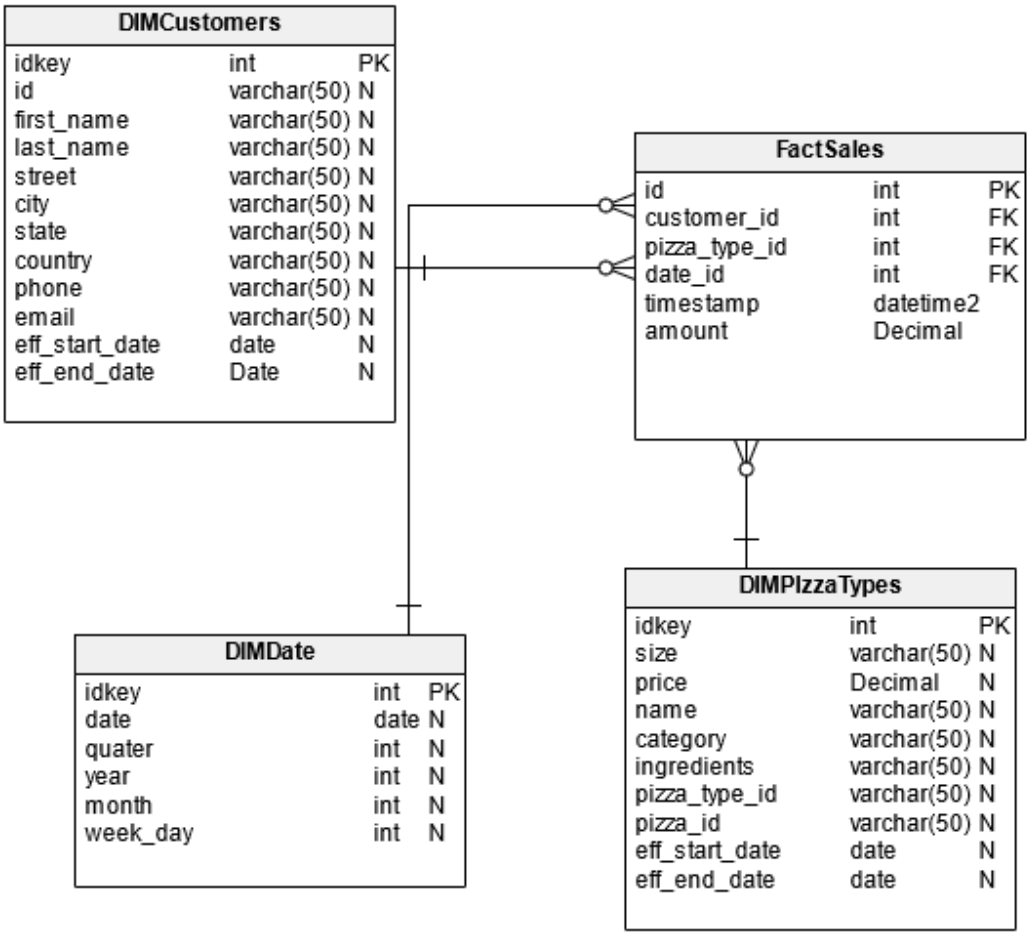
