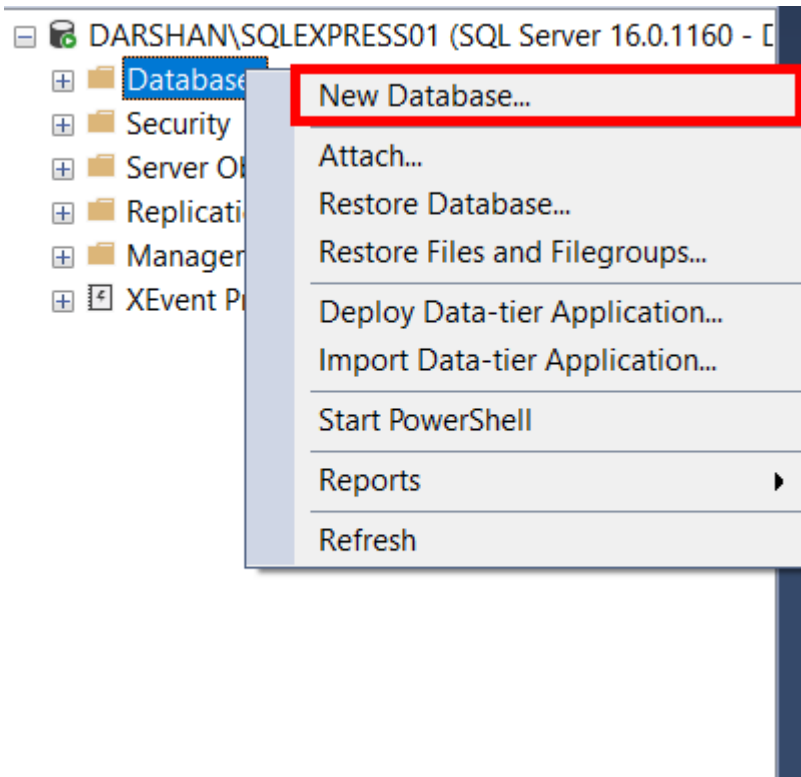


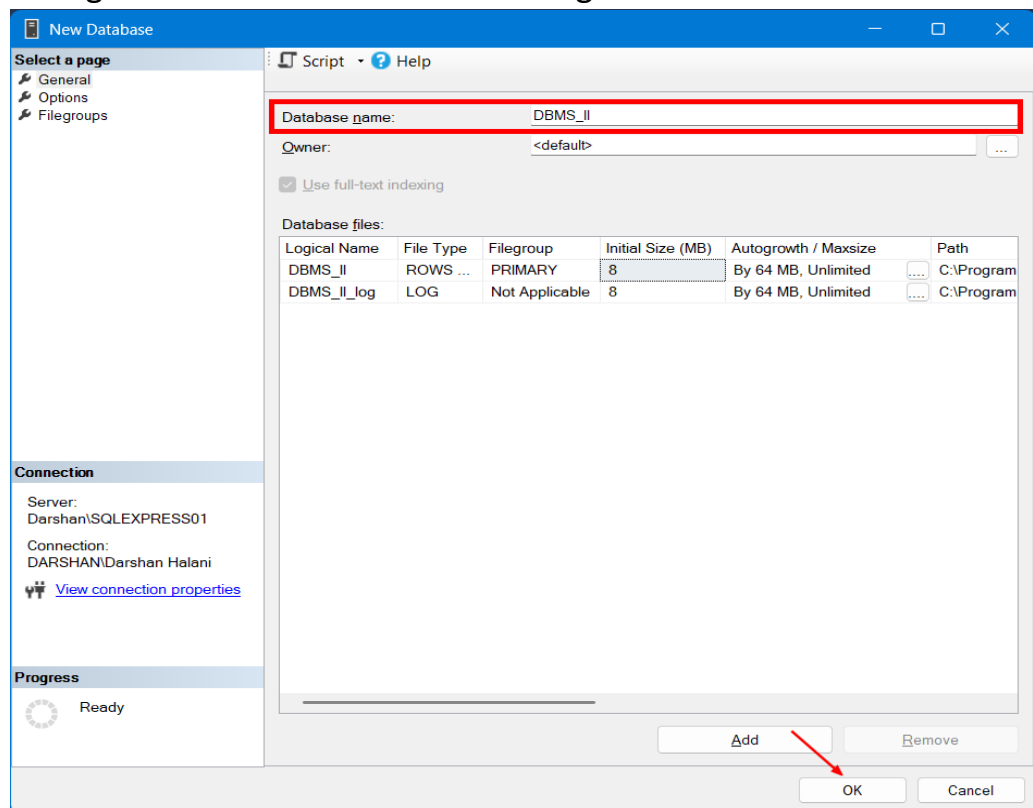
SQL Server Design Mode - Step-by-Step Practical Guide

