7,975	Mercedes-Benz	R-Class	Puce	2,009	665,854.24	0228-2672
18	Lazz	329-80-2609	7,029	Honda	FCX Clarity	Yellow	2,012	707,705.42	21695-215
19	Buzzdog	351-97-3917	2,373	Toyota	Corolla	Aquamarine	2,004	563,380.63	37000-352
20	Yodel	298-99-8758	5,839	Ford	Tempo	Turquoise	1,988	686,028.43	49288-0606
21	Innojam	188-55-0225	1,459	Mercedes-Benz	SL-Class	Turquoise	2,009	526,717.03	49693-1801
22	Skidoo	192-42-0999	8,464	Chevrolet	Monte Carlo	Aquamarine	1,996	569,743.98	23155-141
23	Mynte	323-91-4731	7,705	Bentley	Continental Flyr	Fuscia	2,009	649,917	65517-0027

Save Cancel Script < < > >> 200 200+ Rows: 1 200 row(s) fetched - 317ms (76ms fetch), on 2022-10-10 10:11 AM 10/10/2022

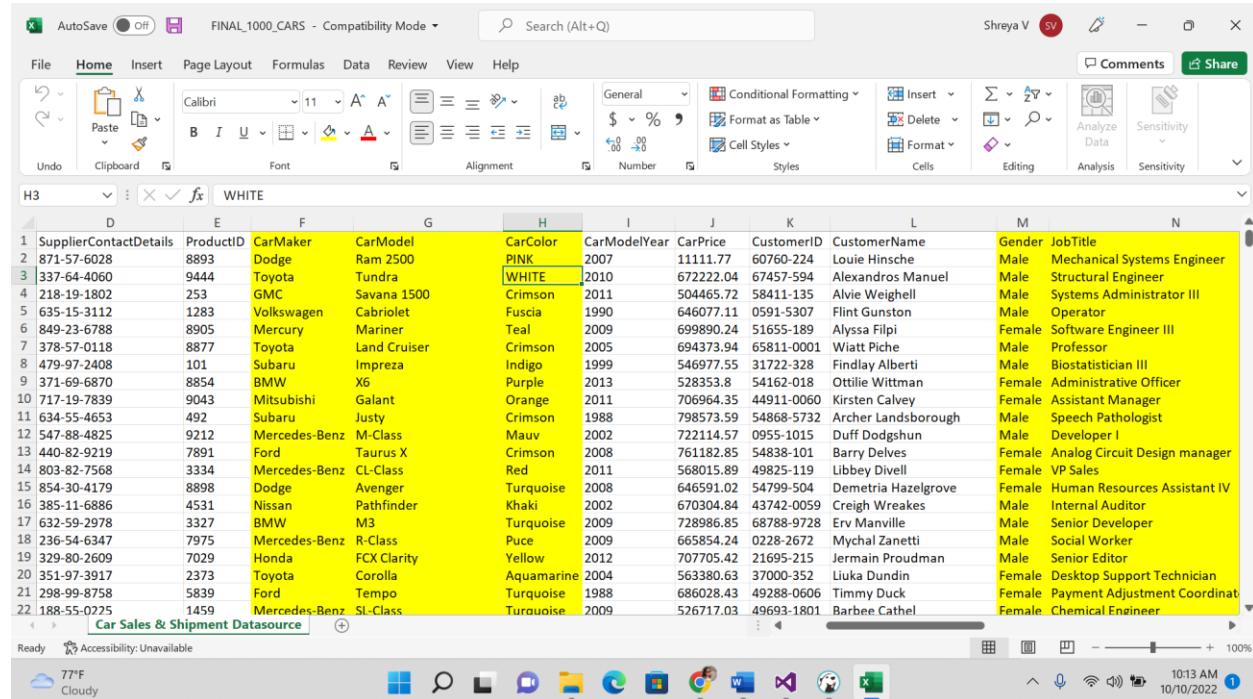
IST en Writable Smart Insert 10 : 36 : 132 Set 0 | 0

Cloudy 77°F 10:11 AM 10/10/2022

CHANGING THE VALUES OF

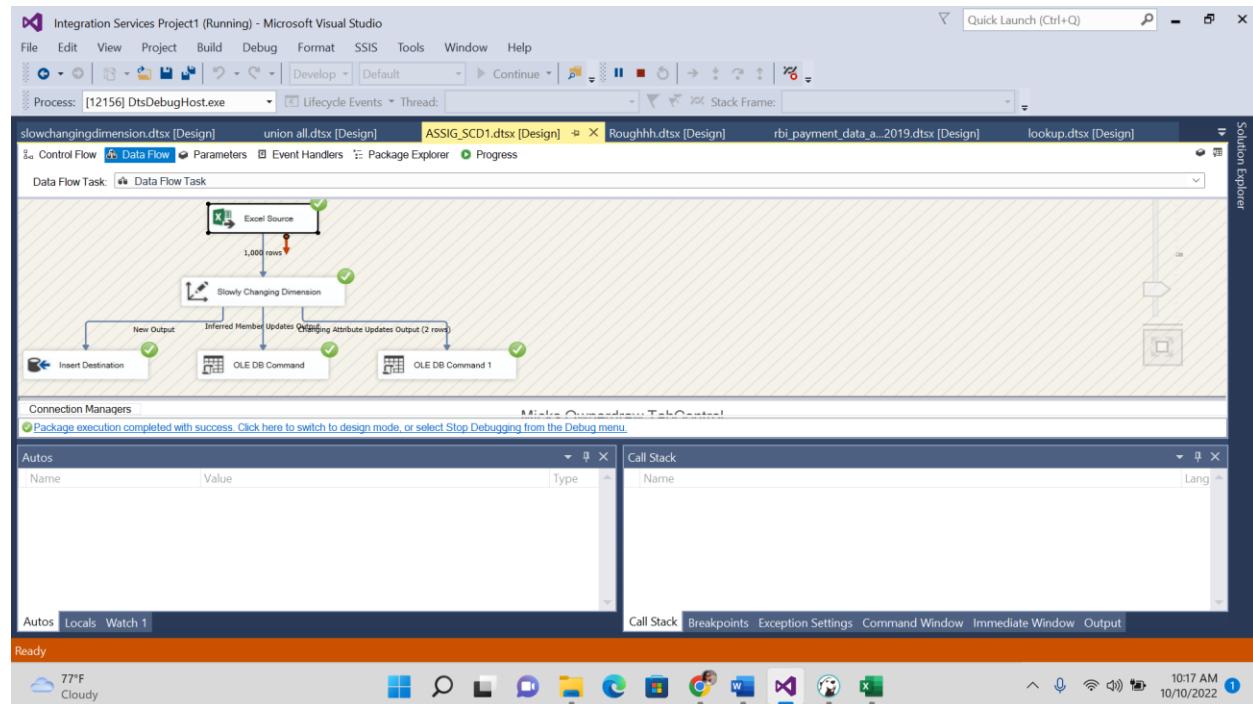
CAR COLOR =PINK AND CARPRICE = 11111.77 WHERE SUPPLIER_ID=1,

CAR COLOR =WHITE WHERE SUPPLIER_ID=2 IN SOURCE FILE.



	SupplierContactDetails	ProductId	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle
1	SupplierContactDetails	8893	Dodge	Ram 2500	PINK	2007	11111.77	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer
2	871-57-6028	9444	Toyota	Tundra	WHITE	2010	672222.04	67457-594	Alexandros Manuel	Male	Structural Engineer
3	337-64-4060	253	GMC	Savana 1500	Crimson	2011	504465.72	58411-135	Alvie Weighell	Male	Systems Administrator III
4	218-19-1802	1283	Volkswagen	Cabriolet	Fuscia	1990	646077.11	0591-5307	Flint Gunston	Male	Operator
5	635-15-3112	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189	Alyssa Filpi	Female	Software Engineer III
6	849-23-6788	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001	Witt Piche	Male	Professor
7	378-57-0118	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328	Findlay Alberti	Male	Biostatistician III
8	479-97-2408	8854	BMW	X6	Purple	2013	528353.8	54162-018	Ottlie Wittman	Female	Administrative Officer
9	371-69-6870	9043	Mitsubishi	Galant	Orange	2011	706964.39	44911-0060	Kirsten Calvey	Female	Assistant Manager
10	717-19-7839	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732	Archer Landsborough	Male	Speech Pathologist
11	634-55-4653	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015	Duff Dodgshun	Male	Developer I
12	547-88-4825	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101	Barry Delves	Female	Analog Circuit Design manager
13	440-82-9219	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119	Libbey Divell	Female	VP Sales
14	803-82-7568	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504	Demetria Hazelgrove	Female	Human Resources Assistant IV
15	854-30-4179	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059	Creigh Wreakes	Male	Internal Auditor
16	385-11-6886	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728	Erv Manville	Male	Senior Developer
17	632-59-2978	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672	Mychal Zanetti	Male	Social Worker
18	236-54-6347	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215	Jermain Proudman	Male	Senior Editor
19	329-80-2609	2373	Toyota	Corolla	Aquamarine	2004	563380.63	37000-352	Liuka Dundin	Female	Desktop Support Technician
20	351-97-3917	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606	Timmy Duck	Female	Payment Adjustment Coordinator
21	298-99-8758	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801	Barbee Cathel	Female	Chemical Engineer

Performing SCD1.



OUTPUT IN DB.

TARGET FILE = target_FA_CARS_SCD1

DBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects > shreya > shreya > FA_CARS_SCD1

Enter a part of object name here

Results 1 >

Text

Grid

select * from target_FA_CARS_SCD1 Enter a SQL expression to filter results (use Ctrl+Space)

	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID
1	Bubbletube	871-57-6028	8,893	Dodge	Ram 2500	PINK	2,007	11,111.77	60760-224
2	Tagopia	337-64-4060	9,444	Toyota	Tundra	WHITE	2,010	672,222.04	67457-594
3	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2,011	504,465.72	58411-135
4	Oozz	635-15-3112	1,283	Volkswagen	Cabriolet	Fuscia	1,990	646,077.11	0591-5307
5	Kare	849-23-6788	8,905	Mercury	Mariner	Teal	2,009	699,890.24	51655-189
6	Rhynyx	378-57-0118	8,877	Toyota	Land Cruiser	Crimson	2,005	694,373.94	65811-0001
7	Roomb0	479-97-2408	101	Subaru	Impreza	Indigo	1,999	546,977.55	31722-328
8	Wordify	371-69-6870	8,854	BMW	X6	Purple	2,013	528,353.8	54162-018
9	Skyvu	717-19-7839	9,043	Mitsubishi	Galant	Orange	2,011	706,964.35	44911-0060
10	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1,988	798,573.50	54868-5732
11	Layo	547-88-4825	9,212	Mercedes-Benz	M-Class	Mauv	2,002	722,114.57	0955-1015
12	Oyoyo	440-82-9219	7,891	Ford	Taurus X	Crimson	2,008	761,182.85	54838-101
13	Quatz	803-82-7568	3,334	Mercedes-Benz	CL-Class	Red	2,011	568,015.89	49825-119
14	Gabvine	854-30-4179	8,898	Dodge	Avenger	Turquoise	2,008	646,591.02	54799-504
15	Jaxspan	385-11-6886	4,531	Nissan	Pathfinder	Khaki	2,002	670,304.84	43742-0059
16	Mybuzz	632-59-2978	3,327	BMW	M3	Turquoise	2,009	728,986.65	68788-9728
17	Gabcube	236-54-6347	7,975	Mercedes-Benz	R-Class	Puce	2,009	665,854.24	0228-2672
18	Lazz	329-80-2609	7,029	Honda	FCX Clarity	Yellow	2,012	707,705.42	21695-215
19	Buzzdog	351-97-3917	2,373	Toyota	Corolla	Aquamarine	2,004	563,380.63	37000-352
20	Yodel	298-99-8758	5,839	Ford	Tempo	Turquoise	1,988	686,028.43	49288-0606
21	Innojam	188-55-0225	1,459	Mercedes-Benz	SL-Class	Turquoise	2,009	526,717.03	49693-1801
22	Skidoo	192-42-0999	8,464	Chevrolet	Monte Carlo	Aquamarine	1,996	569,743.98	23155-141
23	Mynte	323-91-4731	7,705	Bentley	Continental Flyr Fuscia	2,009	649,917	65517-0027	

Save Cancel Script | K L M N O P Q R S T U V W X Y Z | IST en Writable | Smart Insert | 10 : 36 : 132 | Set 0 | 0 |

Cloudy 77°F 10:18 AM 10/10/2022

SD2

Source file = FINAL_1000_CARS

FINAL_1000_CARS - Compatibility Mode

File Home Insert Page Layout Formulas Data Review View Help

Comments Share

J14 568015.89

	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle
1											
2	871-57-6028	8893	Dodge	Ram 2500	PINK	2007	11111.77	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer
3	337-64-4060	9444	Toyota	Tundra	WHITE	2010	672222.04	67457-594	Alexandros Manuel	Male	Structural Engineer
4	218-19-1802	253	GMC	Savana 1500	Crimson	2011	504465.72	58411-135	Alvie Weighell	Male	Systems Administrator III
5	635-15-3112	1283	Volkswagen	Cabriolet	Fuscia	1990	646077.11	0591-5307	Flint Gunston	Male	Operator
6	849-23-6788	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189	Alyssa Filpi	Female	Software Engineer III
7	378-57-0118	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001	Witt Piche	Male	Professor
8	479-97-2408	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328	Findlay Alberti	Male	Biostatistician III
9	371-69-6870	8854	BMW	X6	Purple	2013	528353.8	54162-018	Ottolie Wittman	Female	Administrative Officer
10	717-19-7839	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060	Kirsten Calvey	Female	Assistant Manager
11	634-55-4653	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732	Archer Landsborough	Male	Speech Pathologist
12	547-88-4825	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015	Duff Dogdshun	Male	Developer I
13	440-82-9219	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101	Barry Delves	Female	Analog Circuit Design manager
14	803-82-7568	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119	Libbey Divell	Female	VP Sales
15	854-30-4179	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504	Demetria Hazelgrove	Female	Human Resources Assistant IV
16	385-11-6886	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059	Creigh Wreakes	Male	Internal Auditor
17	632-59-2978	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728	Erv Manville	Male	Senior Developer
18	236-54-6347	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672	Mychal Zanetti	Male	Social Worker
19	329-80-2609	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215	Jermain Proudman	Male	Senior Editor
20	351-97-3917	2373	Toyota	Corolla	Aquamarine	2004	563380.62	37000-352	Luika Dundin	Female	Desktop Support Technician
21	298-99-8758	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606	Timmy Duck	Female	Payment Adjustment Coordinator
22	188-55-0225	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801	Barbee Cathel	Female	Chemical Engineer

Car Sales & Shipment Datasource

Ready Accessibility:Unavailable

Cloudy 78°F 10:42 AM 10/10/2022

CREATING TARGET TABLE IN DATABASE.

Target file = FA_CARS_SCD2

DBBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <shreya> queries.sql <shreya> Script-1... <shreya> SSIS.sql <shreya> Viewss.s... Cinema_ASSIGN_data <shreya> IISC.sql <shreya> DDL/DML...

Enter a part of object name here

```
> dlithe - rewansolution.database.windows.net:1433
> oracle-88094-0.cloudclusters.net - oracle-88094
> shreya - rewansolution.database.windows.net:
```

CREATE TABLE FA_CARS_SCD2 (

- [SupplierID] float,
- [SupplierAddress] nvarchar(255),
- [SupplierName] nvarchar(255),
- [SupplierContactDetails] nvarchar(255),
- [ProductID] float,
- [CarMaker] nvarchar(255),
- [CarModel] nvarchar(255),
- [CarColor] nvarchar(255),
- [CarModelYear] float,
- [CarPrice] float,
- [CustomerID] nvarchar(255),
- [CustomerName] nvarchar(255),
- [Gender] nvarchar(255),
- [JobTitle] nvarchar(255),
- [PhoneNumber] nvarchar(255),
- [EmailAddress1] nvarchar(255).

