# How use Pivot Query in SQL server

### 1-create table student

#### Create sudent code

```
CREATE TABLE [dbo].[st1](
    [stdid] [int] NULL ,
    [leid] [int] NULL,
    [lenumber] [int] NULL,
    [term] [int] NULL)
```

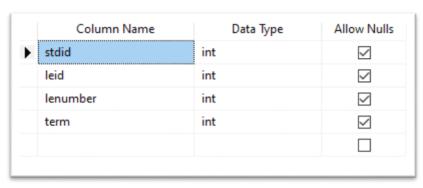
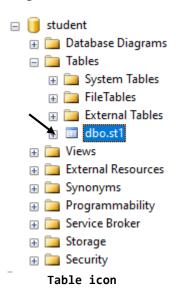


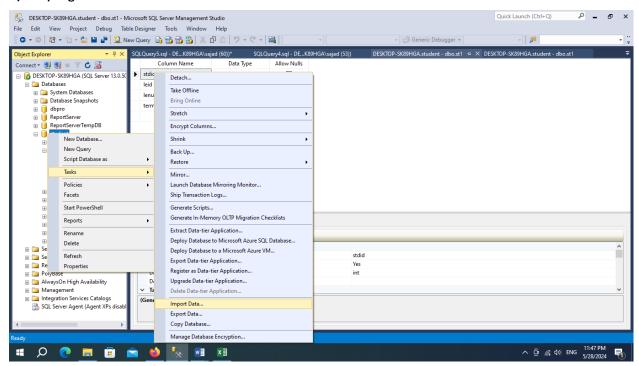
Image of student table



- 2- Pouring data into the table using Excel software
- a) Create four data columns and save in csv format

	А	В	С	D	Е	F	G
1	1	2	3	4			
2	3	3	3	4001			
3	4	4	0	4022			
4	2	3	9	4021			
5	5	1	14	4002			
6	1	2	11	4022			
7	4	5	3	4012			
8	6	1	20	4012			
9	5	5	4	4022			
10	2	4	8	4022			
11	4	3	18	4012			
12	6	1	6	4012			
13	4	3	2	4001			

#### b) Dumping data into the student table







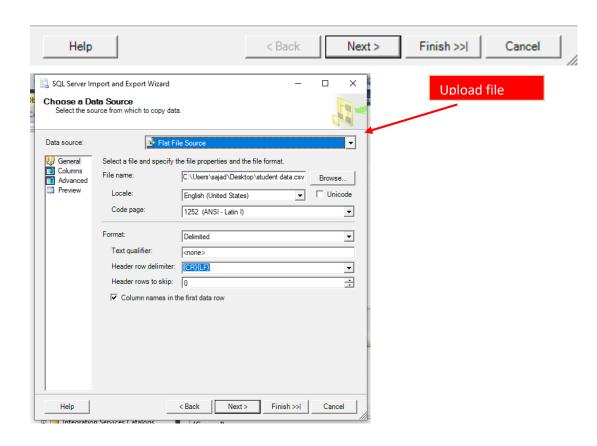


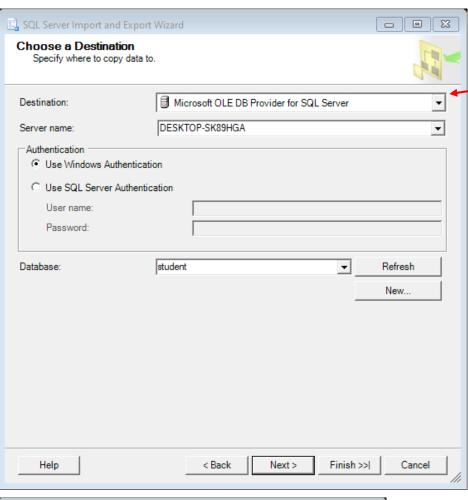
# Welcome to SQL Server Import and Export Wizard

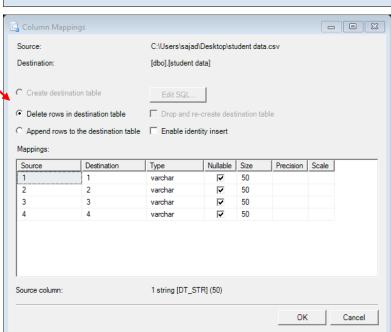
This wizard helps you to create simple packages that import and export data between many popular data formats including databases, spreadsheets, and text files. The wizard can also create the destination database and the tables into which the data is inserted.

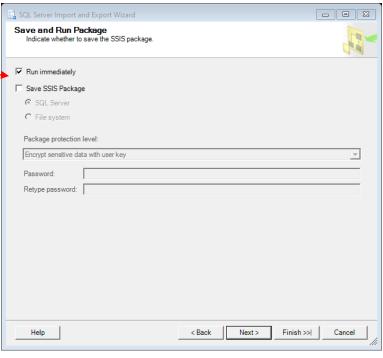
To move or copy databases and their objects from one server instance to another, cancel this wizard and use the Copy Database Wizard instead. The Copy Database Wizard is available in SQL Server Management Studio.