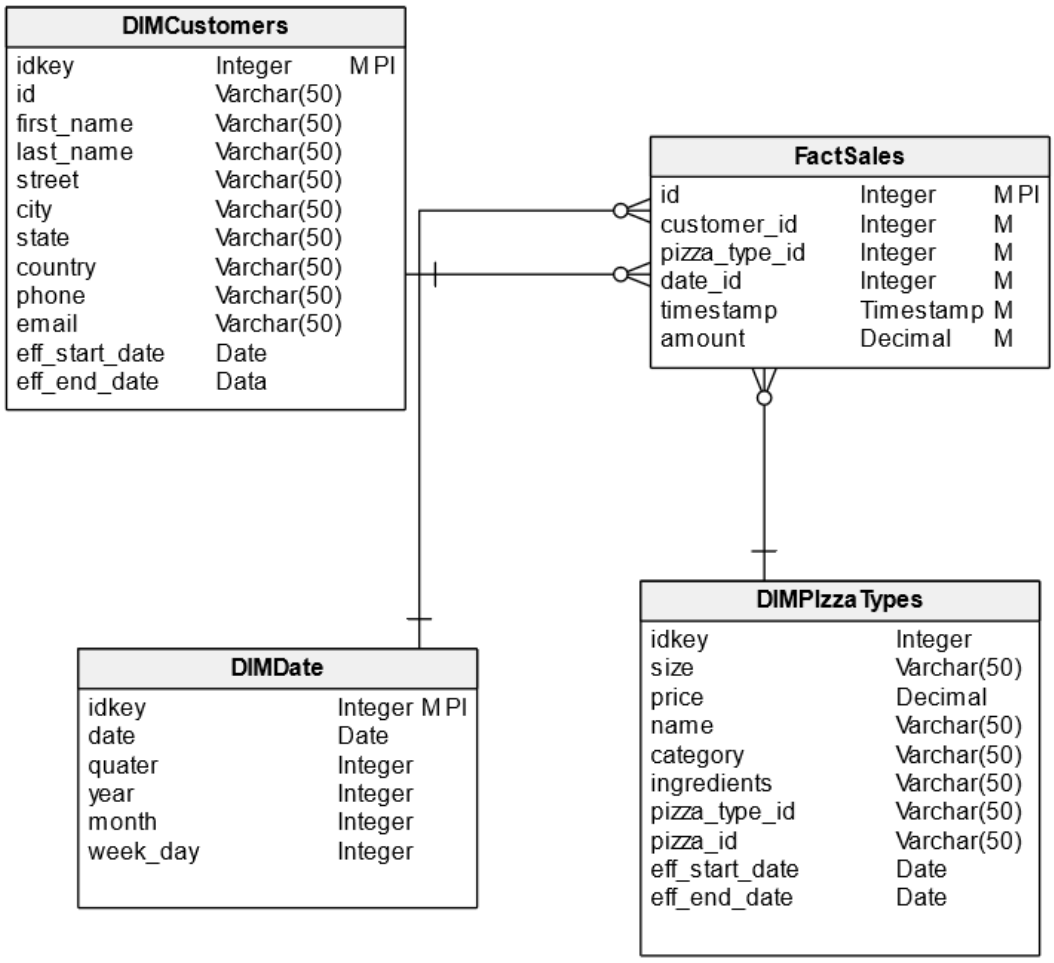
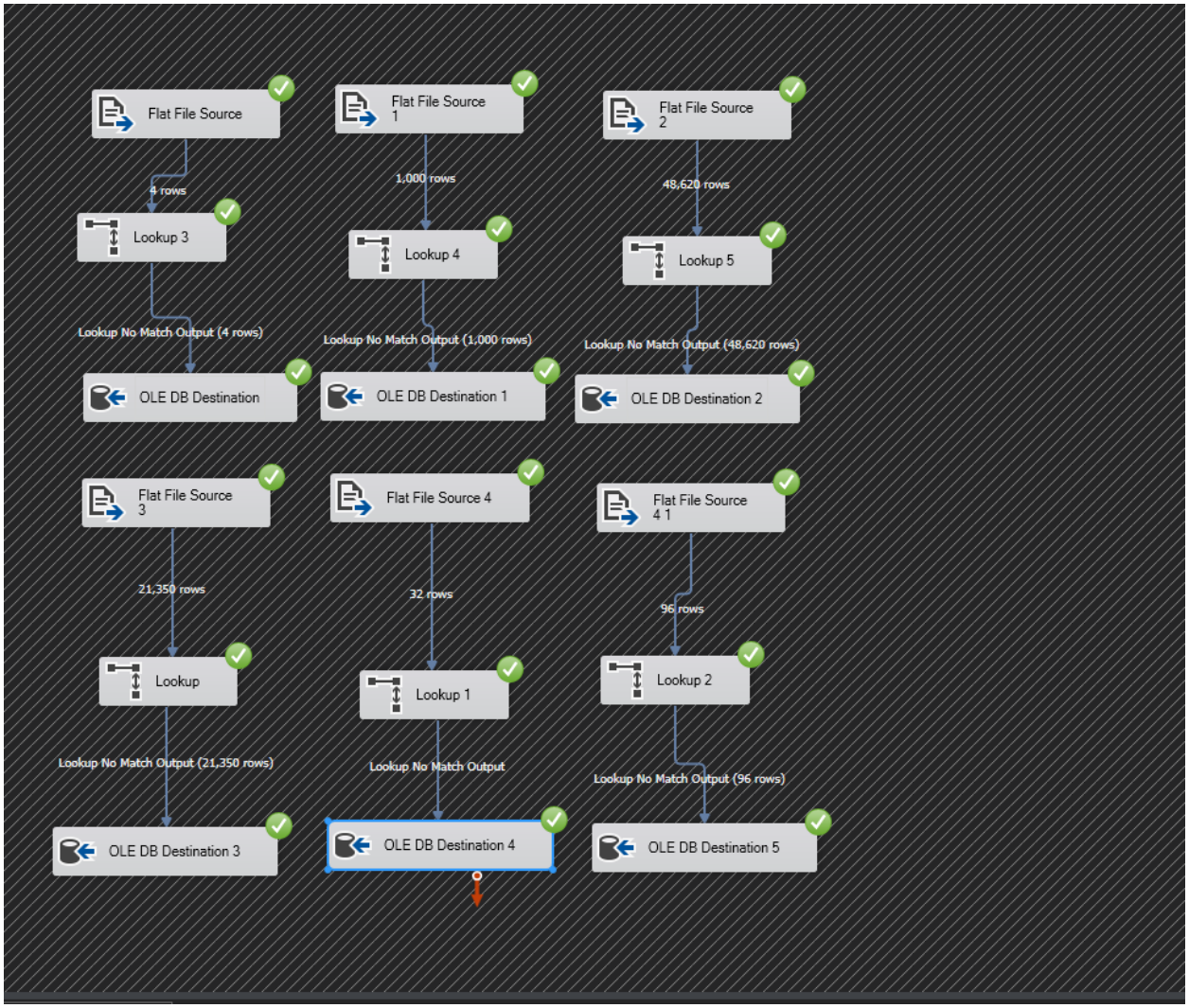
