

* Data Profiling

New Project → Integration service project → drag & drop 'Data Profiling Task'



Quick Profile ←

destination file

(Storing Data Profiling information)

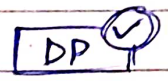
— .xml



Give connection



Select table for data profiling → Execute data profiling →



double click & open 'Profile Viewer'

* Simple ETL Transformation

SSMS → Create table → columns

dbo.stud

StudID int

name nvarchar(50)

create a → studID, name

.csv file

1, xyz

2, abc

SQL Server → New project → Integration → drag & drop

Data Tools

service

Data Flow Task



double click ← drag & drop ← double click
& select the flat file source

.csv file we

created

→ drag & drop → connect gray arrow
Data Conversion

from flat file source
to data conversion

→ double click Data conversion → tick the boxes → change the output alias → change the data type



drag & drop Derived column ← click OK ← studID - 4-byte signed int name - unicode string [DT_WSTR]



connect Data Conversion with Derived column (grey arrow) → double click → create derived columns



		col-name	Expression
drag & drop	←	click	←
OLE DB		OK	
		derived_studID	Data-converted - studID
		derived-name	UPPER(^{data converted} <u>name</u>)



Destination



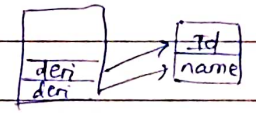
connect it



double

drag & drop from columns & string functions resp.

click → select connection → select table dbo.stud → change Mappings



save & execute the transformation ← click OK

* Loopup Transformation

- check if two tables are matching or not.

case 1

No
match
output

create table → insert Some → create table
dbo.books records dbo.bookshistory
in SSMS with same structure

↓

drag & drop ← Integration ← new project
Data flow task services project

↓

double click → drag & drop → new connection → select
OLE DB Source OLE DB Source dbo.books

↓

- Full cache ← connect ← drag & drop ← OK
- OLE DB conn. Lookup
manager

- redirect row to → in connection → in columns
no match output Tab in lookup Tab in lookup
Select connect the
dbo.bookshistory BookID
(destination table)

↓

select ← connect ← drag & drop ← OK
Lookup No OLE DB Destination
Match

Output → OK → double click → select table
OLE DB Destination dbo.bookshistory

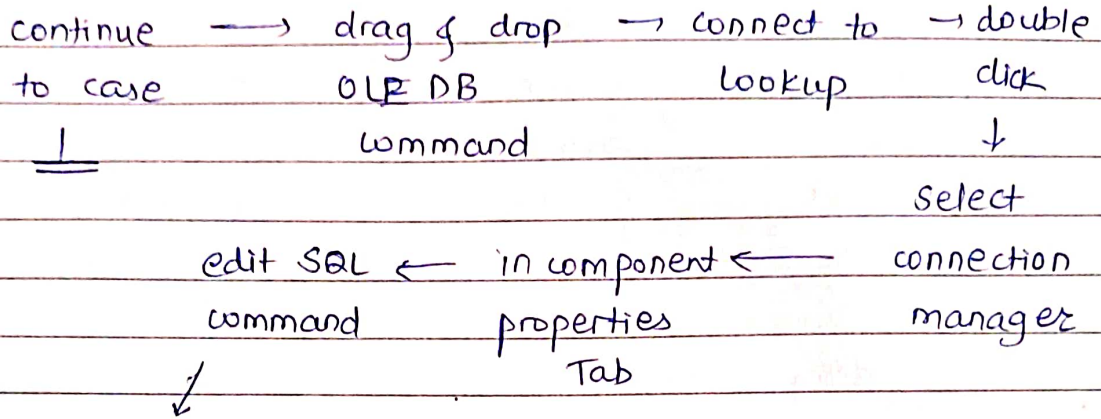
↓

execute ← OK

* LookUp Transformation

Case 2

match
output



```
UPDATE [AdventureWorks].[dbo].[bookshistory]
SET
    [Book Title] = ?,
    [Book Price] = ?
WHERE [BookID] = ?;
```



in column → execute
mapping tab



* Slowly Changing Dimensions

