# Report On Duplication Removal and Serialization

### 1. Creating Backup table:

```
--creating backup tables

select *
into #CustomerBKP
from SalesLT.Customer;

select *
into #SalesOrderHeaderBKP
from SalesLT.SalesOrderHeader
```

2. Finding duplicates value using windows functions:

storing data of customer into temp customer table partioned by EmaiAddress

```
;with cte as
(select ROW_NUMBER() over(partition by EmailAddress order by
CustomerID desc)
row_num,*
from SalesLT.Customer)
select *
into #TempCustomer
from cte;

--displaying duplicates result
select * from #TempCustomer
where row num>1;
```

	row_num	CustomerID	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	CompanyName	SalesPerson	EmailAddress	Pł
1	2	202	0	NULL	A.	Francesca	Leonetti	NULL	Two-Seater Bikes	adventure-works\jillian0	a0@adventure-works.com	64
2	2	345	0	Ms.	Abigail	J.	Gonzalez	NULL	Genial Bike Associates	adventure-works\jillian0	abigail0@adventure-works.com	1;
3	2	511	0	Mr.	Abraham	L.	Swearengin	NULL	Wheel Gallery	adventure-works\shu0	abraham0@adventure-works.com	9;
4	2	75	0	Ms.	Aidan	NULL	Delaney	NULL	Paint Supply	adventure-works\jillian0	aidan0@adventure-works.com	3!
5	2	659	0	Mr.	Ajay	NULL	Manchepalli	NULL	Shipping Specialists	adventure-works\jae0	ajay0@adventure-works.com	1
6	2	148	0	Mr.	Alan	NULL	Brewer	NULL	Lots of Bikes Storehouse	adventure-works\jillian0	alan1@adventure-works.com	49
7	2	595	0	Mr.	Alan	NULL	Steiner	NULL	Cycle Clearance	adventure-works\pamela0	alan4@adventure-works.com	79
8	2	408	0	Mr.	Alexander	J.	Berger	H	Odometers and Accessories Company	adventure-works\garrett1	alexander0@adventure-works.com	5
9	2	66	0	Mr.	Alexander	J.	Deborde	NULL	Neighborhood Store	adventure-works\garrett1	alexander1@adventure-works.com	39
10	2	147	0	Ms.	Alice	NULL	Clark	NULL	Local Hardware Factory	adventure-works\jillian0	alice1@adventure-works.com	2:
												-

### 3. Checking duplicates values

```
--checking if there is duplicates
   from SalesLT.CustomerAddress as ca
       inner join #TempCustomer tc on
       tc.CustomerID=ca.CustomerID
   33
       where tc.row_num > 1;
   34
   35
   36 ∃select count(*)
       from SalesLT.SalesOrderHeader as soh
       join #TempCustomer as to on tc.CustomerID=soh.CustomerID
   38
   39
       where tc.row_num > 1
) %
Results Messages
  (No column name)
```

Checking duplicates values in the SalesOrderHeader and CustomerAddress tables before deleting it.

### 4. Deleting data from temp table

```
43
        --deleting duplicates data from temp tables
   44
   45 Delete from #TempCustomer
   46
        where row_num > 1;
   47
        --checking if there is dup value after deletion
   48
   49 select count(*) from #TempCustomer
   50
        where row_num > 1;
   51
   52
1% ▼ ∢
Results Messages
  (No column name)
  0
```