Results 1

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear

Project - General

Name Data Source

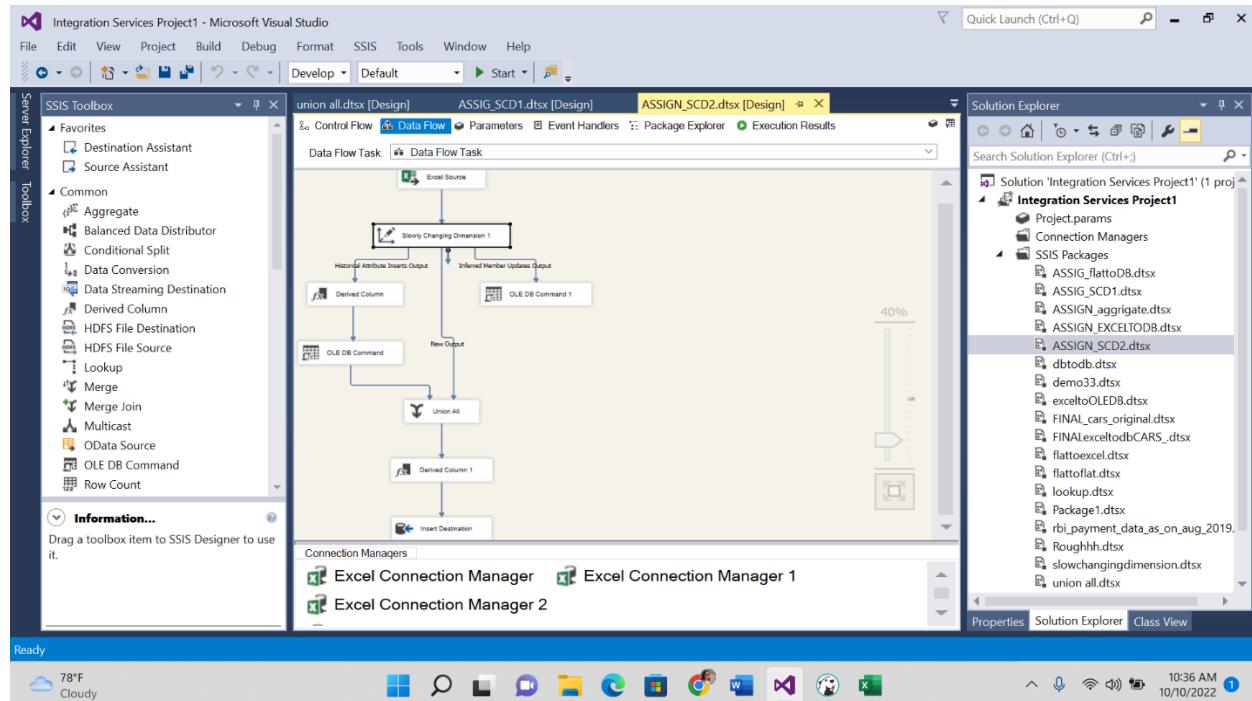
Bookmarks Diagrams Scripts

Record

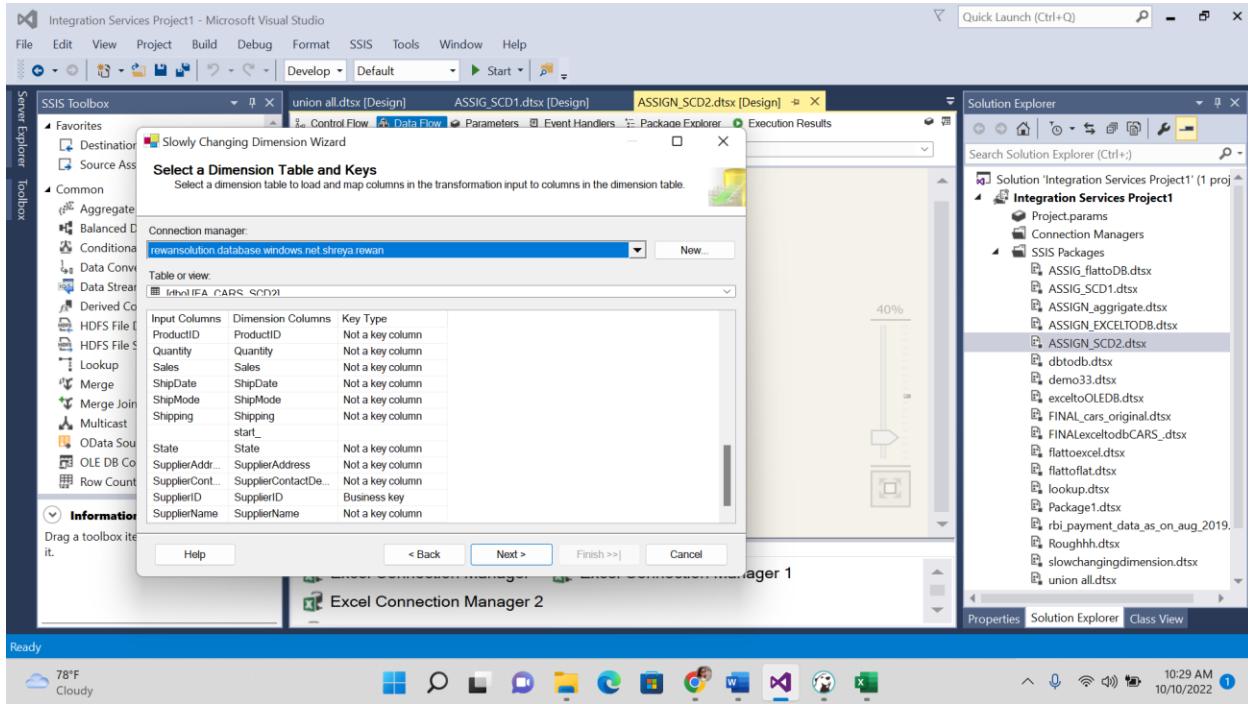
Save Cancel Script IST en Writable Smart Insert Rows: 0 No data- 205ms, on 2022-10-10 at 10:28:22 94 : 28 : 2330 Sel: 0 | 0

Cloudy 78°F 10:28 AM 10/10/2022

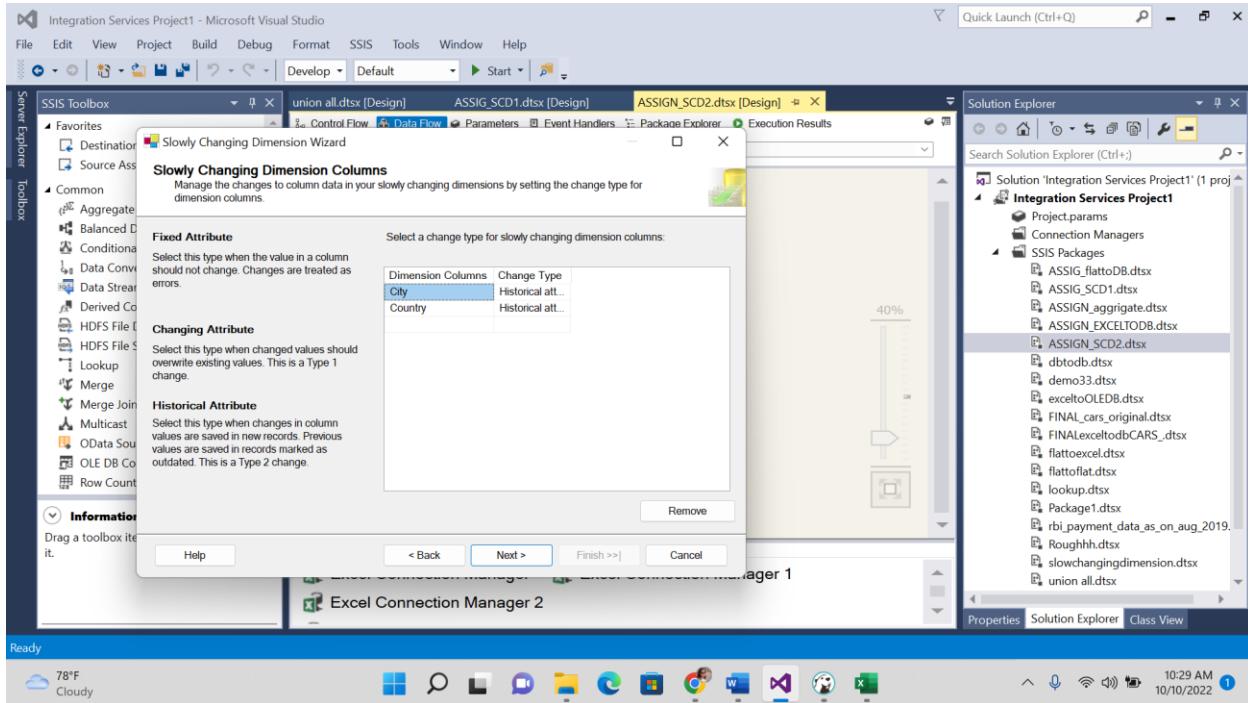
PERFORMING SCD2.

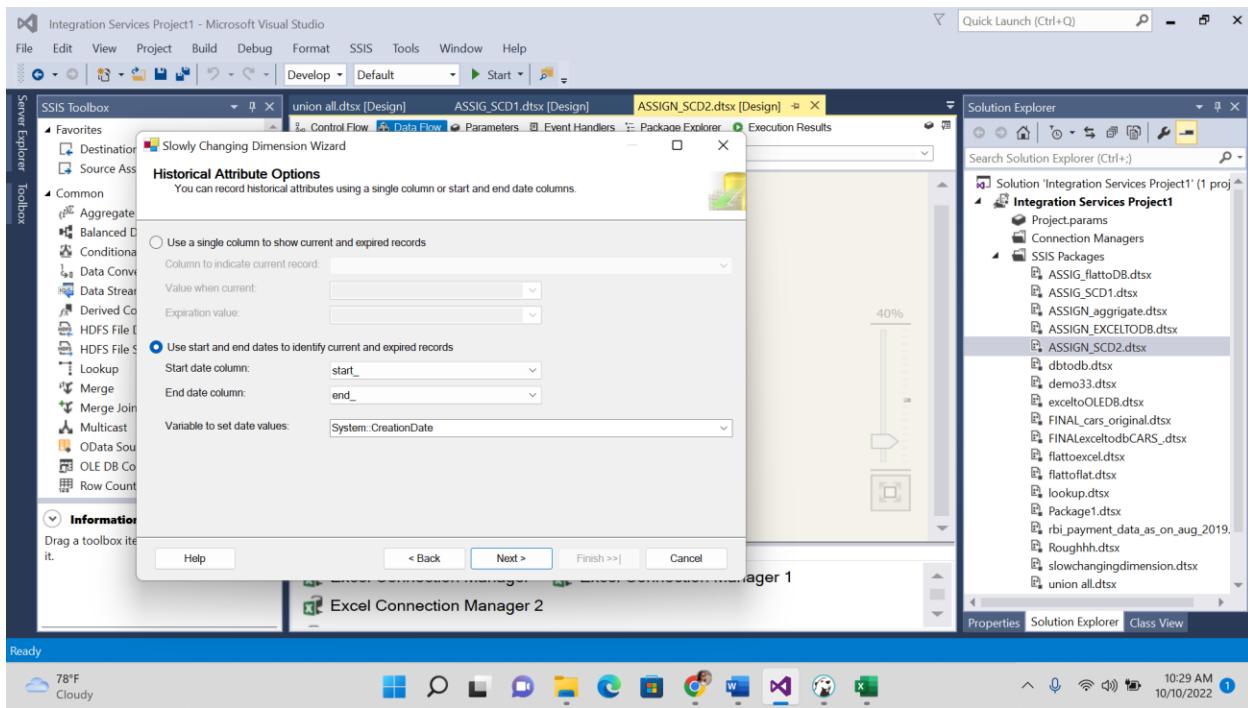


SETTING THE VALUES.

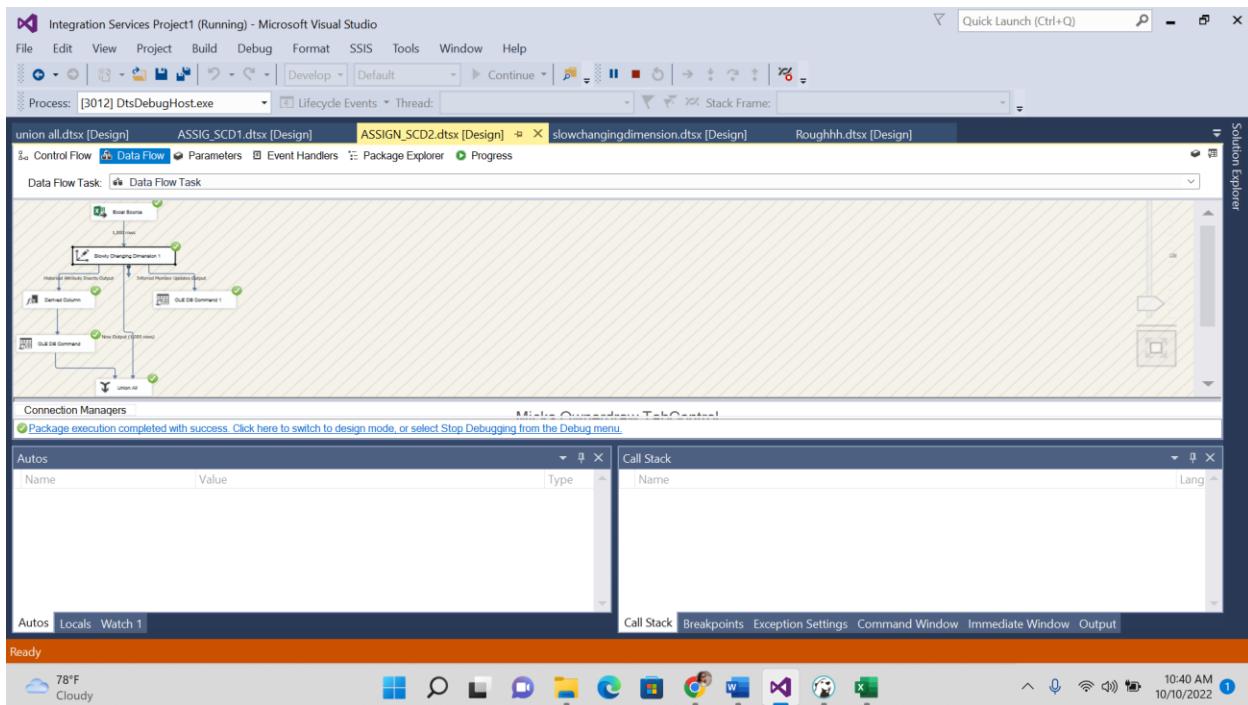


SETTING CITY ,COUNTRY ATTRIBUTES TO HISTORICAL ATTRIBUTES.





Executing the package.



OUTPUT IN DESTINATION DB.

DBBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects > shreya > dbo:shreya > Auto _ > shreya > queries.sql > <shreya> Script-1... > <shreya> SSIS.sql > <shreya> Viewss.s... > Cinema_ASSIGN_data > <shreya> IISC.sql > <shreya> DDL/DML...