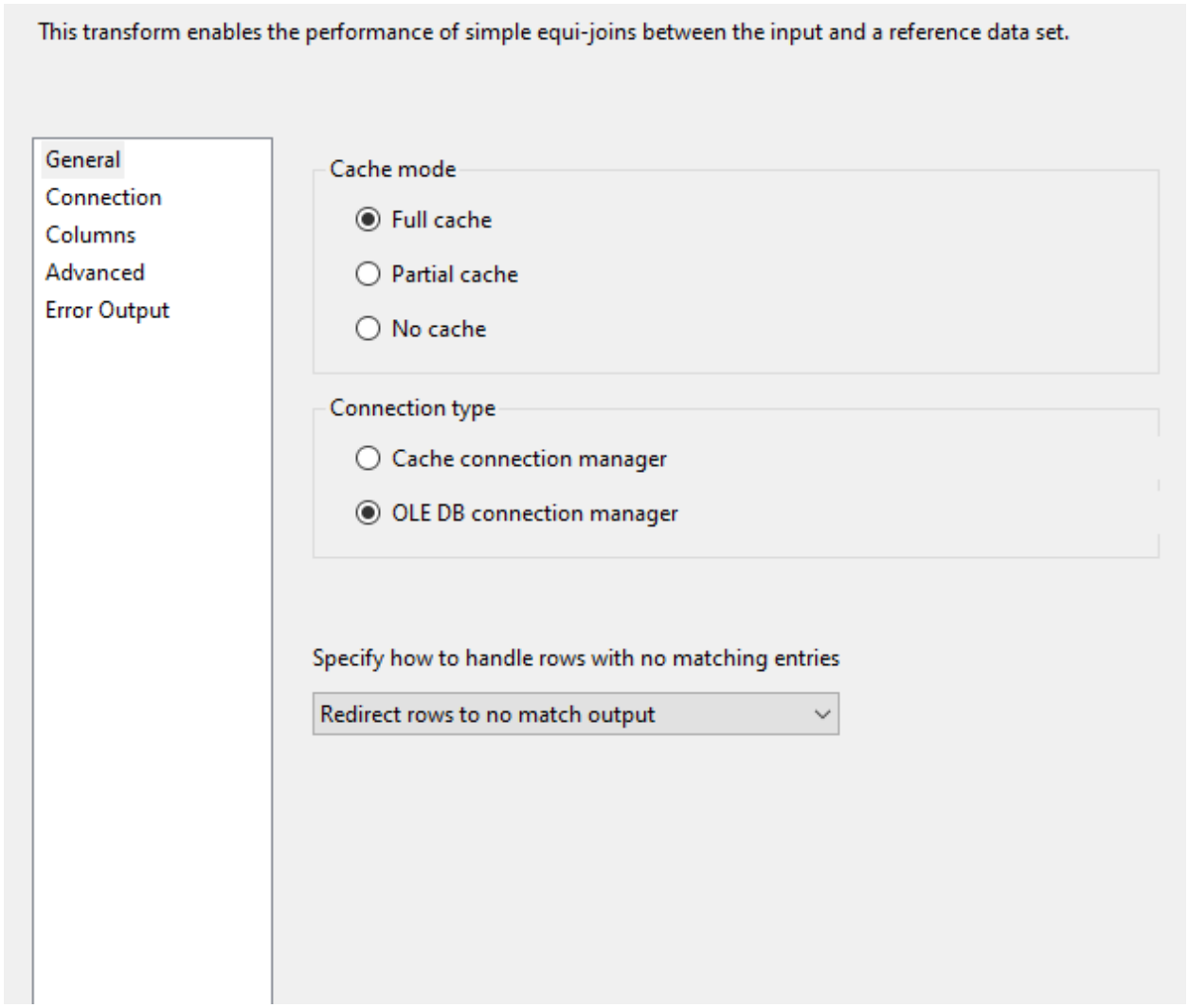
Ex1