## **Serialization**

5. Creating temporary customer address tables

```
54
     55
            --creating temporary customeraddress table
     56
         ⊟select *
     57
           into #TempCustomerAddress
     58
           from SalesLT.CustomerAddress;
     59
           select * from #TempCustomerAddress;
     60
     61
     62
10 % ▼ ◀
■ Results Messages
    CustomerID AddressID AddressType rowguid
                                                                               ModifiedDate
    29485
                1086
                           Main Office
                                       16765338-DBE4-4421-B5E9-3836B9278E63
                                                                               2007-09-01 00:00:00.000
     29486
                621
                           Main Office
2
                                       22B3E910-14AF-4ED5-8B4D-23BBE757414D
                                                                               2005-09-01 00:00:00.000
3
     29489
                1069
                           Main Office
                                       A095C88B-D7E6-4178-A078-2ECA44214801
                                                                               2005-07-01 00:00:00.000
    29490
                887
4
                           Main Office
                                       F12F1702-D897-4035-B614-0FF2C72168A9
                                                                               2006-09-01 00:00:00 000
    29492
                618
                           Main Office
                                       5B3B3EB2-3F43-47ED-A20C-23697DABF23B
                                                                               2006-12-01 00:00:00.000
6
    29494
                537
                           Main Office
                                       492D92B6-31AF-47EA-8E00-7C11C7CCC20D
                                                                               2005-09-01 00:00:00.000
     29496
                1072
                           Main Office
                                       0A66B0F3-24BC-4148-9661-26E935CEC99A
                                                                               2007-09-01 00:00:00.000
8
     29497
                889
                           Main Office
                                       7E0B56FD-7324-4898-BEDB-2F56A843BB0F
                                                                               2005-07-01 00:00:00.000
    29499
                                       C90CB0C3-976A-4075-A2B9-13136F4F1A92
                527
                           Main Office
                                                                               2006-09-01 00:00:00.000
    29502
                           Main Office
                                       8ACB1C6A-7CDF-417B-AFD5-9F4C642F3C7E
                                                                               2007-07-01 00:00:00.000
                                       BE00FFC6-194B-44E9-A129-DFBEB8F1301F
11
    29503
                32
                           Shipping
                                                                               2006-08-01 00:00:00.000
                                        00110000 1000 1100 0000 101010000000
Query executed successfully
                                                                   LAPTOP-U9U11BTI\SQLEXPRESS ... LAPTOP-U9U11BTI\Nandan.
```

6. Creating temp table to store old customerID and assign new Id.

```
64 ⊟--creating temporary table that store old customer id and new assigned id
     65
     66
           --creating table
     67 create table #IDMAP(
          ID int identity,
          CustomerID int,
     69
          ModifiedDate datetime
     70
     71
     72
     73
           --inserting data
          insert into #IDMAP
     74
           select CustomerID, ModifiedDate from #TempCustomer order by ModifiedDate;
     75
     76
     77
           select * from #IDMAP;
     78
l10 %
ID CustomerID ModifiedDate
       30052
                  2005-07-01 00:00:00.000
    1
        29824
                  2005-07-01 00:00:00.000
3
    3
        29747
                  2005-07-01 00:00:00 000
        29533
                  2005-07-01 00:00:00.000
    5
        515
                  2005-07-01 00:00:00.000
        29596
                  2005-07-01 00:00:00.000
    6
        29497
                  2005-07-01 00:00:00.000
                  2005-07-01 00:00:00.000
    8
        204
Query executed successfully.
                                                            LAPTOP-U9U11BTI\SQLEXPRESS ... LAPTOP-U9U11BTI\Nandan..
```

7. Updating customerId column in #tempcustomer address by id column

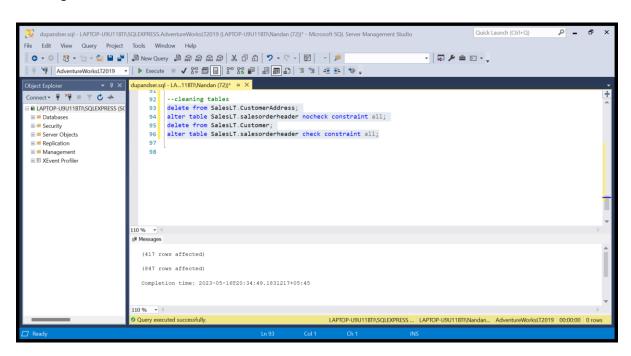
```
80
     81
       --column in #IDMAP table
 82
 83
  84
     update #TempCustomerAddress
       set CustomerID = (select ID from #IDMAP where
  85
       #IDMAP.Cu
                                                  ress.CustomerID);
  86
                     column CustomerID(int, not null)
  87
       select * from #TempCustomerAddress;
 88
 89
 90
 91
 92
6 + 4
esults Messages
 CustomerID
           AddressID
                     AddressType
                                                                     ModifiedDate
                                rowguid
 437
            1086
                      Main Office
                                 16765338-DBE4-4421-B5E9-3836B9278E63
                                                                     2007-09-01 00:00:00.000
 436
            621
                      Main Office
                                 22B3E910-14AF-4ED5-8B4D-23BBE757414D
                                                                     2005-09-01 00:00:00.000
 438
            1069
                     Main Office
                                                                     2005-07-01 00:00:00.000
                                 A095C88B-D7E6-4178-A078-2ECA44214801
 439
            887
                     Main Office
                                 F12E1702-D897-4035-B614-0FE2C72168A9
                                                                     2006-09-01 00:00:00.000
 440
            618
                     Main Office
                                 5B3B3EB2-3F43-47ED-A20C-23697DABF23B
                                                                     2006-12-01 00:00:00.000
 136
            537
                     Main Office
                                 492D92B6-31AF-47EA-8E00-7C11C7CCC20D
                                                                     2005-09-01 00:00:00.000
 384
            1072
                      Main Office
                                 0A66B0F3-24BC-4148-9661-26E935CEC99A
                                                                     2007-09-01 00:00:00.000
 7
            889
                     Main Office
                                 7E0B56FD-7324-4898-BEDB-2F56A843BB0F
                                                                     2005-07-01 00:00:00.000
```