Results 1 x

Enter a part of object name here

> <shreya> - rewansolution.database.windows.net:1433

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

> shreya - rewansolution.database.windows.net:

Grid

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelY
1	542 Dayton Center	Bubbletube	871-57-6028	8,893	Dodge	Ram 2500	PINK	
2	2 0674 Springview Circle	Tagopia	337-64-4060	9,444	Toyota	Tundra	WHITE	
3	3 70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	
4	4 649 Corben Lane	Oozz	635-15-3112	1,283	Volkswagen	Cabriolet	Fuscia	
5	5 94 Namekagon Point	Kare	849-23-6788	8,905	Mercury	Mariner	Teal	
6	6 46347 Dunning Drive	Rhynys	378-57-0118	8,877	Toyota	Land Cruiser	Crimson	
7	7 85 Coleman Parkway	Roombo	479-97-2408	101	Subaru	Impreza	Indigo	
8	8 30230 Westerfield Pass	Wordinfy	371-69-6870	8,854	BMW	X6	Purple	
9	9 4 Coleman Street	Skyvu	717-19-7839	9,043	Mitsubishi	Galant	Orange	
10	10 100 Anhalt Place	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	
11	11 7 Esch Trail	Layo	547-88-4825	9,212	Mercedes-Benz	M-Class	Mauv	
12	12 6 Meadow Vale Center	Oyoyo	440-82-9219	7,891	Ford	Taurus X	Crimson	
13	13 0972 Pepper Wood Lai	Quatz	803-82-7568	3,334	Mercedes-Benz	CL-Class	Red	
14	14 55262 Emmet Place	Gabvine	854-30-4179	8,898	Dodge	Avenger	Turquoise	
15	15 330 Pennsylvania Plaza	Jaxspan	385-11-6886	4,531	Nissan	Pathfinder	Khaki	
16	16 428 Meadow Ridge All	Mybuzz	632-59-2978	3,327	BMW	M3	Turquoise	
17	17 26 Stuart Court	Gabcube	236-54-6347	7,975	Mercedes-Benz	R-Class	Puce	
18	18 73 Beilfuss Road	Lazz	329-80-2609	7,029	Honda	FCX Clarity	Yellow	
19	19 9 Lukken Way	Buzzdog	351-97-3917	2,373	Toyota	Corolla	Aquamarine	
20	20 411 Coleman Circle	Yodel	298-99-8758	5,839	Ford	Tempo	Turquoise	
21	21 88 Katie Way	Innjam	188-55-0225	1,459	Mercedes-Benz	SL-Class	Turquoise	
22	22 196 Darwin Park	Skidoo	192-42-0999	8,464	Chevrolet	Monte Carlo	Aquamarine	
23	23 90989 Muir Avenue	Mynte	323-91-4731	7,705	Bentley	Continental Flyr	Fuscia	

Record

Save Cancel Script | Smart Insert | IST | en | Writable | Rows: 0 | 200 row(s) fetched - 131ms (24ms fetch), on 2022-11-10 10:41 AM | 10/10/2022

Cloudy 78°F

Changing the attribute value of

City=Bangalore and country=India where supplier_id=1,

City=Mysore and country=India where supplier_id=2,

in source file.

AutoSave off

FINAL_1000_CARS - Compatibility Mode - Saved

Search (Alt+Q)

Shreya V

File Home Insert Page Layout Formulas Data Review View Help

Comments Share

Font Alignment Number Styles Cells Editing Analysis Sensitivity

Q2 Bangalore

PhoneNumber	EmailAddress	City	Country	CountryCode	State	CustomerAddress	OrderID	ShipDate
907-966-3323	lhhinsche0@comcast.net	Bangalore	India	US	Alaska	1 Independence Circle	43450	0268-6694 43538
320-943-9301	amanuel1@usnews.com	Mysore	India	US	Minnesota	209 Lerdahl Alley	43509	0699-5728 43530
312-561-8337	aweighill2@nature.com	Chicago	United States	US	Illinois	1803 Evergreen Trail	43328	42043-251 43485
407-830-3175	fgunston3@mozilla.org	Orlando	United States	US	Florida	9682 Warbler Terrace	43518	57520-1044 43540
613-870-7247	wpiche5@deviantart.com	Detroit	United States	US	Michigan	5751 Tony Avenue	43349	36987-3308 43494
404-590-7068	alfilpi4@webs.com	Atlanta	United States	US	Georgia	26066 Valley Edge Parkway	43328	11822-0580 43548
617-524-1910	alberti6@google.com.br	Boston	United States	US	Massachusetts	60797 Rowland Pass	43540	24909-111 43489
930-526-4427	owittman7@nps.gov	Charleston	United States	US	West Virginia	0 Sachs Court	43281	49527-013 43466
623-594-6666	kcalvey8@google.cn	Phoenix	United States	US	Arizona	0 Maywood Center	43408	52125-325 43481
408-440-1522	alandsborough9@chron.com	San Jose	United States	US	California	04 Knutson Drive	43428	45802-283 43520
973-213-3415	ddodgshuna@imgur.com	Newark	United States	US	New Jersey	8104 Colorado Avenue	43608	50563-202 43553
315-420-4107	bdevels8@zimbio.com	Syracuse	United States	US	New York	7265 Buell Trail	43436	60512-1035 43605
304-984-5742	ldivellec@blog.com	Charleston	United States	US	West Virginia	26 Mitchell Center	43633	54868-6162 43486
785-371-7195	dhazelgroved@theatlantic.com	Topeka	United States	US	Kansas	25 Dapin Lane	43580	57955-8315 43602
202-159-8703	cvreakese@mtv.com	Washington	United States	US	District of Columbia	9 Nelson Parkway	43324	58118-0404 43472
172-655-8860	emanvilleff@shareasale.com	Chattanooga	United States	US	Tennessee	98287 Tennessee Place	43437	65862-082 43617
937-749-6041	mzannettig@dropbox.com	Dayton	United States	US	Ohio	68 Prairieview Way	43318	50169-0005 43517
920-861-3234	jproutzmanh@independent.co.uk	Appleton	United States	US	Wisconsin	064 Everett Circle	43570	49404-204 43605
615-169-0681	ldundini@hc360.com	Murfreesboro	United States	US	Tennessee	8972 Rieder Terrace	43619	0363-0459 43585
214-914-0768	tduckj@mapquest.com	Annapolis	United States	US	Maryland	90 Mendota Park	43416	57955-2282 43548
812-935-0173	bcathelk@nautilusiale.it	Bloomington	United States	US	Indiana	618 Bunting Court	43437	28107-003 43616

Car Sales & Shipment Datasource

Ready Accessibility: Unavailable

Cloudy 78°F

Executing the package .

The values of particular attributes has changed successfully in destination output.

DBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

> **dilthe** - rewansolution.database.windows.net

> **oracle-88094-0.cloudclusters.net** - oracle-880...

> **shreya** - rewansolution.database.windows.net

<dithe> queries.sql <shreya> Script-1... <shreya> SSIS.sql <shreya> Viewss.s... <shreya> Cinema_ASSIGN_data <shreya> IISC.sql <shreya> DDLM...

```
[OrderID] nvarchar(255),
[ShipDate] float,
[ShipMode] nvarchar(255),
[Shipping] nvarchar(255),
[PostalCode] float,
[Sales] float,
[Quantity] float,
[Discount] float,
[CreditCardType] nvarchar(255),
[CreditCard] float,
[CustomerFeedback] nvarchar(255)
);

drop table FA_CARS_SCD2;
select * from FA_CARS_SCD2;
alter table FA_CARS_SCD2 add start_date;
alter table FA_CARS_SCD2 add end_date;
```

Results

```
select * from FA_CARS_SCD2; Enter a SQL expression to filter results (use Ctrl+Space)
```

	JobTitle	PhoneNumber	EmailAddress	City	Country	CountryCode	State	CustomerAddress	OrderDate	OrderID
1	Mechanical Sy	907-966-3323	lhinschel@comcast	Bangalore	India	US	Alaska	1 Independence Circle	43,450	0268-669
2	Structural Eng	320-943-9301	amanuel1@usnews	Mysore	India	US	Minnesota	209 Lerdahl Alley	43,509	0699-572
3	Systems Adm	312-561-8337	aewighell2@nature	Chicago	United States	US	Illinois	1803 Evergreen Trail	43,328	42043-25
4	Operator	407-830-7247	fgunston3@mozilla	Orlando	United States	US	Florida	9682 Warbler Terrace	43,518	57520-10
5	Software Eng	313-870-7247	aflip4@webs.com	Detroit	United States	US	Michigan	5751 Tony Avenue	43,349	36987-33
6	Professor	404-590-7068	wpich5@deviantar	Atlanta	United States	US	Georgia	26066 Valley Edge Park	43,328	11822-05
7	Biostatistician	617-524-1910	fabert6@google.cc	Boston	United States	US	Massachus	60797 Rowland Pass	43,540	24909-11
8	Administrative	304-526-4427	owittman7@nps.go	Charleston	United States	US	West Virgin	O Sachs Court	43,281	49527-01

Save Cancel Script 200 200+ Rows: 2 200 row(s) fetched - 110ms (6ms fetch), on 2022-10-10 IST en Writable Smart Insert 94 : 28 [27] Sel: 27 | 1

Cloudy 78°F 10:48 AM 10/10/2022

Start_ and End_ attribute values are updated now.

6. Create aggregate table based on the particular column(ex: Country code). Refer to the different data source from target system.

Source file = Cinema Ticket FF (flat file).

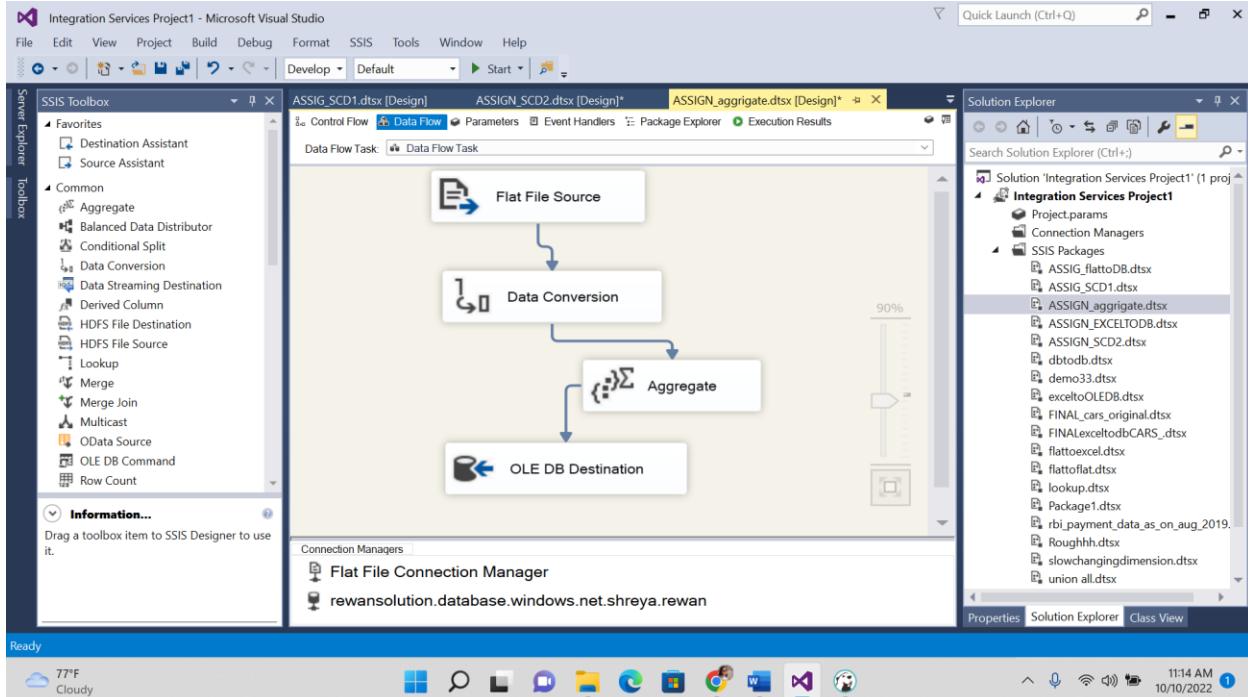
Cinema_Ticket_FF - Notepad

File Edit View

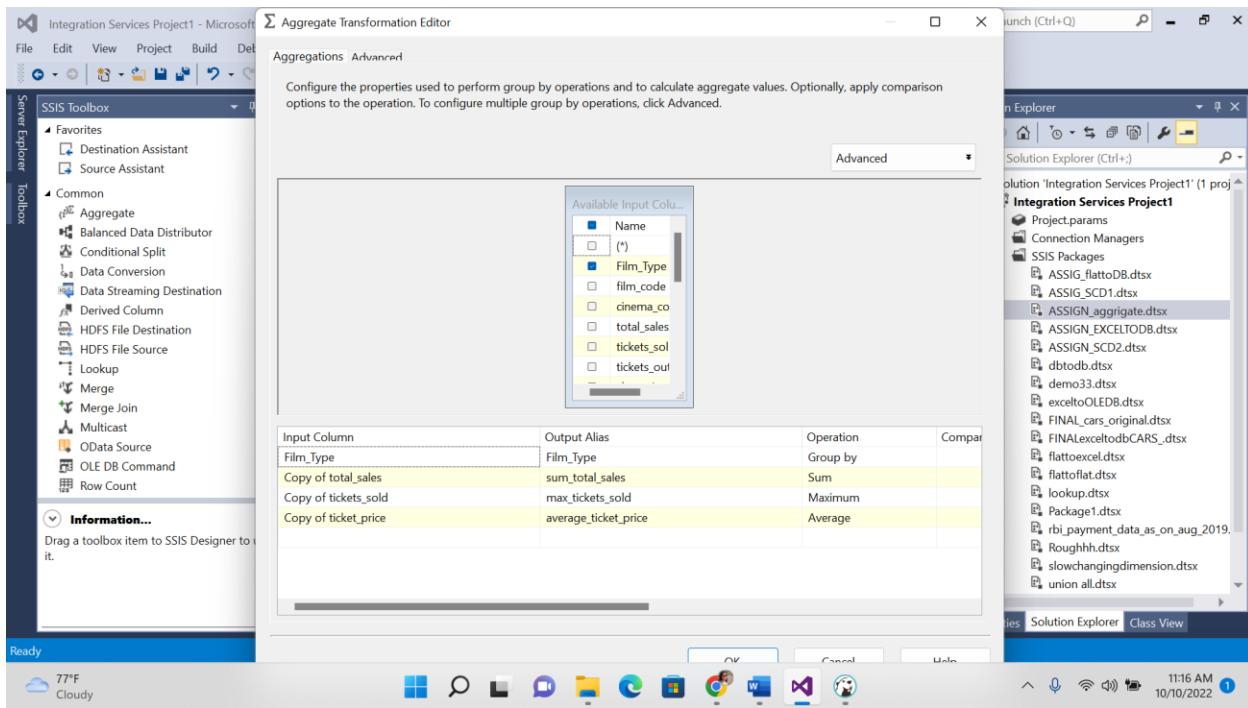
```
Film_Type,film_code,cinema_code,total_sales,tickets_sold,tickets_out,show_time,occu_perc,ticket_price,ticket_use,capacity,date,month,quarter,day
Romance,1492,304,3900000,26,0,4,2599999999999999,150000,26,618,43225,5,2,5
Romance,1492,352,3360000,42,0,5,8,0800000000000001,80000,42,520,43225,5,2,5
Romance,1492,489,2560000,32,0,4,20,80000,32,160,43225,5,2,5
Romance,1492,429,1200000,12,0,1,11,01,100000,12,189,43225,5,2,5
Romance,1492,524,1200000,15,0,3,16,67000000000002,80000,15,90,43225,5,2,5
Romance,1492,71,1050000,7,0,3,0,979999999999998,150000,7,714,43225,5,2,5
Romance,1492,163,1820000,10,0,3,7,6900000000000004,182000,10,130,43225,5,2,5
Romance,1492,450,7500000,5,0,3,1,57000000000001,150000,5,318,43225,5,2,5
Romance,1492,51,7500000,11,0,2,0,9499999999999996,68181,81818000002,11,1158,43225,5,2,5
Romance,1492,522,6000000,4,0,3,1,55,150000,4,258,43225,5,2,5
Romance,1492,43,4800000,6,0,3,0,44,80000,6,1364,43225,5,2,5
Romance,1492,529,4800000,4,0,3,2,96,120000,4,135,43225,5,2,5
Romance,1492,82,4000000,5,0,6,0,5300000000000003,80000,5,943,43225,5,2,5
Romance,1492,344,3800000,2,0,3,0,25,150000,2,800,43225,5,2,5
Romance,1492,73,2400000,2,0,1,2,84,120000,2,98,43225,5,2,5
Romance,1492,304,16500000,112,0,4,18,329999999999998,147321,42860000001,112,611,43224,5,2,4
Romance,1492,352,13950000,93,0,5,10,57,150000,93,880,43224,5,2,4
Romance,1492,344,10200000,68,0,3,8,539999999999991,150000,68,796,43224,5,2,4
Romance,1492,71,6680000,44,0,3,6,1399999999999997,150000,44,717,43224,5,2,4
Romance,1492,163,33600000,31,0,3,24,8000000000000001,108387,0968,31,125,43224,5,2,4
Romance,1492,522,38000000,20,0,3,7,75,150000,20,258,43224,5,2,4
Romance,1492,485,24000000,16,0,3,11,59,150000,16,138,43224,5,2,4
Romance,1492,524,18000000,12,0,3,13,33,150000,12,90,43224,5,2,4
Romance,1492,518,16800000,14,1,3,8,4800000000000004,120000,13,165,43224,5,2,4
Romance,1492,149,14000000,17,0,1,2,9300000000000002,82352,94117999994,17,580,43224,5,2,4
Romance,1492,448,13500000,9,0,2,2,3700000000000001,150000,9,380,43224,5,2,4
Romance,1492,429,12000000,12,0,1,11,01,100000,12,189,43224,5,2,4
Romance,1492,450,18500000,7,0,2,2,299999999999998,150000,7,212,43224,5,2,4
Romance,1492,43,8800000,11,0,3,0,8100000000000005,80000,11,1358,43224,5,2,4
Romance,1492,431,7200000,6,0,2,11,539999999999999,120000,6,52,43224,5,2,4
Romance,1492,529,6800000,5,0,2,5,559999999999996,120000,5,90,43224,5,2,4
```

Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8 | 11:17 AM 10/10/2022

Using aggregate function in SSIS.



Setting up aggregate operations.



Execute the package and the output is shown in destination target table.

Target table = **Assign_Aggregate_cinema**

Film_Type	sum_total_sales	max_tickets_sold	average_ticket_price
Fiction	2,120,200,000	694	66.681
Action	8,075,538,991	2,015	87.789
Science	1,780,934,998	1,656	59,317
Family	3,505,049,998	3,003	89,010
Romance	310,725,000	112	94,030
Horror	2,320,015,000	814	82,263
Thriller	983,815,000	620	78,649
Drama	710,235,000	340	84,524
Comedy	315,250,000	371	57,710

Module 3 SSRS

Entry criteria: The new target system - DWH is created in Module 2

1. Using the newly created DWH - SQL Server , generate different reports

a) Dashboard

b) Reports

Apply the filter on Dashboard and report level. Create meaningful reports.

REPORT ON CAR_SALES_DATASOURCE

The screenshot shows the Microsoft Visual Studio interface with the title bar "SSRS_training - Microsoft Visual Studio". The menu bar includes File, Edit, View, Project, Build, Debug, Format, Report, Tools, Window, Help. The toolbar has standard icons for file operations. The ribbon tabs are "Report Data", "Reportfilters_rdl [Design]", "Assign_SSRS_CINEM...EPORT.rdl [Design]", "Assign_SSRS_cars_report.rdl [Design] (selected)", "total_time.rdl [Design]", and "Report4.rdl [Design]". The main area displays the report titled "REPORT ON CAR SALES" in a light blue header box. Below the header, there are two red boxes: one containing the date and time "10/10/2022 1:44:49 PM" and another containing the text "CORPINDIA \E13170". The main content is a table with the following data:

Car Maker	Supplier ID	Supplier Name	Total Sales
Acura			9687663.14
Aston Martin			1786735.58
Audi			21496148.1
Austin			777048.56
Bentley			5232775.28
BMW			23742310.09
Buick			34876572.62
Cadillac			15278308.78
Chevrolet			70988582.01
Chrysler			

The screenshot shows the Microsoft Visual Studio interface with the title bar "SSRS_training - Microsoft Visual Studio". The menu bar, toolbar, and ribbon tabs are identical to the first screenshot. The main content is a table with the following data:

Car Maker	Supplier ID	Supplier Name	Total Sales
Acura			9687663.14
Aston Martin			1786735.58
Audi			21496148.1
Austin			777048.56
Bentley	23	Mynte	736530.42
	236	Voonte	857281.07
	346	Bubbletube	799003.87
	347	Quamba	988207.53
	394	Camimbo	877567.11
	662	Topiclounge	974185.28
			5232775.28
BMW			23742310.09
Buick			34876572.62
Cadillac			15278308.78
Chevrolet			70988582.01
Chrysler			11921981.58
Citroën			853729.39
Daewoo			824035.7
Dodge			42178931.93

SSRS_training - Microsoft Visual Studio

File Edit View Project Build Debug Format Report Tools Window Help

Report Data Default Start B / U A

Reportfilters.rdl [Design] Assign_SSRS_CINEM...EPORT.rdl [Design] Assign_SSRS_cars_report.rdl [Design] total_time.rdl [Design] Report4.rdl [Design]

Design Preview

1 of 3 Find Next

BMW			23742310.09
Buick			34876572.62
Cadillac			15278308.78
Chevrolet			70988582.01
Chrysler			11921981.58
Citroen			853729.39
Daewoo			824035.7
Dodge			42178931.93
Eagle			338343.55
Ferrari			4864206.91
Ford			54008409.45
Geo			3539749.98
GMC			31418872.96
Honda			16087658.74
Hyundai			12324866.48
Infiniti			13876324.8
Isuzu			15458400.33
Jaguar			11653760.2
Jeep			9951608.87
Kia			13358452.95

Report Data SQL Server Obj...

Ready

80°F Cloudy 1:45 PM 10/10/2022

SSRS_training - Microsoft Visual Studio

File Edit View Project Build Debug Format Report Tools Window Help

Report Data Default Start B / U A

Reportfilters.rdl [Design] Assign_SSRS_CINEM...EPORT.rdl [Design] Assign_SSRS_cars_report.rdl [Design] total_time.rdl [Design] Report4.rdl [Design]

Design Preview

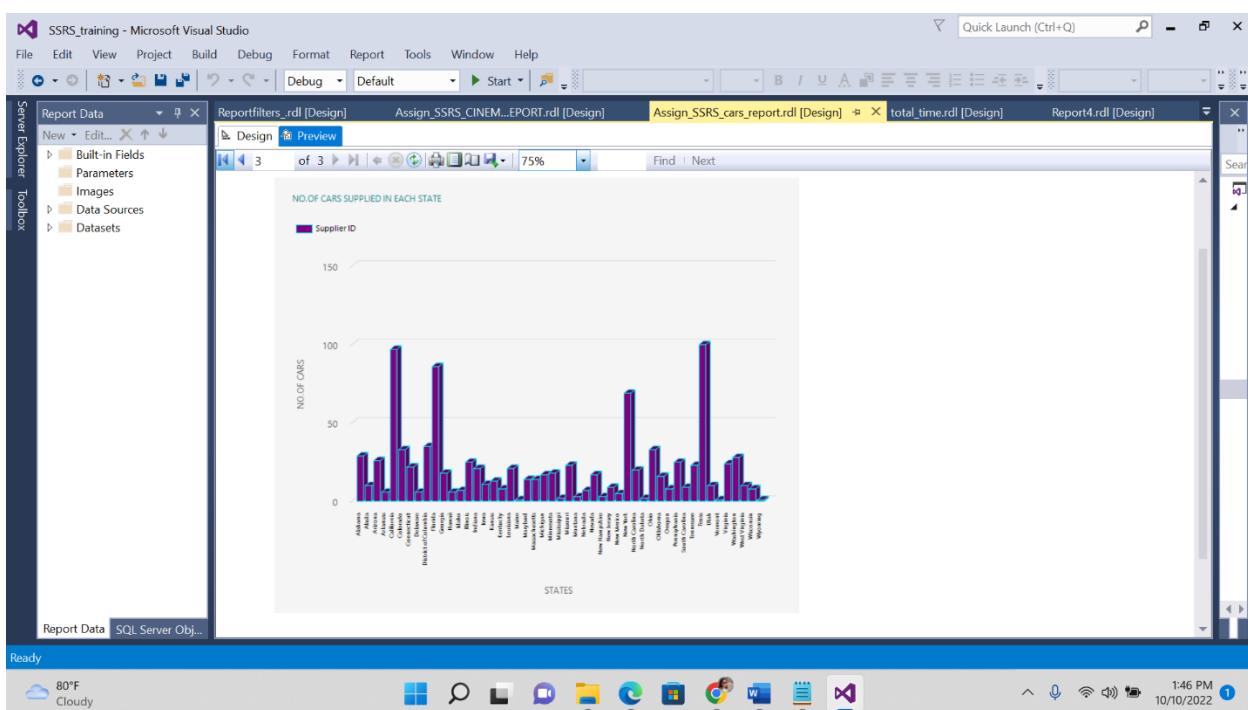
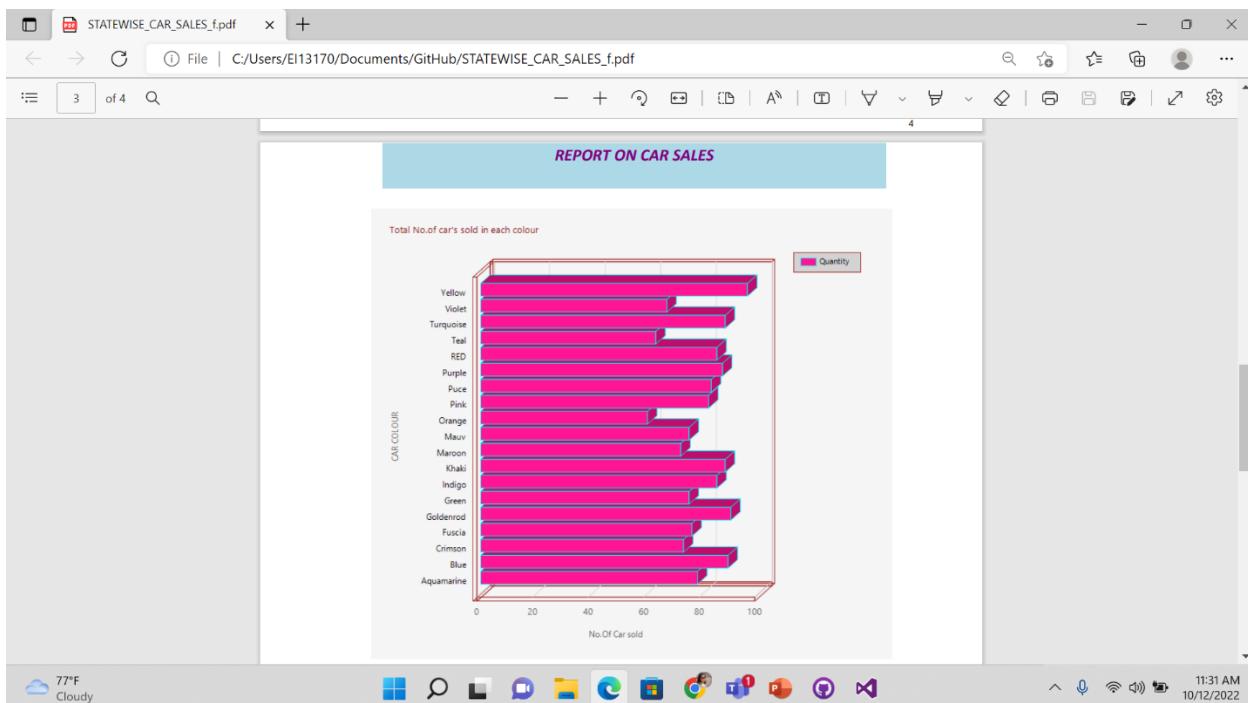
1 of 3 Find Next

Hyundai			12324000.40
Infiniti			13876324.8
Isuzu			15458400.33
Jaguar			11653760.2
Jeep			9951608.87
Kia			13358452.95
Lamborghini			7026228.98
Land Rover			8731717.99
Lexus			15515157.24
Lincoln			13887779.57
Lotus			3584441.45
Maserati			5169254.56
Maybach			2671420.98
Mazda			36808263.57
Mercedes-Benz			38327910.1
Mercury			12619463.9
MG			831134.31
MINI			1674713.83
Mitsubishi			34500615.49

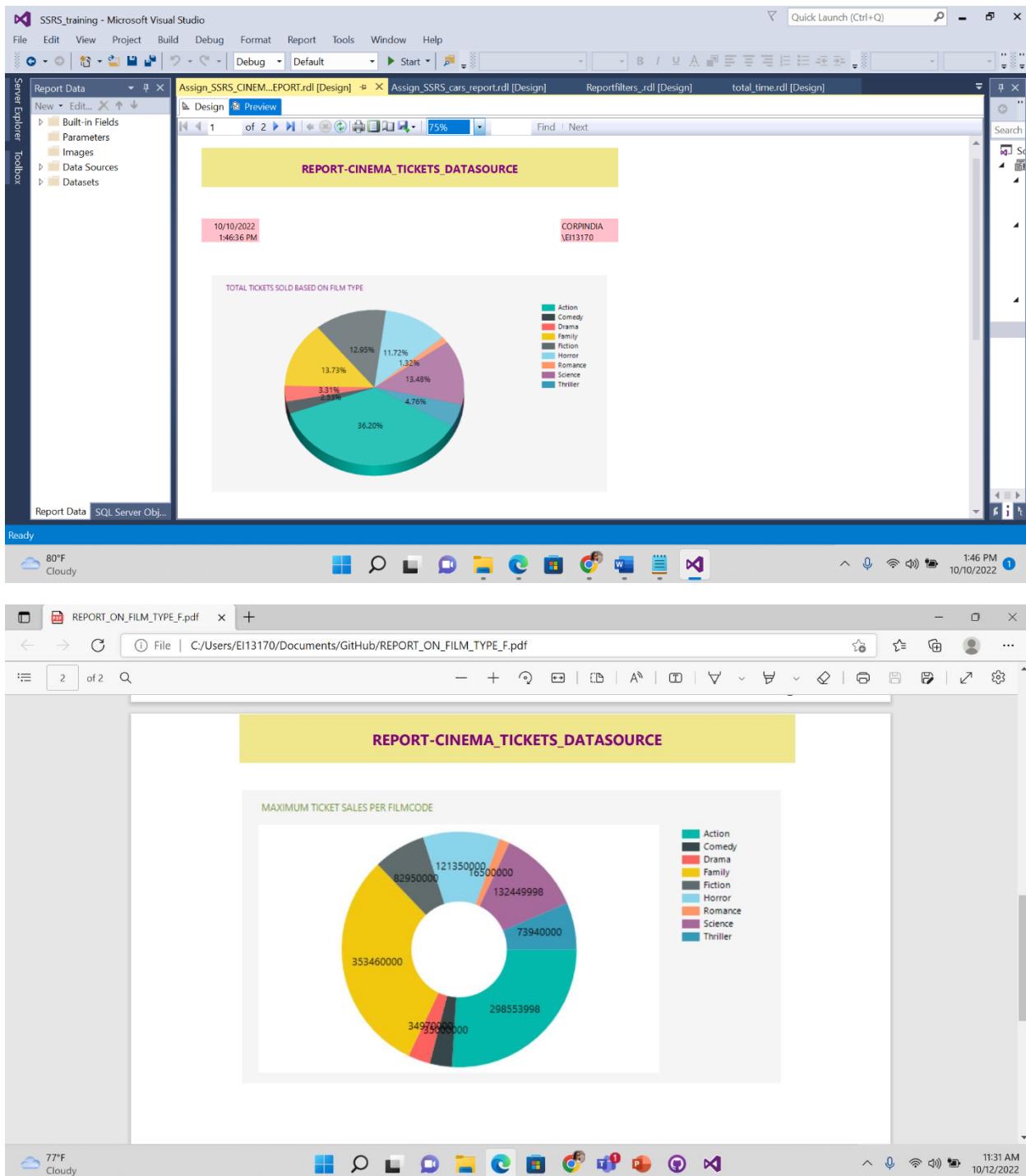
Report Data SQL Server Obj...