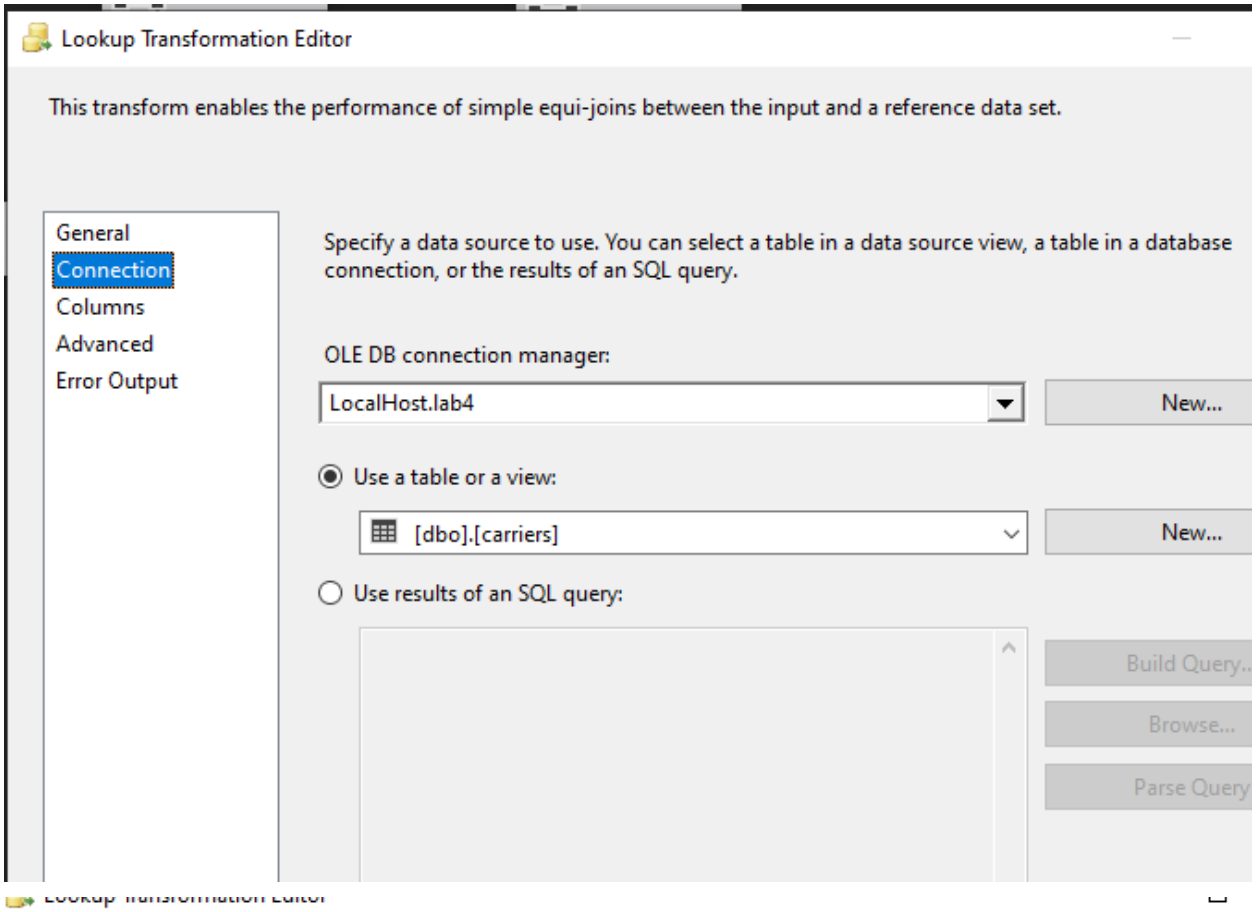

DIMCustomers
idkey int PK
id varchar(50) N
first_name varchar(50) N
last_name varchar(50) N
street varchar(50) N
city varchar(50) N
state varchar(50) N
country varchar(50) N
phone varchar(50) N
email varchar(50) N
eff_start_date date N
eff_end_date Date N
FactSales
id int PK
customer_id int FK
pizza_type_id int FK
date_id int FK
timestamp datetime2
amount Decimal
DIMPIzzaTypes
idkey int PK
size varchar(50) N
price Decimal N
name varchar(50) N
category varchar(50) N
ingredients varchar(50) N
pizza_type_id varchar(50) N
pizza_id varchar(50) N
eff_start_date date N
eff_end_date date N
DIMDate
idkey int PK
date date N
quater int N
year int N
month int N
week_day int N

