

Experiment No-2

Demonstration of data Profiling using SQL Server Integration Services.

Uses of data Profiling → used to identify Problem in data
→ help in assessment of data quality
→ help to understand content, structure, relationships, etc
→ in deep understanding data in table

→ (Product)[Product] / [dbo][DimProduct]

① Data Profiling Task drop & drag

→ Click on it → Create destination file → new file name ^{File} mydpt.xml
then click quick Profile option → new Connection (SQLSERVER2008SERVER2)

Connect to db Select db Adventureworks2012 then
test Connect Right side option
then ok click

then Select table * u get

then execute then double click then open open Profile
viewer
option

Exp 4

East Step click on
[dbo].[stud] table to
see all record

Simple ETL Transformation

step → create a table → dbo.student

column Name	
studID	int
Name	nvarchar(50)

we have ~~converted~~ smaller
to upper

In PC create a sl.csv file store this →

Stud_id, Name
1, xyz
2, abc

Start SQL server data tools

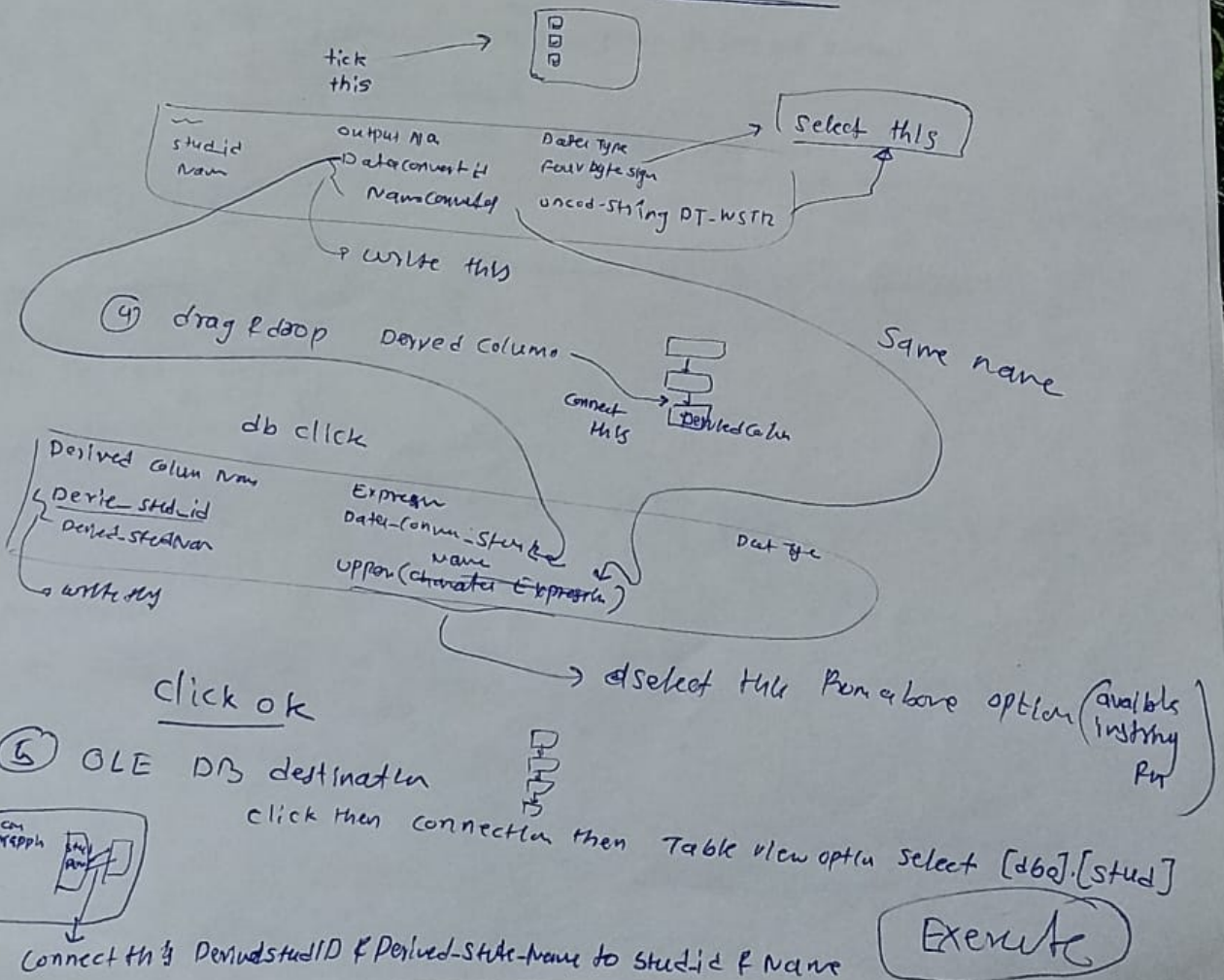
File → new Project

① drag & drop → data Flow Task then double click

② from other sources → drag & drop → Flat File source

then choose your sl.csv file, also choose right extension for it

③ drag & drop from common → data conversion



Exp-5

Lookup Transformation

- lookup transformation means to match two tables, and to take decision that both tables matches or not.
[Fetch From source to destination]

① Create a table

```
create table dbo.books {
    BookID int primary key clustered,
    [Book Title] NVARCHAR (100),
    [Book Price] money
}
```

```
Insert into dbo.books values
(1, 'SQL', 1500)
(2, 'Oracle', 700),
( )
```

```
create table dbo.booksHistory {
```

3

② drag & drop Data Flow task double click

③ OLE DB Source → new connection then ok then select book [dbo.books] ok

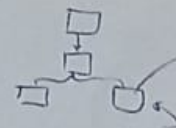
④ Lookup drag & drop then connect ^{general} [Select Redirect rows to ^{no match} output] ok
[Select destination table dbo.booksHistory
Bookid connect only] ok

⑤ drag & drop OLE DB destination [connect with lookup no match]
select destination only
all set (do all above 4 step connect all already)

Then Execute it

matching record updated
Case - 2

drag & drop OLE DB command