Ready

80°F Cloudy 1:45 PM 10/10/2022



REPORT ON CINEMA_DATASOURCE

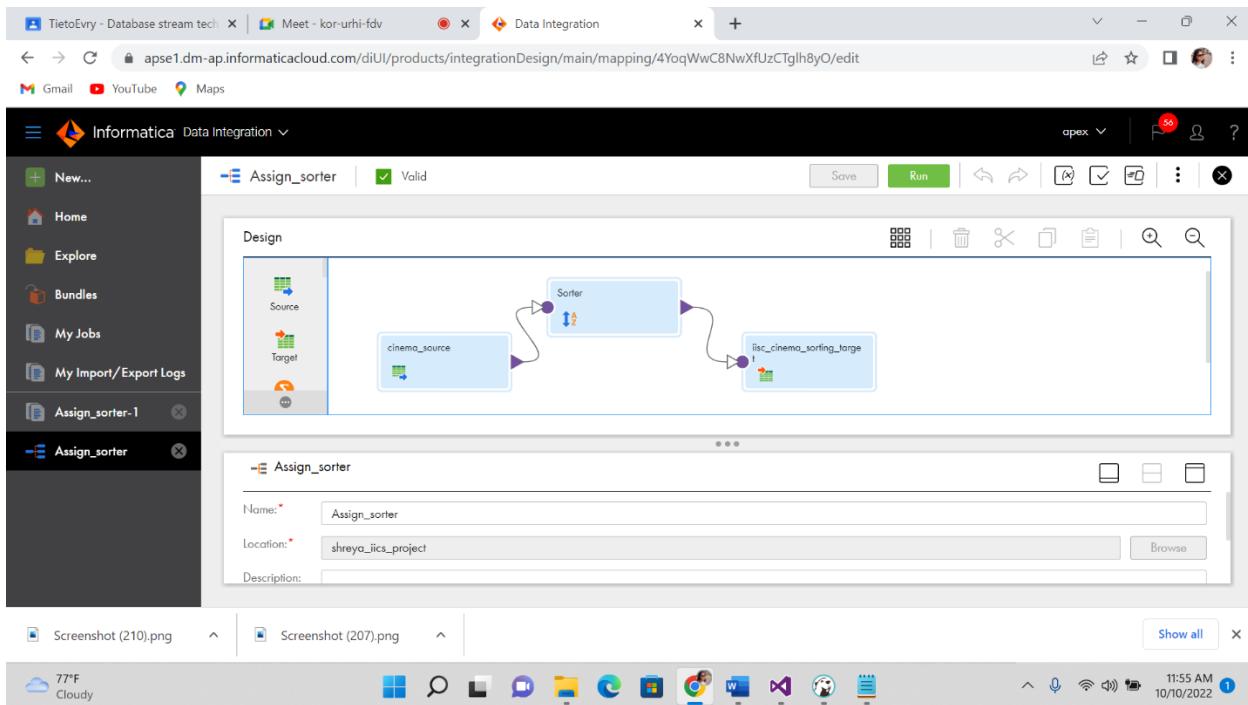


Module 4 IICS

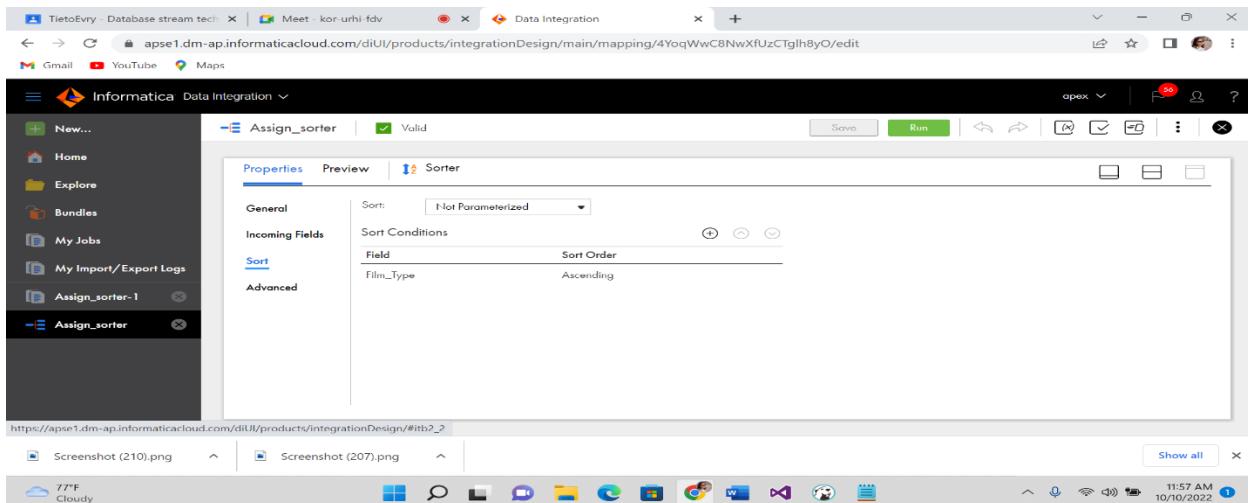
Entry criteria: Transactions tables created in Module 1, task 2

1. Make connection to different data source (Oracle DB, Flat file, SQL Server)
2. Extract
3. Transform
4. Load to new target system - SQL Server

SORTING



Sorting film_type attribute in ascending order ;



OUTPUT TARGET TABLE = **iisc_cinema_sorting_target (OLE DB DESTINATION)**;

DBBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <shreya> Auto shreya dbo:shreya Results 1 x

Enter a part of object name here

> <shreya> - rewansolution.database.windows.net:1433

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

> <shreya> - rewansolution.database.windows.net:1433

SELECT * FROM iisc_cinema_sorting_target

Record	Action	1.482	448	298,553,998	2,015	Copy_tickets_out	0	12.80,019995
1	Action	1.482	34	186,360,000	1,553	0	0	6.57,520000
2	Action	1.482	163	186,120,000	1,380	0	0	9.68,790000
3	Action	1.482	304	179,250,000	1,200	0	0	8.77,670000
4	Action	1.482	182	154,640,000	1,933	0	0	5.75,099995
5	Action	1.482	344	118,650,000	793	0	0	4.74,459995
6	Action	1.482	518	115,080,000	1,152	1	1	12.77,109995
7	Action	1.482	71	113,400,000	769	0	0	3.70,230000
8	Action	1.482	89	112,200,000	748	0	0	6.37,490000
9	Action	1.482	195	91,200,000	1,140	0	0	13.49,140000
10	Action	1.482	141	87,600,000	595	0	0	6.68,120000
11	Action	1.482	396	80,600,000	806	0	0	4.65
12	Action	1.482	524	78,300,000	530	1	1	7.57,799995
13	Action	1.482	210	78,000,000	1,345	0	0	9.69,079995
14	Action	1.482	142	77,050,000	780	2	2	6.44,219995
15	Action	1.482	52	71,050,000	713	0	0	6.35,579995
16	Action	1.482	489	70,550,000	504	0	0	16.55,43
17	Action	1.482	390	67,800,000	819	0	0	10.92,609995
18	Action	1.482	450	66,900,000	450	0	0	4.92,980000
19	Action	1.482	70	63,000,000	630	0	0	14.12,33
20	Action	1.482	144	60,160,000	752	0	0	14.13,92
21	Action	1.482	262	59,000,000	594	0	0	3.61,880000
22	Action	1.482	417	58,700,000	605	0	0	5.30,960000
23	Action	1.482	77	58,000,000	770	0	0	5.30,960000

Record

Save Cancel Script IST en Writable Smart Insert 200 200+ Rows: 1 200 row(s) fetched - 170ms (29ms fetch), on 2022-11-10 11:57 AM 10/10/2022

Cloudy 77°F

5. Perform SCD 1 & SCD2 dimension table modelling

SCD-1

Setting

Source = T_FINAL_CARS_1000.

Expression = MD5(SupplierID || CarModelYear || CarPrice)

Lookup object = assign_iisc_cars_SCD1.

Lookup Condition as shown below.

TietoEvry - Database stream tech | Meet - kor-urhi-fdv | Data Integration

apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/mapping/1Bg942AT0h3jhBhjk0fEJ/edit

Gmail YouTube Maps

Informatica Data Integration

ASSIGN_SCD1_cars Valid Save Run

Design

Properties Preview Lookup

Lookup Object: tar_SupplierID

Lookup Conditions:

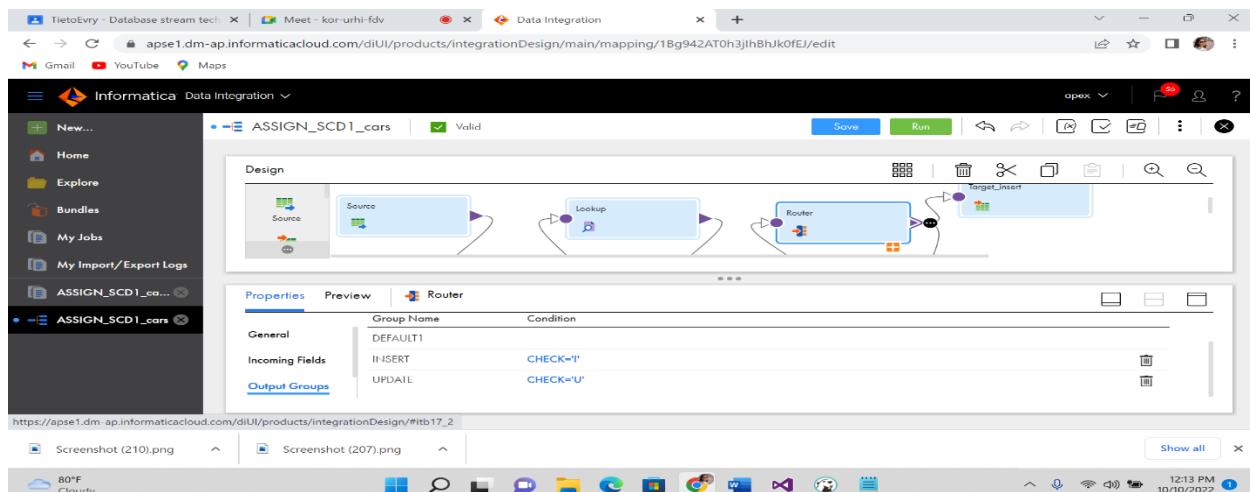
Return Fields	Lookup Field	Operator	Incoming Field
	tar_SupplierID	=	SupplierID

Screenshot (210).png Screenshot (207).png Show all

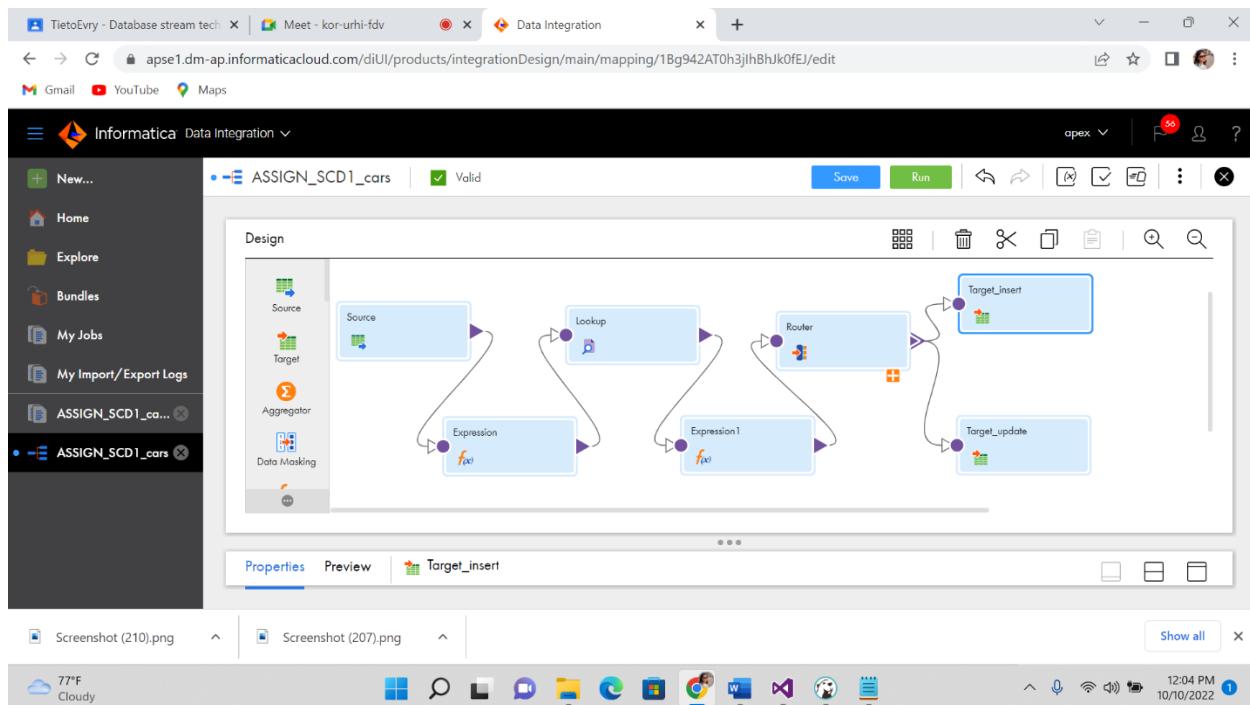
Cloudy 80°F

Expression1 = IIF(ISNULL(tar_SupplierID), 'I', IIF(Checksum!=tar_Checksum,'U')).

Router =



Setting the target and mapping the fields in both the target tables.



Run the package.