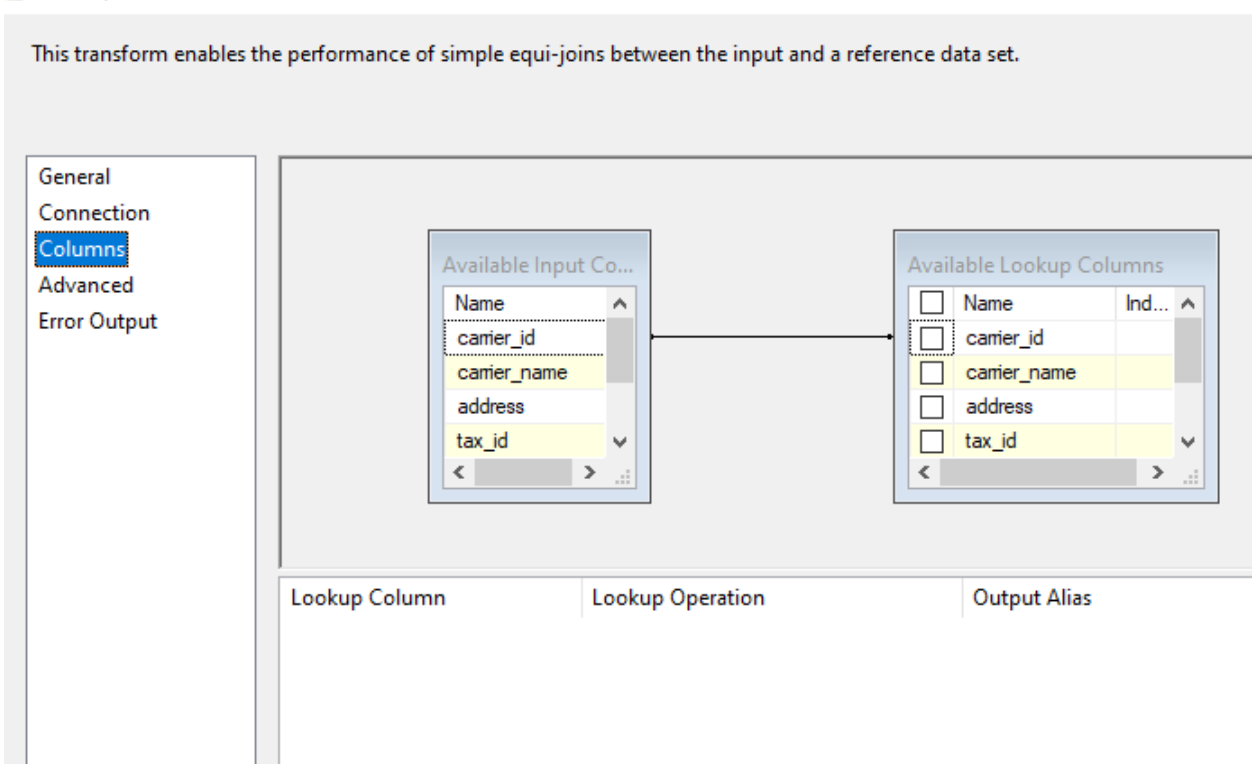

DIMCustomers
idkey Integer M PI
id Varchar(50)
first_name Varchar(50)
last_name Varchar(50)
street Varchar(50)
city Varchar(50)
state Varchar(50)
country Varchar(50)
phone Varchar(50)
email Varchar(50)
eff_start_date Date
eff_end_date Data
FactSales
id Integer M PI
customer_id Integer M
pizza_type_id Integer M
date_id Integer M
timestamp Timestamp M
amount Decimal M
DIMDate
idkey Integer M PI
date Date
quater Integer
year Integer
month Integer
week_day Integer
DIMPIzzaTypes
idkey Integer
size Varchar(50)
price Decimal
name Varchar(50)
category Varchar(50)
ingredients Varchar(50)
pizza_type_id Varchar(50)
pizza_id Varchar(50)
eff_start_date Date
eff_end_date Date

ex2

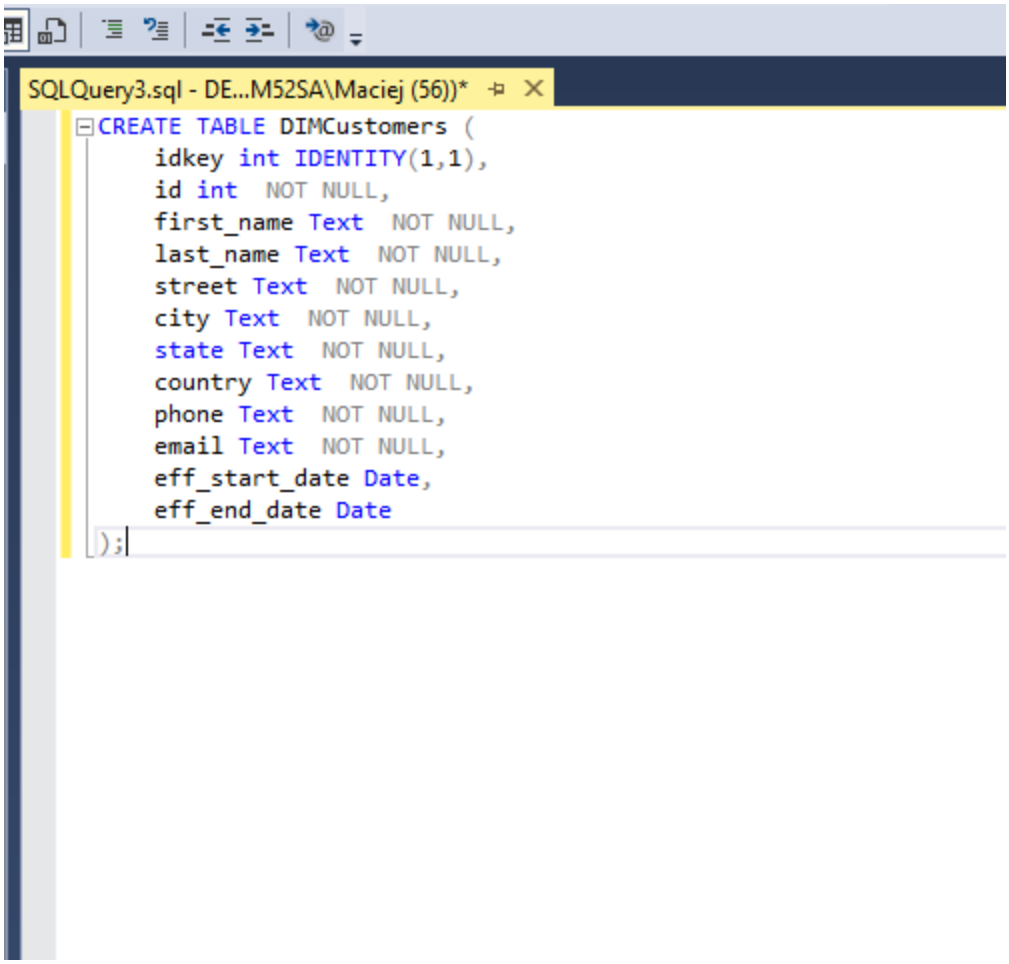

Flat File Source
Flat File Source 1
Flat File Source 2
4 rows
1,000 rows
48,620 rows
Lookup 3
Lookup 4
Lookup 5
Lookup No Match Output (4 rows)
Lookup No Match Output (1,000 rows)
Lookup No Match Output (48,620 rows)
OLE DB Destination
OLE DB Destination 1
OLE DB Destination 2
Flat File Source 3
Flat File Source 4
Flat File Source 4 1
21,350 rows
32 rows
96 rows
Lookup
Lookup 1
Lookup 2
Lookup No Match Output (21,350 rows)
Lookup No Match Output
Lookup No Match Output (96 rows)
OLE DB Destination 3
OLE DB Destination 4
OLE DB Destination 5