db click select db then
go on Connection write SQL
command Set all as ?
ok click

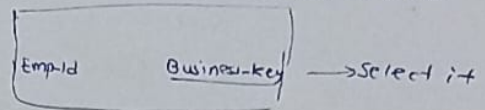
Execute

```
UPDATE [Adventureworks2012].[dbo].[booksHistory]
SET
    [Book Title] = ?,
    [Book Price] = ?
WHERE [BookID] = ?
```

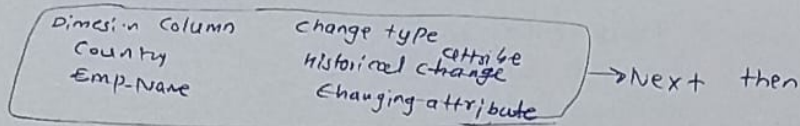
Ex-6

Slowly changing Dimension

- ① drag & drop data Flow task ^{double} click
- ② OLE DB Source (configure it connection, select [dbo].[test-stage])
- ③ slowly changing Dimension → Click → select destination [test] [dbo] [test]



next → next



click

Use start End date to identify

start date

start_date

end

End_date

Select this

Variable to set value

System Container startTimer

Next tick box

☒ Enable incremental number support

next → finish

Execute

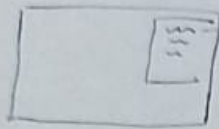
Insert Deletion

When we insert new record old record is also saved

Exp-8

Cube Creation & Analysis

- SQL server management → ^{click then} select your db → ^{device click} AdventureworksDB2012
- Open data ware tool → select new Project then Select Analysis Services ^{Temp}



- Click on data Sources
 - add server name ^{select option}
 - connect to db → AdventureworksDB2012 → Click Next
 - write username & password → select Inherit next Finish

② Data Source Views

- new Data Source view → next
- drag & drop → FactInternetSales[dbo] ^{add Related Tables}
 - FactInternetSales[dbo]
 - DimSales Territory[dbo]
 - DimProduct[dbo]
 - DimDate
 - DimCustomer[dbo]
- related tables remove remaining ^(-remove FactInternetSales[dbo])
- Click Next → Finish

- cubes → next → click on suggest → next → Finish

④ Dimension → click on Dim Date

- select Final year drag & drop
- Dim Sales Territory
 - sales Territory Region ^{drag & drop}
- Dim Product
 - English Product Name ^{drag & drop}

I can Find out sales From region, ^{Product} name, year Point of view



Click on Project name

then → Deployment option

Set your server name ^{write this in place of local name}

Right click

Now Select Buid

(we can see on left bottom success)

Then select Deploy

Now Click on Cube → click on this

Right click → AdventureworksDB2012 then Select Browse option

Click on Measure

→ sales amount option

then den customer option → Dimension

Territory

Sales Territory Region

Equal

Australia