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
Replication Task4-1	shreya_iics_pro...	1 task	Oct 7, 2022, 12:00...	Oct 7, 2022, 1...	0	Success
ASSIGN_SCD2_cars-2	shreya_iics_pro...		Oct 8, 2022, 5:43 A...	Oct 8, 2022, 5...	4	Success
ASSIGN_SCD2_cars_1	shreya_iics_pro...		Oct 8, 2022, 5:43 A...	Oct 8, 2022, 5...	1000	Success
ASSIGN_SCD1_cars-4	shreya_iics_pro...		Oct 8, 2022, 3:57 A...	Oct 8, 2022, 3...	1	Success
ASSIGN_SCD1_cars-3	shreya_iics_pro...		Oct 8, 2022, 3:39 A...	Oct 8, 2022, 3...	1000	Success
ASSIGN_SCD1_cars-2	shreya_iics_pro...		Oct 8, 2022, 3:05 A...	Oct 8, 2022, 3...	1000	Success
ASSIGN_SCD1_cars_1	shreya_iics_pro...		Oct 8, 2022, 2:26 A...	Oct 8, 2022, 2...	9	Success
Assign_sorter-1	shreya_iics_pro...		Oct 7, 2022, 11:27 ...	Oct 7, 2022, 1...	2000	Success
Mapping33-1	shreya_iics_pro...		Oct 1, 2022, 1:17 A...	Oct 1, 2022, 1...	0	Failed
Mapping31-1	shreya_iics_pro...		Sep 30, 2022, 5:50 ...	Sep 30, 2022, ...	13697	Success

Output in destination table.

Changing the attribute values carprice and carmodelyear in source.

DBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <shreya> dbo@shreya Auto Commit Rollback

Enter a part of object name here

> **ditlitho - rewsolutions.database.windows.net:1433**

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

> **shreya - rewsolutions.database.windows.net:1433**

select DISTINCT film_type from TARGET_CINEMA_IICS;
select * from TARGET_CINEMA_IICS_FINAL;
select * from TARGET_CARS_IICS;

UPDATE T_FINAL_CARS_1000
SET CarPrice= '33333.3'
where SupplierID=2;

UPDATE T_FINAL_CARS_1000
SET CarPrice= '11111.3'
where SupplierID=1;

UPDATE T_FINAL_CARS_1000
SET CarModelYear = '2022'
where SupplierID=3;
-----FINAL-----

Results 1 x

SELECT * FROM T_FINAL_CARS_1000 Enter a SQL expression to filter results (use Ctrl+Space)

Grid	id	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle	PhoneNumber	Error	
Text	1	0	Red	2,007	111,111.3	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer	907-966-3323	Ihing
Record	2		Crimson	2,010	33,333.3	67457-594	Alexandros Manuel	Male	Structural Engineer	320-943-9301	ama
Text	3	500	Crimson	2,022	504,465.72	58411-135	Alvie Weighell	Male	Systems Administrator III	312-561-8337	awei
Text	4		Fuscia	1,990	646,077.11	0591-5307	Flin Gunston	Male	Operator	407-830-3175	fgun
Text	5		Teal	2,009	699,890.24	51655-189	Alyssa Filpi	Female	Software Engineer III	313-870-7247	aflip
Text	6	User	Crimson	2,005	694,373.94	65811-0001	Watt Piche	Male	Professor	404-590-7068	wpic
Text	7		Indigo	1,999	546,977.55	31722-328	Findlay Alberti	Male	Biostatistician III	617-524-1910	fbalfe
Text	8		Purple	2,013	528,353.8	54162-018	Ottile Wittman	Female	Administrative Officer	304-526-4427	owit

Save Cancel Script ⌘ S ⌘ R ⌘ F ⌘ L ⌘ K ⌘ X ⌘ I ⌘ O ⌘ P ⌘ W ⌘ B ⌘ C ⌘ 200 ⌘ 200+ ⌘ Rows: 3 ⌘ 200 row(s) fetched - 121ms (10ms fetch), on 2022-11-10 ⌘ IST en Writable Smart Insert ⌘ 354 : 1 [224] Sel: 224 | 11 ⌘

Cloudy 80°F

12:23 PM 10/10/2022

Run the package.

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs' (which is selected), 'My Import/Export Logs', 'ASSIGN_SCD1_cars', and 'ASSIGN_SCD1_cars'. The main area is titled 'My Jobs' and shows a table of 17 jobs. The columns include 'Instance Name', 'Location', 'Subtasks', 'Start Time', 'End Time', 'Rows Processed', and 'Status'. Most jobs have a green checkmark icon and are labeled 'Success'. A few jobs have a yellow warning icon. The status bar at the bottom right indicates it's 12:26 PM on 10/10/2022.

The values has been updated in target table = [assign_iisc_cars_SCD1](#);

The screenshot shows the DBBeaver 22.2.0 interface. At the top, there's a menu bar with File, Edit, Navigate, Search, SQL Editor, Database, Window, Help. Below the menu is a toolbar with various icons. The main area is a 'Results 1 x' grid showing the output of a SQL query. The query is 'select * from assign_iisc_cars_SCD1;'. The results grid has columns for tar_CarColor, tar_CarModelYear, tar_CarPrice, tar_CustomerID, tar_CustomerName, tar_Gender, tar_JobTitle, and tar_PhoneN. There are 21 rows of data. The status bar at the bottom right indicates it's 12:27 PM on 10/10/2022.

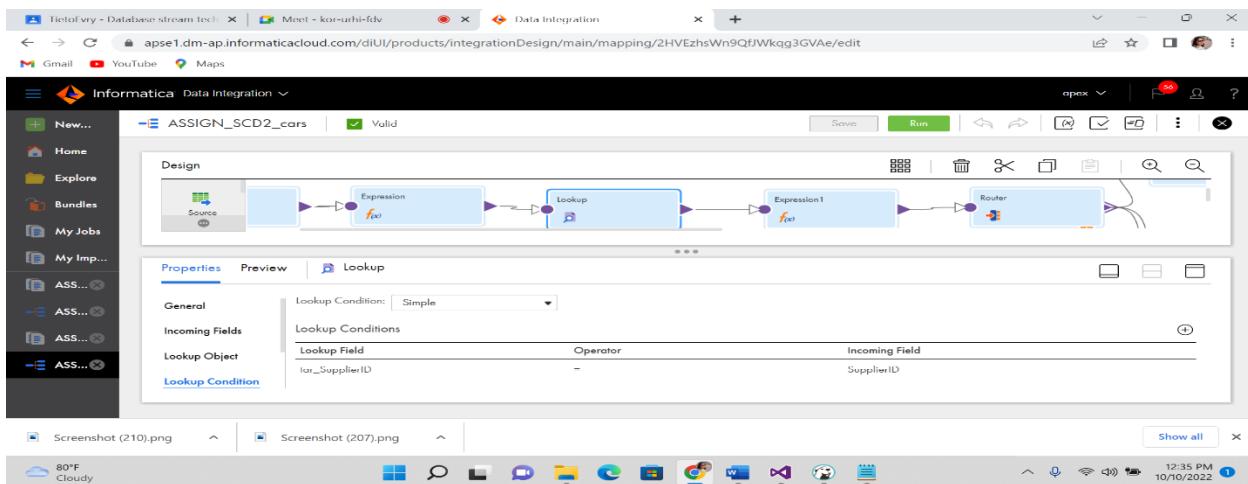
SCD-2

Source = T_FINAL_CARS_1000

Expression= MD5(SupplierID || CarModelYear || CarPrice)

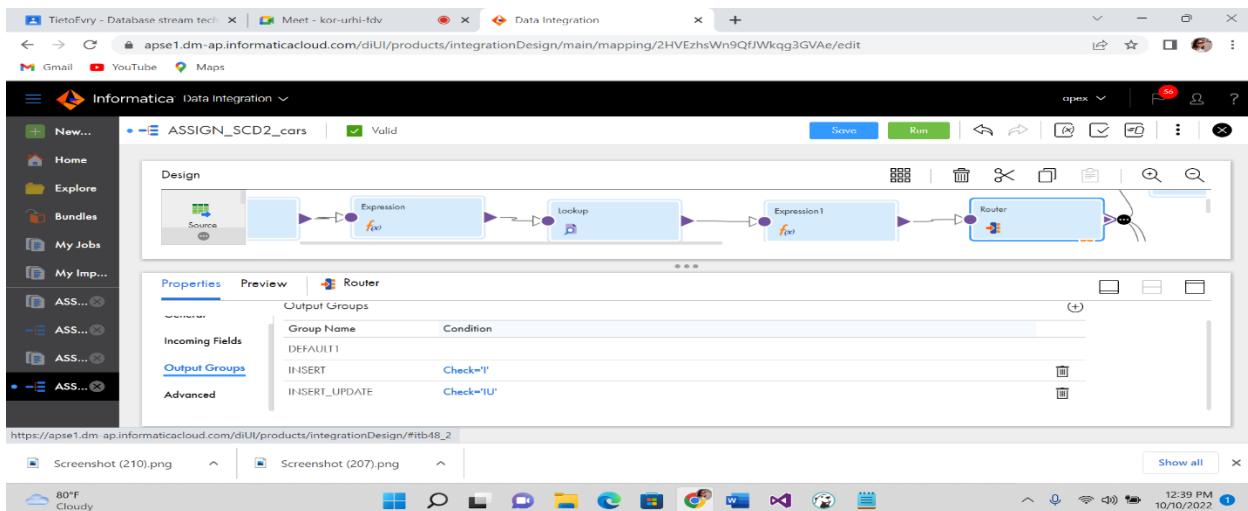
Lookup object = assign_iics_cars_SCD2

Lookup condition as shown below.

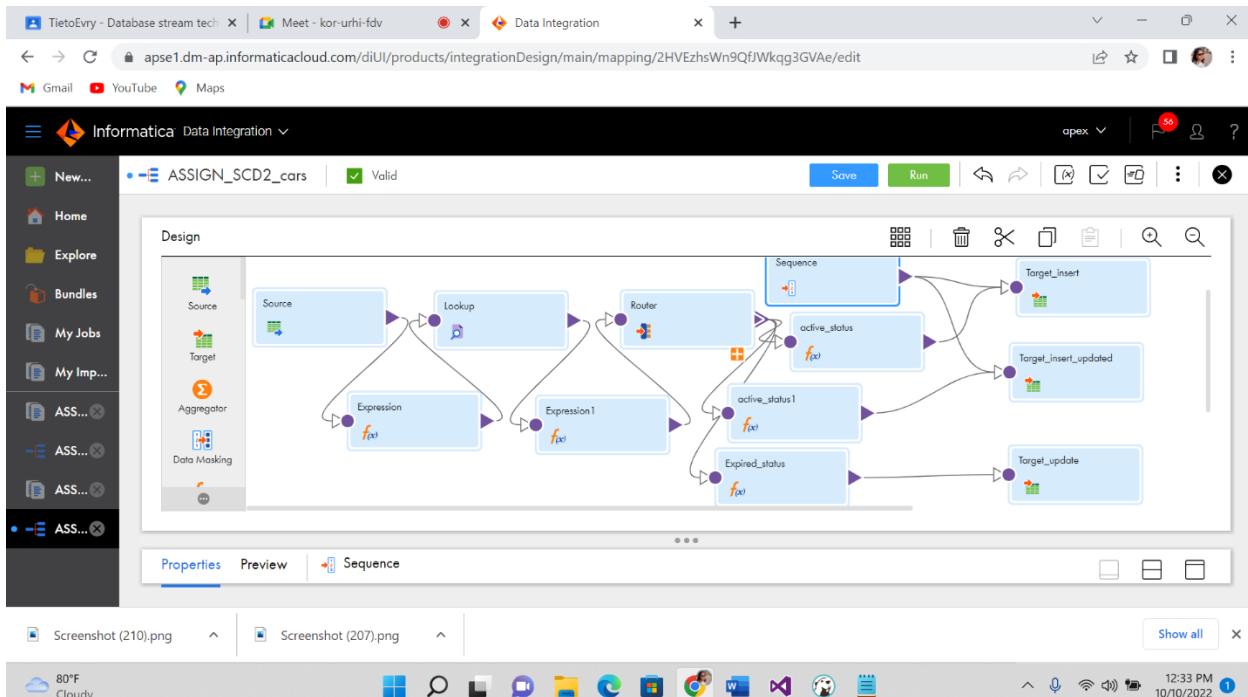


Expression1 = IIF(ISNULL(tar_SupplierID), 'I', IIF(Checksum!=tar_Checksum,'IU'))

Router



Set active_status,active_status1 , expired_status and sequence to the target tables.



Run the package.

Jobs (17) Up to date

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
Replication Task1-1	shreya_iics_project	1 task	Oct 9, 2022, 12:04 AM	Oct 9, 2022, 12:04 AM	0	Success
ASSIGN_SCD2_cars-2	shreya_iics_project	1 task	Oct 8, 2022, 5:43 AM	Oct 8, 2022, 5:43 AM	4	Success
ASSIGN_SCD2_cars-1	shreya_iics_project	1 task	Oct 8, 2022, 5:30 AM	Oct 8, 2022, 5:30 AM	1000	Success
ASSIGN_SCD1_cars-4	shreya_iics_project	1 task	Oct 8, 2022, 3:57 AM	Oct 8, 2022, 3:57 AM	1	Success
ASSIGN_SCD1_cars-3	shreya_iics_project	1 task	Oct 8, 2022, 3:39 AM	Oct 8, 2022, 3:40 AM	1000	Success
ASSIGN_SCD1_cars-2	shreya_iics_project	1 task	Oct 8, 2022, 3:05 AM	Oct 8, 2022, 3:05 AM	1000	Success
ASSIGN_SCD1_cars-1	shreya_iics_project	1 task	Oct 8, 2022, 2:26 AM	Oct 8, 2022, 2:26 AM	9	Success
Assign_sorter-1	shreya_iics_project	1 task	Oct 7, 2022, 11:27 PM	Oct 7, 2022, 11:27 PM	2000	Success
Mapping33-1	shreya_iics_project	1 task	Oct 1, 2022, 1:17 AM	Oct 1, 2022, 1:17 AM	0	Failed
Mapping31-1	shreya_iics_project	1 task	Sep 30, 2022, 5:50 AM	Sep 30, 2022, 5:50 AM	1369/	Success

Changing the attribute values carprice and carmodelyear in source.

```

SELECT * FROM T_FINAL_CARS_1000;
select * from Cinema_ASSIGN_data;
select * from Final_original_cars_data;
select DISTINCT film_type from TARGET_CINEMA_IICS;
select * from TARGET_CINEMA_IICS_FINAL;
select * from TARGET_CARS_IICS;

UPDATE T_FINAL_CARS_1000
SET CarPrice= '10000.3'
where SupplierID=2;

UPDATE T_FINAL_CARS_1000
SET CarModelYear = '2030'
where SupplierID=3;
-----FINAL-----

```

CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle	PhoneNU
Ram 2500	Red	2.007	111,111.3	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer	907-966-32
Tundra	Crimson	2.010	10,000.3	67457-594	Alexandros Manuel	Male	Structural Engineer	320-943-93
Savana 1500	Crimson	2.030	504,465.72	58411-135	Alvia Weighell	Male	Systems Administrator III	312-561-82
Cabriolet	Fuscia	1.990	646,077.11	0591-5307	Flint Gunston	Male	Operator	407-830-31
Mariner	Teal	2.009	699,890.24	51655-189	Alyssa Filipi	Female	Software Engineer III	313-870-72

Run the package.