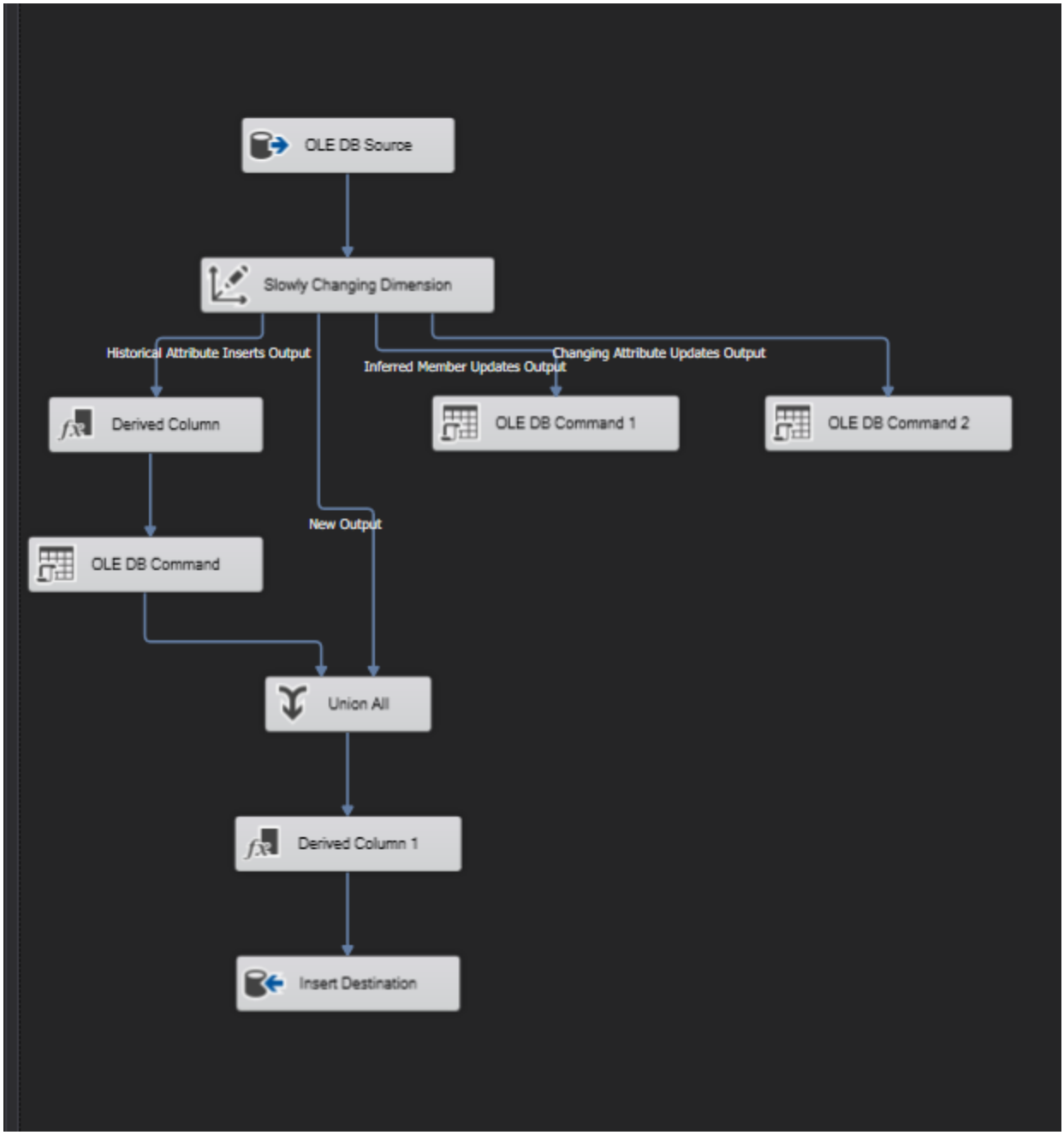

This transform enables the performance of simple equi-joins between the input and a reference data set.
General
Connection
Columns
Advanced
Error Output
Cache mode
Full cache
Partial cache
No cache
Connection type
Cache connection manager
OLE DB connection manager
Specify how to handle rows with no matching entries
Redirect rows to no match output


Lookup Transformation Editor
This transform enables the performance of simple equi-joins between the input and a reference data set.
General
Connection
Columns
Advanced
Error Output
Specify a data source to use. You can select a table in a data source view, a table in a database connection, or the results of an SQL query.
OLE DB connection manager:
LocalHost.lab4
New...
Use a table or a view:
[dbo].[carriers]
New...
Use results of an SQL query:
Build Query...
Browse...
Parse Query...