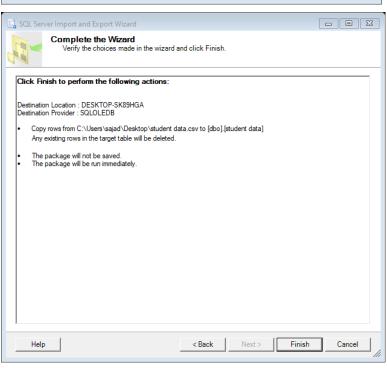
Do not show this starting page again.

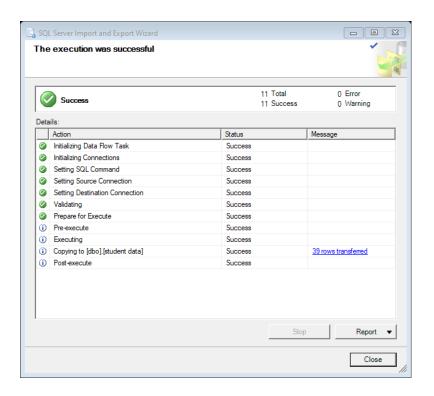






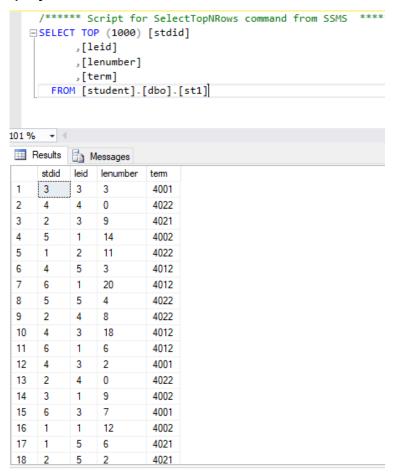




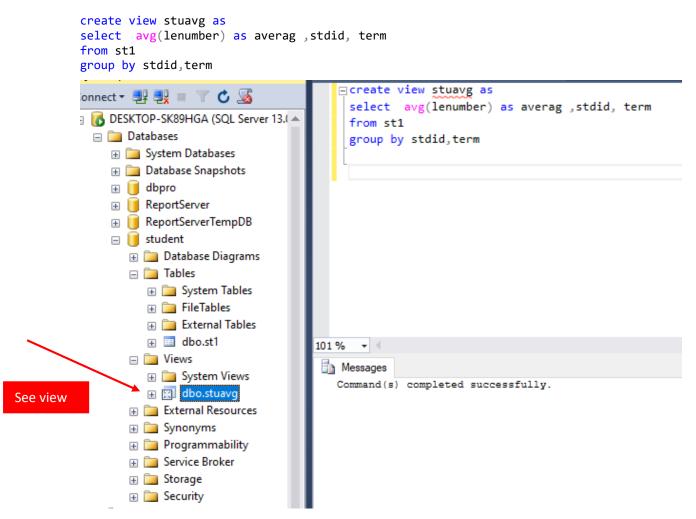


### Data were interpolated

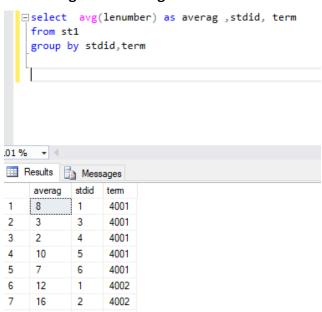
## 3-Query to display data



# 4-Taking the average from the table data and placing it in the view section to save this query



### 5- Taking the average from the table data



6-In order for our data to be organized and analyzable, we use Pivot Query, which has an organized appearance and is usable.

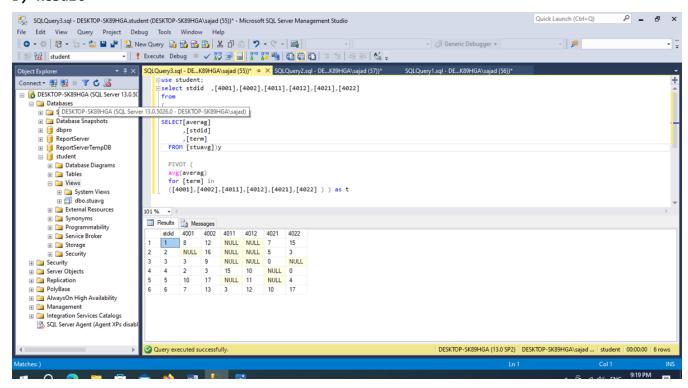
## A) Query for pivot

```
use student;
select stdid ,[4001],[4002],[4011],[4012],[4021],[4022]
from
(

SELECT[averag]
     ,[stdid]
     ,[term]
FROM [stuavg]) y

PIVOT(
avg(averag)
for [term] in
 ([4001],[4002],[4011],[4012],[4021],[4022] ) )as t
```

#### B) Result



=== Results		Messages					
	stdid	4001	4002	4011	4012	4021	4022
1	1	8	12	NULL	NULL	7	15
2	2	NULL	16	NULL	NULL	5	3
3	3	3	9	NULL	NULL	0	NULL
4	4	2	3	15	10	NULL	0
5	5	10	17	NULL	11	NULL	4
6	6	7	13	3	12	10	17

This is the result of the pivot query. I hope this tutorial was useful

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