Jobs (18) Updates available

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
ASSIGN_SCD2_cars-3	shreya_iics_project	1 task	Oct 10, 2022, 12:20 AM	Oct 10, 2022, 12:20 AM	6	Success
ASSIGN_SCD1_cars-3	shreya_iics_project	1 task	Oct 9, 2022, 11:57 PM	Oct 9, 2022, 11:57 PM	3	Success
Replication Task1-1	shreya_iics_project	34 tasks	Oct 9, 2022, 5:57 AM	Oct 9, 2022, 7:2...	31052	Success
ASSIGN_LAGGREGATE_C...	shreya_iics_project	1 task	Oct 9, 2022, 12:45 AM	Oct 9, 2022, 12:45 AM	54	Success
ASSOC_AGGREGATE_FIN...	shreya_iics_project	1 task	Oct 9, 2022, 12:38 AM	Oct 9, 2022, 12:38 AM	9	Success
IICS_aggregate_2	shreya_iics_project	1 task	Oct 9, 2022, 12:08 AM	Oct 9, 2022, 12:08 AM	9	Warning
IICS_aggregate_1	shreya_iics_project	1 task	Oct 9, 2022, 12:23 AM	Oct 9, 2022, 12:23 AM	9	Warning
Replication Task4-2	shreya_iics_project	1 task	Oct 9, 2022, 12:08 AM	Oct 9, 2022, 12:08 AM	305	Success
Replication Task4-1	shreya_iics_project	1 task	Oct 9, 2022, 12:04 AM	Oct 9, 2022, 12:04 AM	0	Success
ASSIGN_SCD2_cars-2	shreya_iics_project	1 task	Oct 8, 2022, 5:13 AM	Oct 8, 2022, 5:13 AM	4	Success
ASSIGN_SCD2_cars-1	shreya_iics_project	1 task	Sep 30, 2022, 5:50 AM	Sep 30, 2022, 5:50 AM	1000	Success

Output Target table = assign_iics_cars_SCD2.

The rows are successfully updated and status are changed to expired.

DBBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator > Projects > <dilthe> queries.sql <shreya> Script-1... <shreya> SSIS.sql <shreya> Viewss.s... <Cinema_ASSIGN_data> <shreya> IISC.sql <shreya> DDL/DML...

Enter a part of object name here

```
> dilthe - rewansolution.database.windows.net:1433
> oracle-88094-0.cloudclusters.net - oracle-88094
> shreya - rewansolution.database.windows.net:
```

SELECT * FROM iisc_cinema_sorting_target;

select * from assign_iisc_cars_SCD1;

select * from assign_iics_cars_SCD2;

Results 1

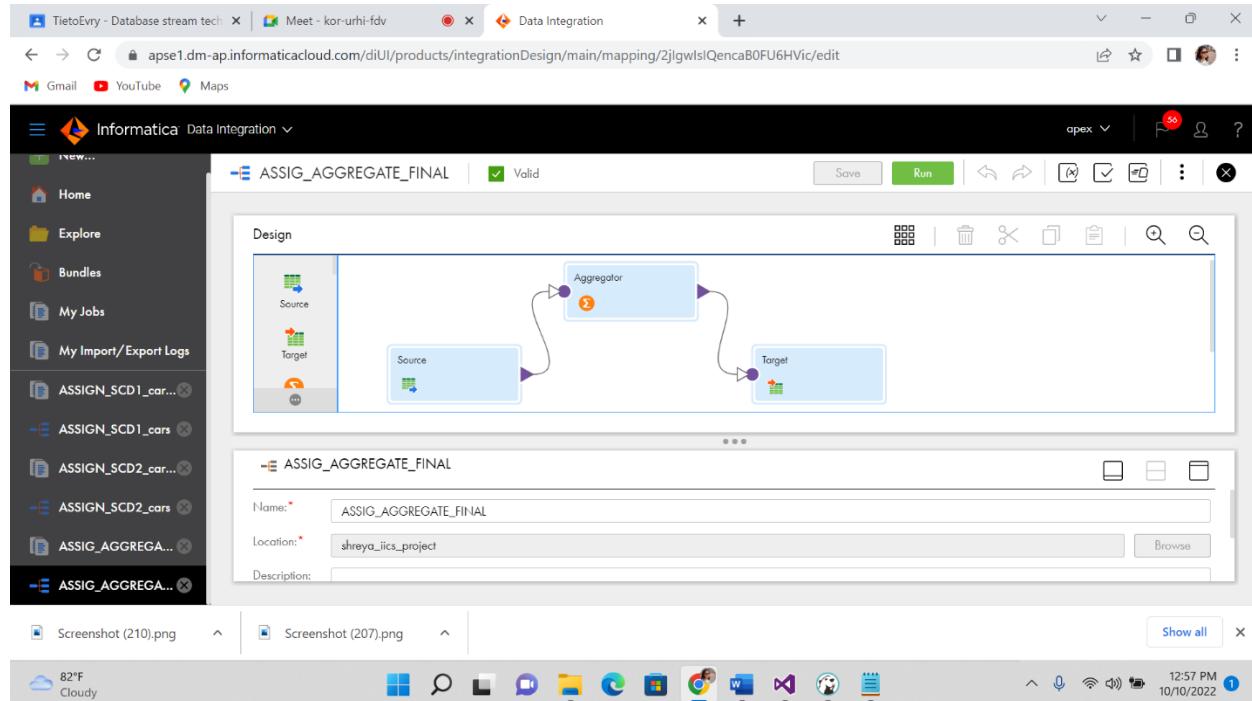
	tar_Sales	tar_Quantity	tar_Discount	tar_CreditCardType	tar_CreditCard	tar_CustomerFeedback	tar_Checksum	tar_Status
1	744,796.41	1	0.83	diners-club-carte-blanche	30,408,000,000,000	Bad	4EE998476	EXPIRED
2	794,773.17	1	0.79	jcb	3,549,220,000,000,000	Good	92623DA575	EXPIRED
3	968,244.9	1	0.28	jcb	3,557,160,000,000,000	Okay	5A20F8F6BC	EXPIRED
4	942,213.82	2	0.76	jcb	3,529,910,000,000,000	Very Bad	89D7E3D767	ACTIVE
5	879,519.57	1	0.5	china-unionpay	5,602,240,000,000,000	Bad	D7CD3DADD6	ACTIVE
6	947,785.4	2	0.39	laser	6,706,250,000,000,000	Good	E268D0A423	ACTIVE
7	883,836.81	2	0.79	diners-club-carte-blanche	30,528,100,000,000,000	Very Bad	0CA11E5C3B	ACTIVE
8	779,626.29	1	0.9	jcb	3,589,140,000,000,000	Bad	FD1627C3E2	ACTIVE
9	818,364.32	2	0.5	jcb	3,557,050,000,000,000	Okay	B48668FB29	ACTIVE
10	902,866.47	1	0.61	jcb	3,534,730,000,000,000	Very Bad	BBF762E3AE	ACTIVE
11	932,957.69	1	0.62	diners-club-enroute	201,441,000,000,000	Very Bad	4D537A02FC	ACTIVE
12	743,643.26	2	0.61	jcb	3,558,310,000,000,000	Okay	B388D08137	ACTIVE
13	856,186.55	2	0.81	diners-club-enroute	201,524,000,000,000	Good	1C1985B58B	ACTIVE
14	703,359.96	1	0.88	jcb	3,542,460,000,000,000	Good	883A91B6FC	ACTIVE
15	832,581.18	2	0.44	jcb	3,547,070,000,000,000	Good	2DD85C5CD7	ACTIVE
16	948,098.46	2	0.84	visa	4,041,370,000,000	Good	7902680AAF	ACTIVE

Save Cancel Script | IST en Writable | Smart Insert | Rows: 1 | 200 row(s) fetched - 94ms (7ms fetch), on 2022-10-1 | 337 : 37 : 8631 | Sel: 0 | 0 | 12:50 PM 10/10/2022

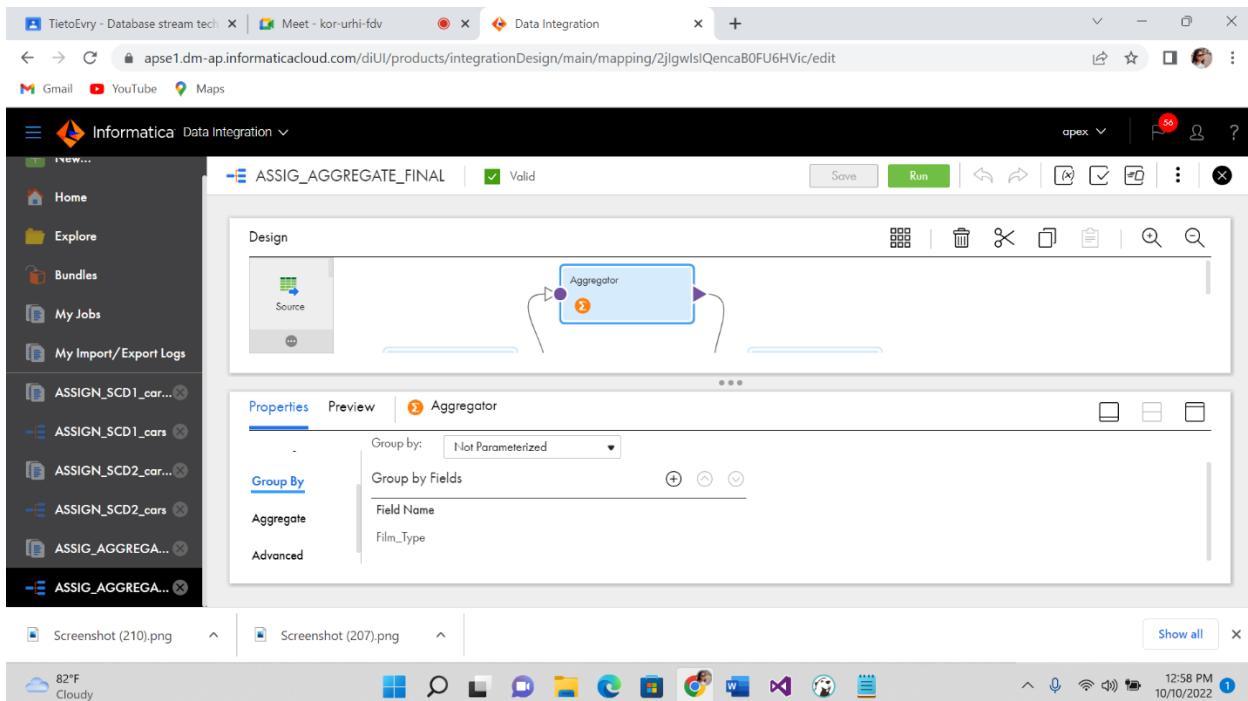
6. Create aggregate table based on the particular column(ex: Country code). Refer to the different data source from target system.

AGGREGATE

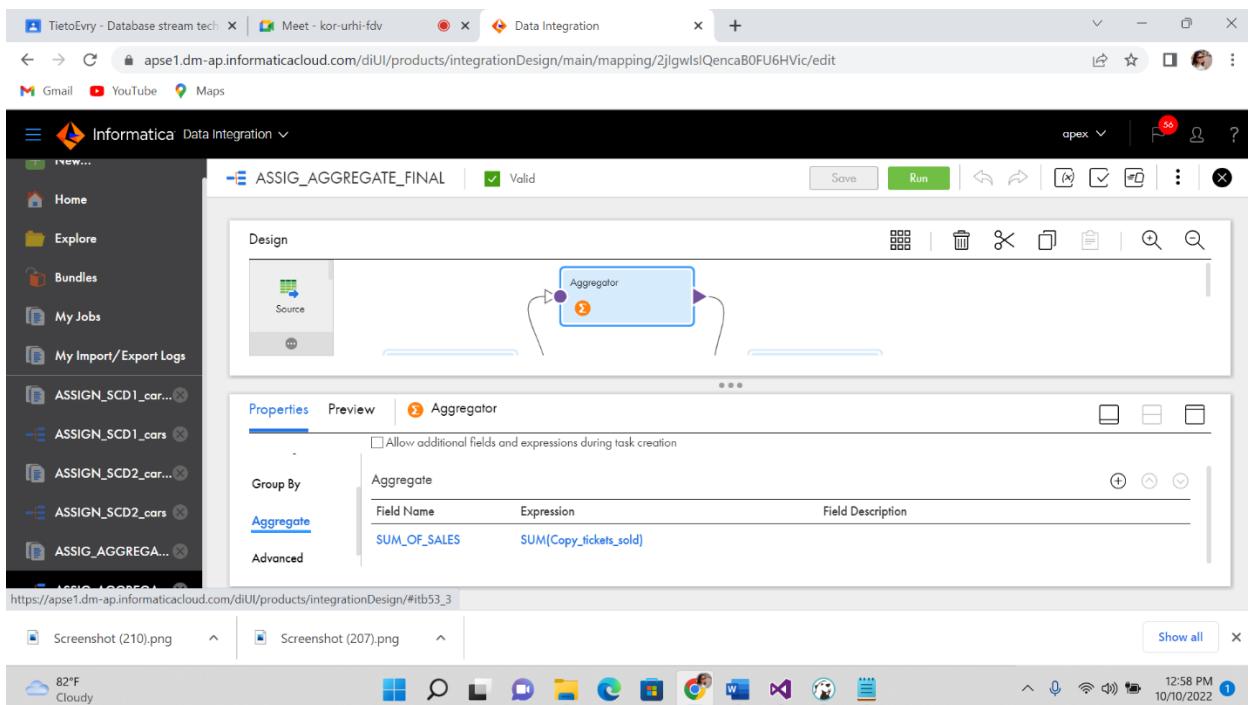
Source table = Cinema_ASSIGN_data



Group by = film_type



Aggregate operation used = $\text{SUM}(\text{copy_tickets_sold})$



Run the package.

Output Target table = TARGET_CINEMA_IICS_FINAL;

DBBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

<dlithe> queries.sql <shreya> Script-1... <shreya> SSIS.sql <shreya> Viewsss... Cinema_ASSIGN_data <shreya> IICS.sql <shreya> DDL/DML...

Database Navigator Projects

Enter a part of object name here

```

<dlithe> queries.sql
--select * from target_FA_CARS_SCD1;

alter table assign_iisc_cars_SCD1;
drop column tar_status;
-----+
SELECT * FROM T_FINAL_CARS_1000;

select * from Cinema_ASSIGN_data;

select * from Final_original_cars_data;

select DISTINCT film_type from TARGET_CINEMA_IICS;
select * from TARGET_CINEMA_IICS_FINAL;
select * from TARGET_CARS_IICS;

*UPDATE T_FINAL_CARS_1000

```

Results 1 ×

	Copy_ticket_price	Copy_ticket_use	capacity	Copy_date	Copy_month	Copy_quarter	Copy_day	SUM_OF_SALES
1	53,407	182 680	43,195	4	2	5	84,540	
2	80,000	19 168	43,225	5	2	5	5,905	
3	80,000	31 215	43,247	5	2	27	7,726	
4	99999997	60,000	9 194	43,230	5	2	10	32,056
5	00000001	120,000	218 279	43,192	4	2	2	30,254
6	98,571	42 552	43,218	4	2	28	27,380	
7	00000001	60,000	7 52	43,277	6	2	26	3,083

Save Cancel Script IST en Writable Smart Insert 351 : 1 [40] Sel: 40 | 1 10:03 PM 10/10/2022

Cloudy 82°F

7. Create data replication task (single table and FULL DB)

REPLICATION OF SINGLE TABLE.