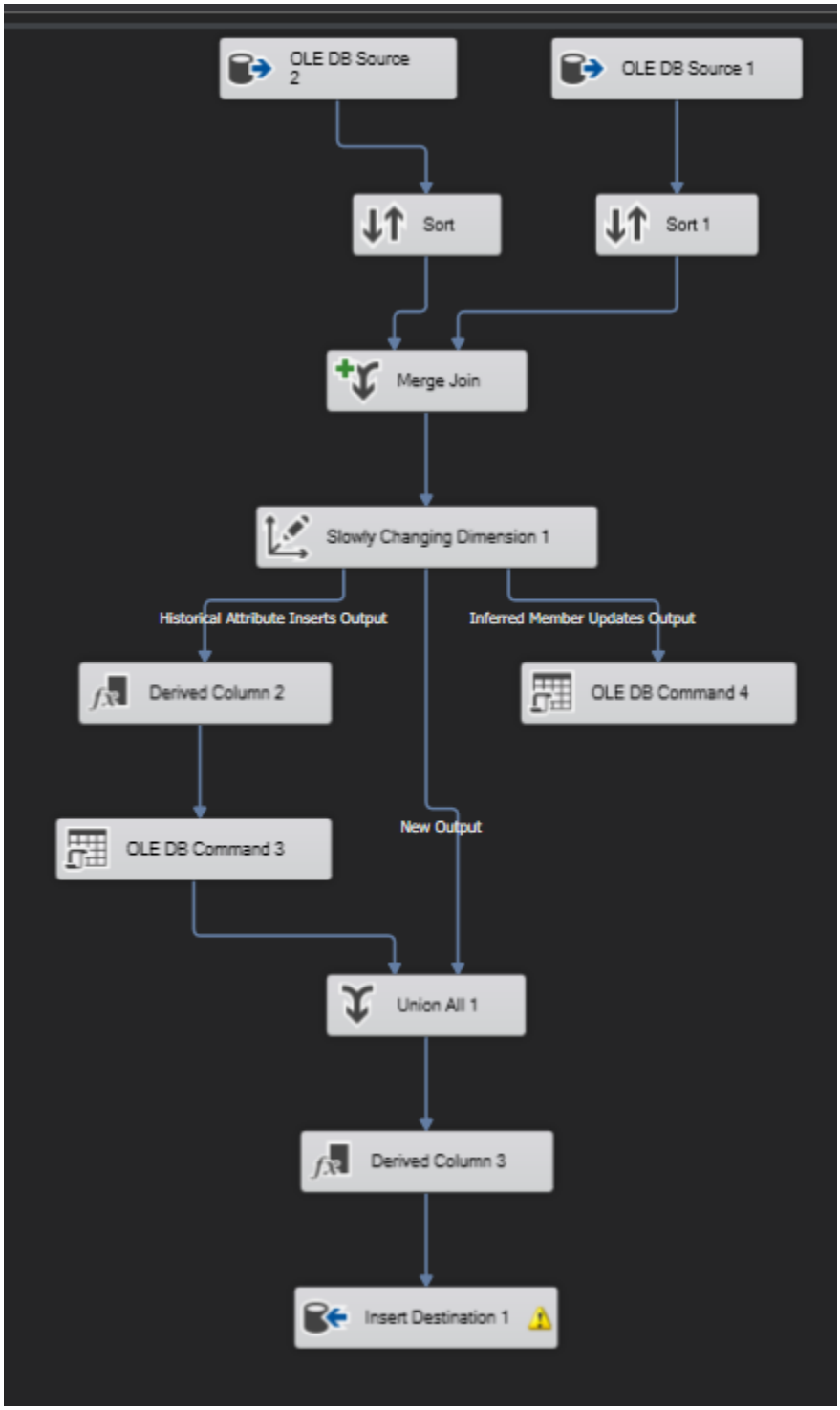

This transform enables the performance of simple equi-joins between the input and a reference data set.
General
Connection
Columns
Advanced
Error Output
Available Input Co...
Name
carrier_id
carrier_name
address
tax_id
Available Lookup Columns
Name
Ind...
carrier_id
carrier_name
address
tax_id
Lookup Column
Lookup Operation
Output Alias

Ex3


SQLQuery3.sql - DE...M52SA\Maciej (56))*
CREATE TABLE DIMCustomers (
idkey int IDENTITY(1,1),
id int NOT NULL,
first_name Text NOT NULL,
last_name Text NOT NULL,
street Text NOT NULL,
city Text NOT NULL,
state Text NOT NULL,
country Text NOT NULL,
phone Text NOT NULL,
email Text NOT NULL,
eff_start_date Date,
eff_end_date Date
);


OLE DB Source
Slowly Changing Dimension
Historical Attribute Inserts Output
Inferred Member Updates Output
Changing Attribute Updates Output
Derived Column
OLE DB Command 1
OLE DB Command 2
New Output
OLE DB Command
Union All
Derived Column 1
Insert Destination