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LADTO

#### 8. Cleaning tables

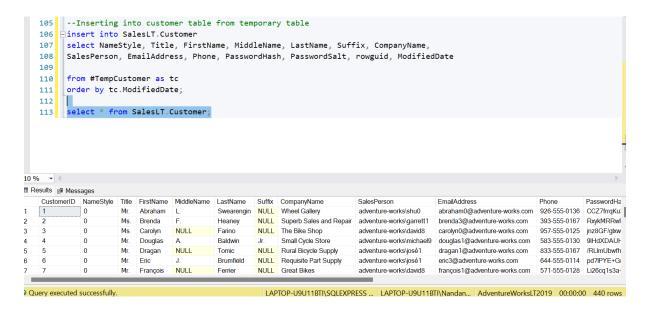
ieny executed successfully



9. Resetting identity column

```
--resetting identity column dbcc checkident ('SalesLT.Customer',reseed,0);
```

10. Inserting into customer column from temporary table



#### 11. Inserting into customeraddress table to tempcustomeraddress table

```
--Inserting into customerAddress table from temporary table
   116
   117
        insert into SalesLT.CustomerAddress
           select CustomerID, AddressID, AddressType, rowguid, ModifiedDate
   118
   119
           from #TempCustomerAddress;
   120
           select * from SalesLT.CustomerAddress;
   121
     - (
0 %
Results Messages
    CustomerID
               AddressID
                         AddressType
                                     rowguid
                                                                             ModifiedDate
    1
               1074
                         Main Office
                                     EA85B354-01CB-48B5-A60B-DBE990CF7661
                                                                             2005-07-01 00:00:00.000
    2
               556
                          Main Office
                                     35BCA4AD-180B-46E9-9578-0C9FC3202E13
                                                                             2005-07-01 00:00:00.000
    3
               895
                         Main Office
                                     ED778965-8FD3-407C-9267-440A6C9E5F3D
                                                                             2005-07-01 00:00:00.000
    4
               801
                          Main Office
                                     CD6229C0-A0FA-4A48-B4E1-D1C02437CAA8
                                                                             2005-07-01 00:00:00.000
    6
               458
                          Main Office
                                     F304C494-8B65-41A7-A144-853FF6DCF91C
                                                                             2005-07-01 00:00:00.000
    7
                          Main Office
                                     7E0B56FD-7324-4898-BEDB-2F56A843BB0F
               889
                                                                             2005-07-01 00:00:00.000
    9
               517
                         Main Office
                                     ABDAAE4A-7F6D-4192-A162-495646CDA3CB
                                                                             2005-07-01 00:00:00.000
```

5A372EB5-2A48-43D3-ADE1-A67DEDEA0E20

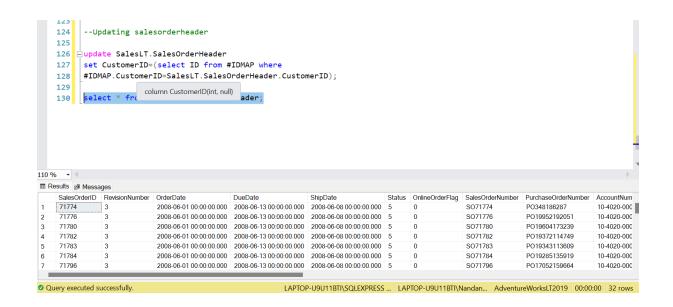
2005-07-01 00:00:00.000

#### 12. Update salesOrderheader

1021

Main Office

10



### 13. Drop backup and temp tables

```
--Dropping temporary tables and backuptables
drop table #TempCustomer
drop table #TempCustomerAddress
drop table #IDMAP
drop table #CustomerBKP
drop table #SalesOrderHeaderBKP
```