STEPS TO SET THE VALUES AS SHOWN BELOW

TietoEry - Database stream tech | Meet - kor-urhi-fdv Data Integration

Gmail YouTube Maps

Informatica Data Integration

Edit Replication Task4

1 Source 2 Target 3 Field Exclusions 4 Data Filters 5 Schedule

Task Details

Task Name: Replication Task4

Location: shreya_iics_project

Description:

Source Details

Source Connection: shreya_sqlserver

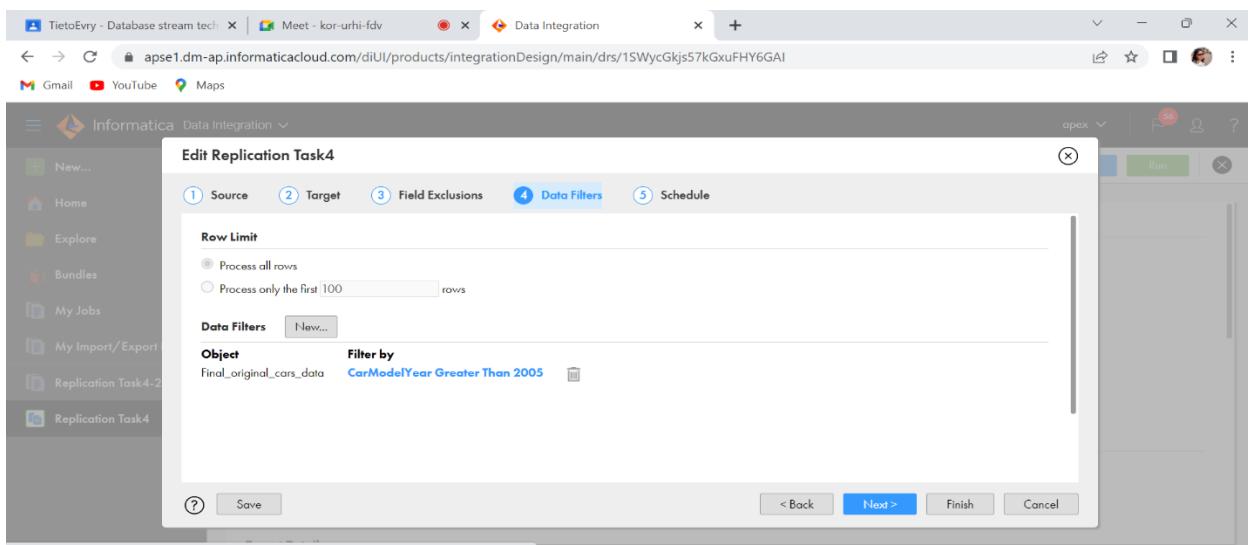
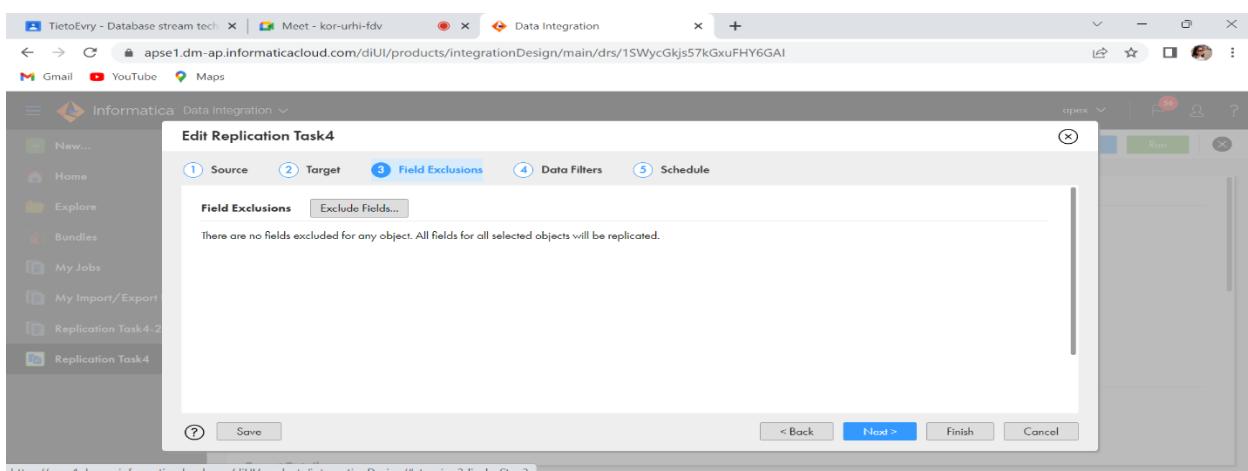
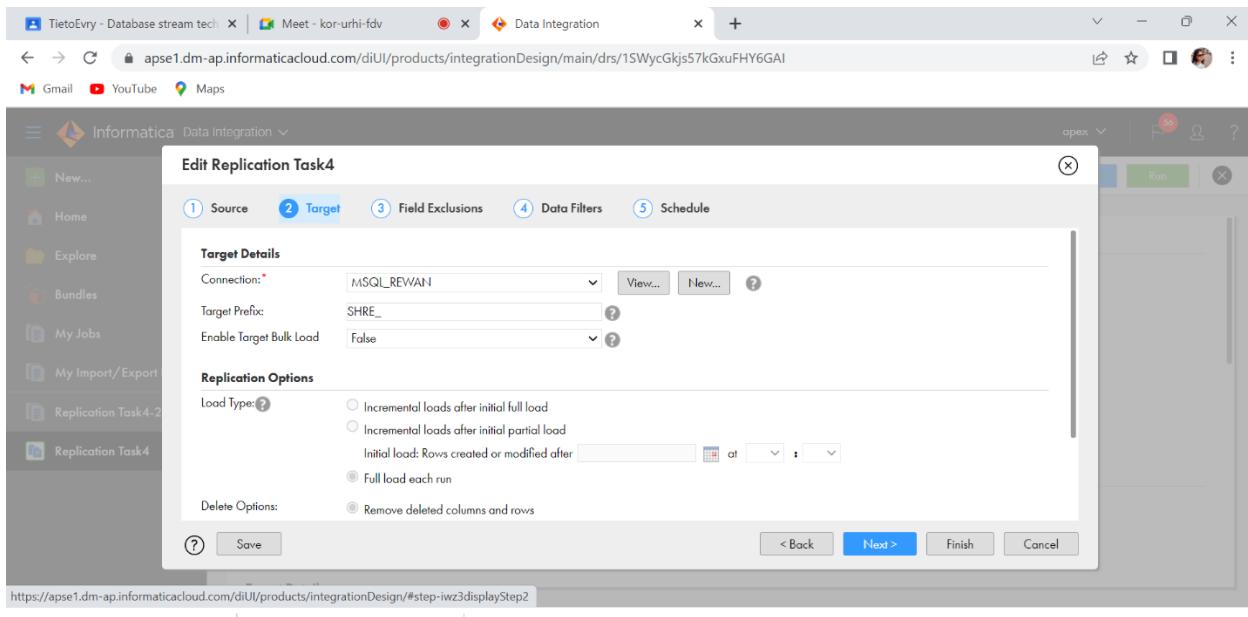
Objects to Replicate:

- All Objects
- Include Objects Select... Final_original_cars_data

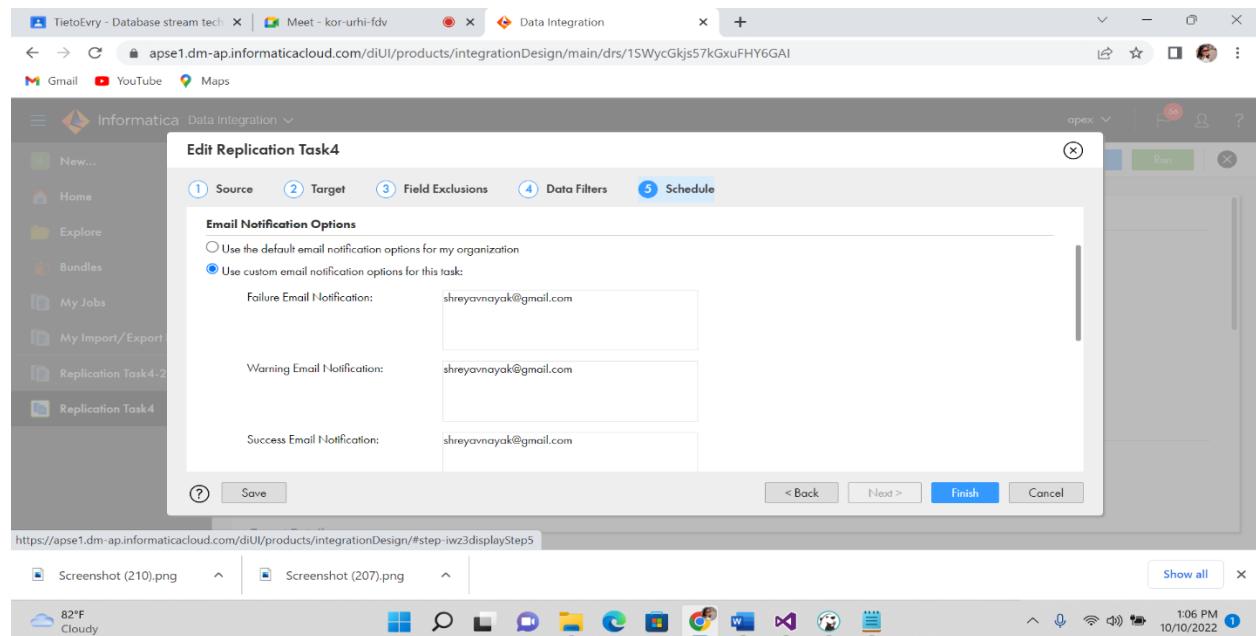
Save Next > Finish Cancel

Screenshot (210).png Screenshot (207).png Show all

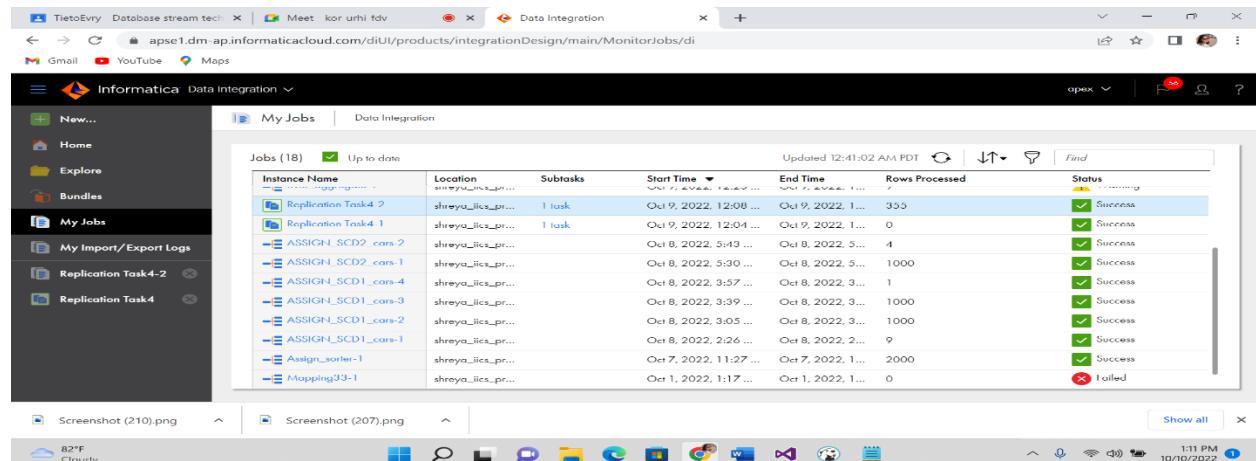
Cloudy 82°F 10:05 PM 10/10/2022



Set your email address for notifications.

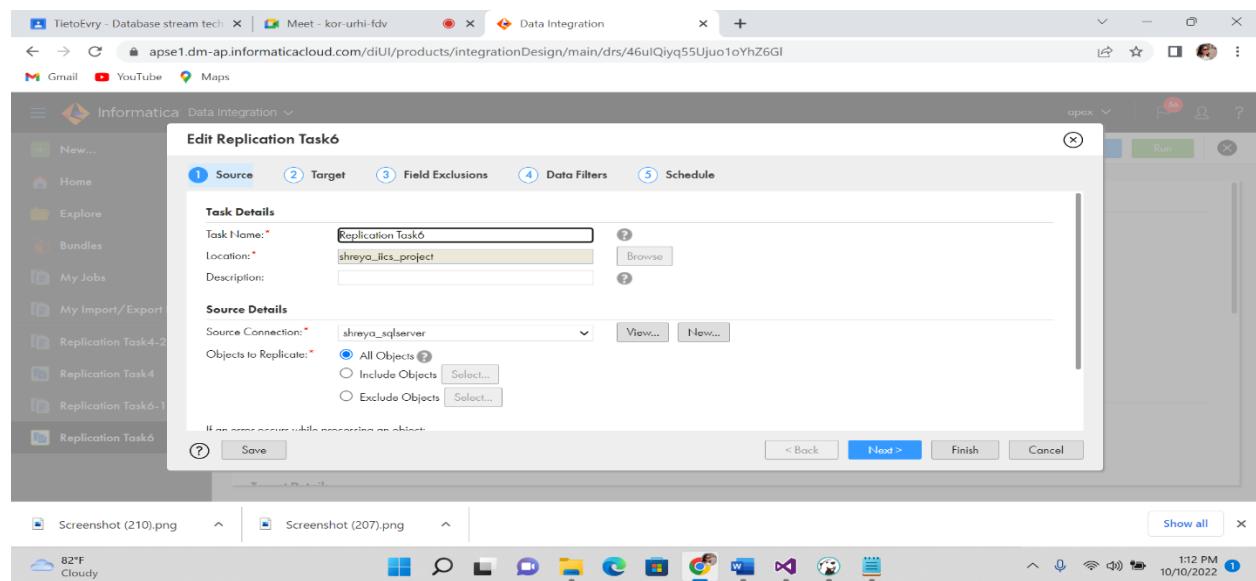


Run the package.



REPLICATION OF FULL DB

Check on 'All Objects' and set the field values accordingly.



Run the entire package.

34 tasks has successfully replicated from Shreya_db to dlithe_db.

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like New..., Home, Explore, Bundles, My Jobs, My Import/Export Logs, Replication Task4-2, Replication Task4, Replication Task6-1, and Replication Task6. The main area is titled 'My Jobs' and shows a table of 'Jobs (18)'. The table includes columns for Instance Name, Location, Subtasks, Start Time, End Time, Rows Processed, and Status. Most tasks show a status of 'Success' with green checkmarks. One task, 'ASSIGN_IICS_CARS_SC2', is marked as 'Warning' with a yellow exclamation mark. The table is updated at 12:45:30 AM PDT. Below the table, there are two screenshots labeled 'Screenshot (210).png' and 'Screenshot (207).png'. The system tray at the bottom right shows the date as 10/10/2022 and the time as 1:15 PM.

Dlithe_db

The screenshot shows a DBeaver 22.2.0 interface. The top menu bar includes File, Edit, Navigate, Search, SQL Editor, Database, Window, Help. The main area has tabs for Database Navigator, Projects, <shreya> Schema, and <shreya> SSL. The Database Navigator shows a tree view of objects in the 'shreya' database. The SQL Editor tab contains a script with various SQL statements, including SELECT queries and an UPDATE statement for 'T_FINAL_CARS_1000'. The Results tab shows a grid of data with columns 'Copy_ticket_id', 'Copy_ticket_price', and 'Copy_t'. The bottom status bar indicates the date as 10/10/2022 and the time as 1:18 PM.

Module 5: Big Picture of DB,SSIS,SSRS,IICS

Create a big picture of your understanding on SQL Server, SSIS, SSRS & IICS. You can use

<https://app.diagrams.net/> to create the picture.

BIG PICTURE OF DATABASE CONCEPTS