Ex4

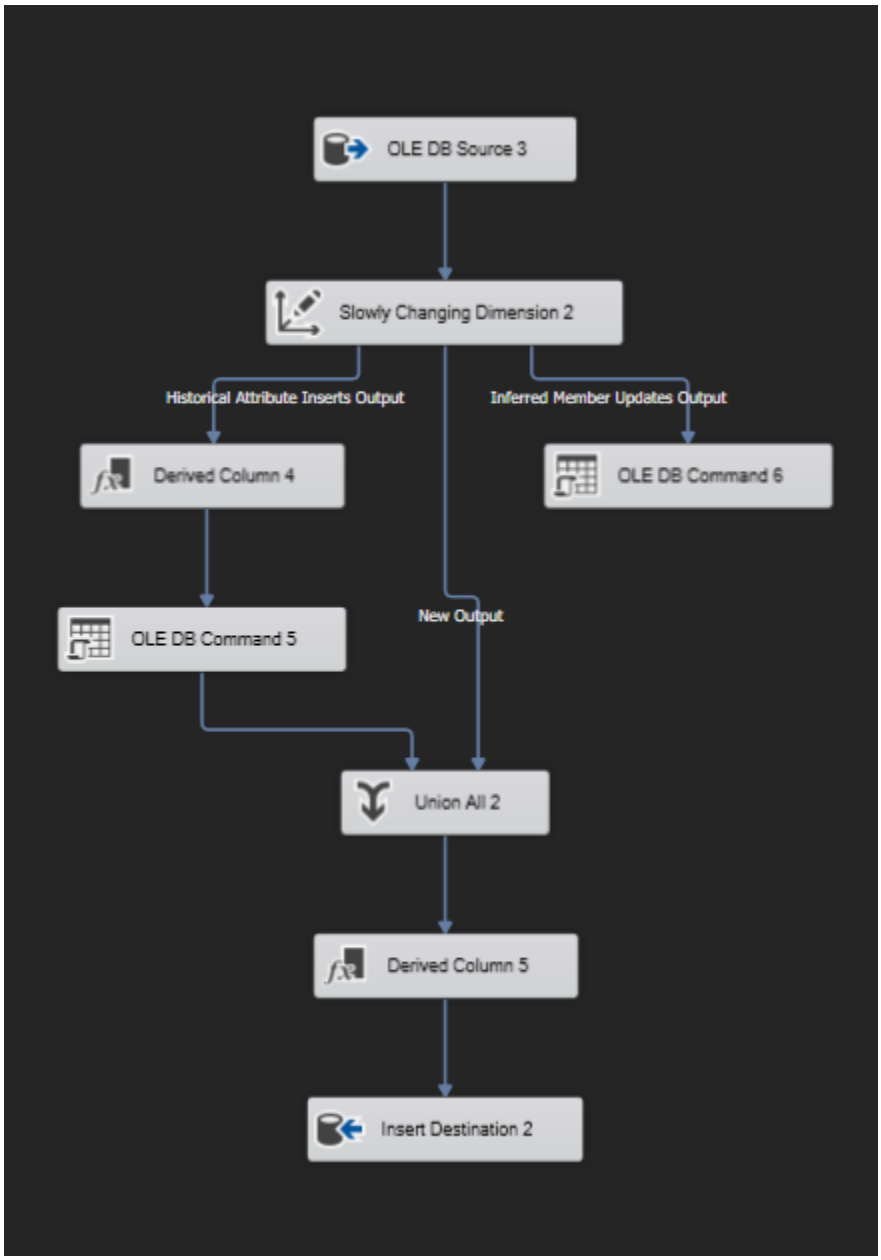

OLE DB Source 2
OLE DB Source 1
Sort
Sort 1
Merge Join
Slowly Changing Dimension 1
Historical Attribute Inserts Output
Inferred Member Updates Output
Derived Column 2
OLE DB Command 4
OLE DB Command 3
New Output
Union All 1
Derived Column 3
Insert Destination 1

Ex5

```
DECLARE @StartDate  date = '20100101';

DECLARE @CutoffDate date = DATEADD(DAY, -1, DATEADD(YEAR, 30, @StartDate));

WITH seq(n) AS
(
  SELECT 0 UNION ALL SELECT n + 1 FROM seq
  WHERE n < DATEDIFF(DAY, @StartDate, @CutoffDate)
),
d(d) AS
(
  SELECT DATEADD(DAY, n, @StartDate) FROM seq
),
src AS
(
  SELECT
    TheDate         = CONVERT(date, d),
    TheDay          = DATEPART(DAY,       d),
    TheDayName      = DATENAME(WEEKDAY,   d),
    TheWeek         = DATEPART(WEEK,      d),
    TheISOWeek      = DATEPART(ISO_WEEK,  d),
    TheDayOfWeek    = DATEPART(WEEKDAY,   d),
    TheMonth        = DATEPART(MONTH,     d),
    TheMonthName    = DATENAME(MONTH,     d),
    TheQuarter      = DATEPART(Quarter,   d),
    TheYear         = DATEPART(YEAR,      d),
    TheFirstOfMonth = DATEFROMPARTS(YEAR(d), MONTH(d), 1),
    TheLastOfYear   = DATEFROMPARTS(YEAR(d), 12, 31),
    TheDayOfYear    = DATEPART(DAYOFYEAR, d)
  FROM d
)
INSERT lab4_produtcion.dbo.DIMDate(date, quater, year, month, week_day)
SELECT TheDate as "date", TheQuarter as quater, TheYear as year, TheMonth as month,TheDayOfWeek as week_day FROM src option(maxrecursion 0);
```

Ex6

```
create table DIMCarrier(
idkey integer Identity(1,1),
[carrier_id] varchar(50)
      ,[carrier_name] varchar(50)
      ,[address] varchar(100)
      ,[tax_id] varchar(50)
      ,[contact_person] varchar(50),
      eff_start_date Date,
      eff_end_date Date
  )
```