1. Creating Database:

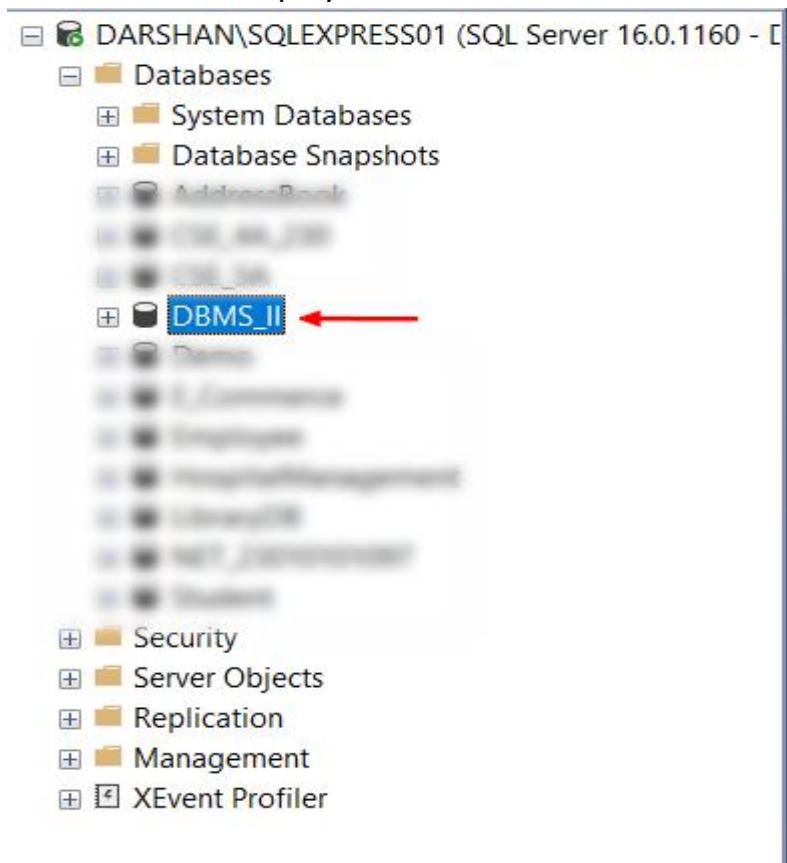
- Selecting “New Database...”



- Entering Database Name and Confirming.

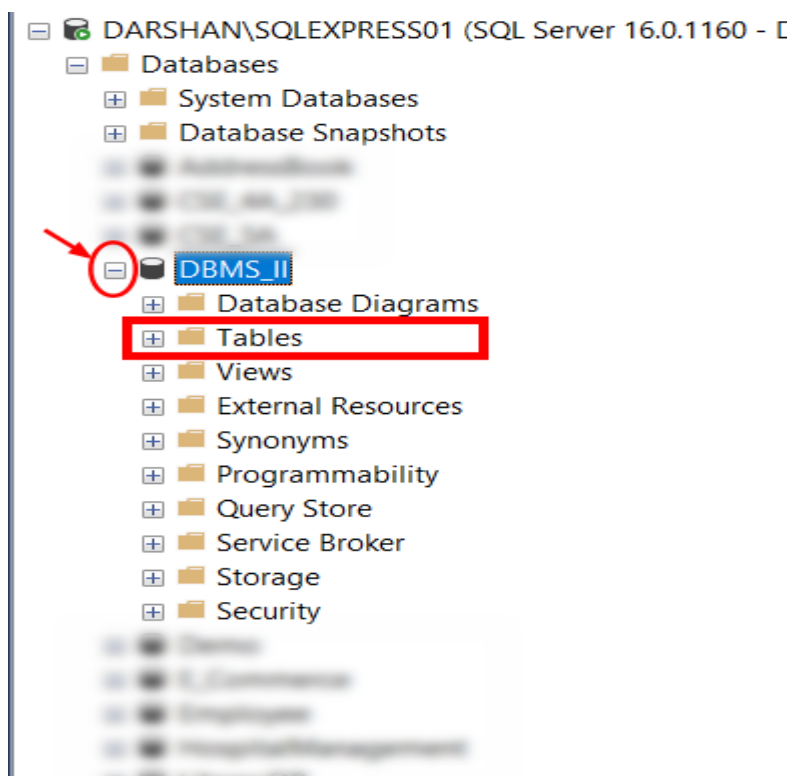


- Newly Created Database Displayed

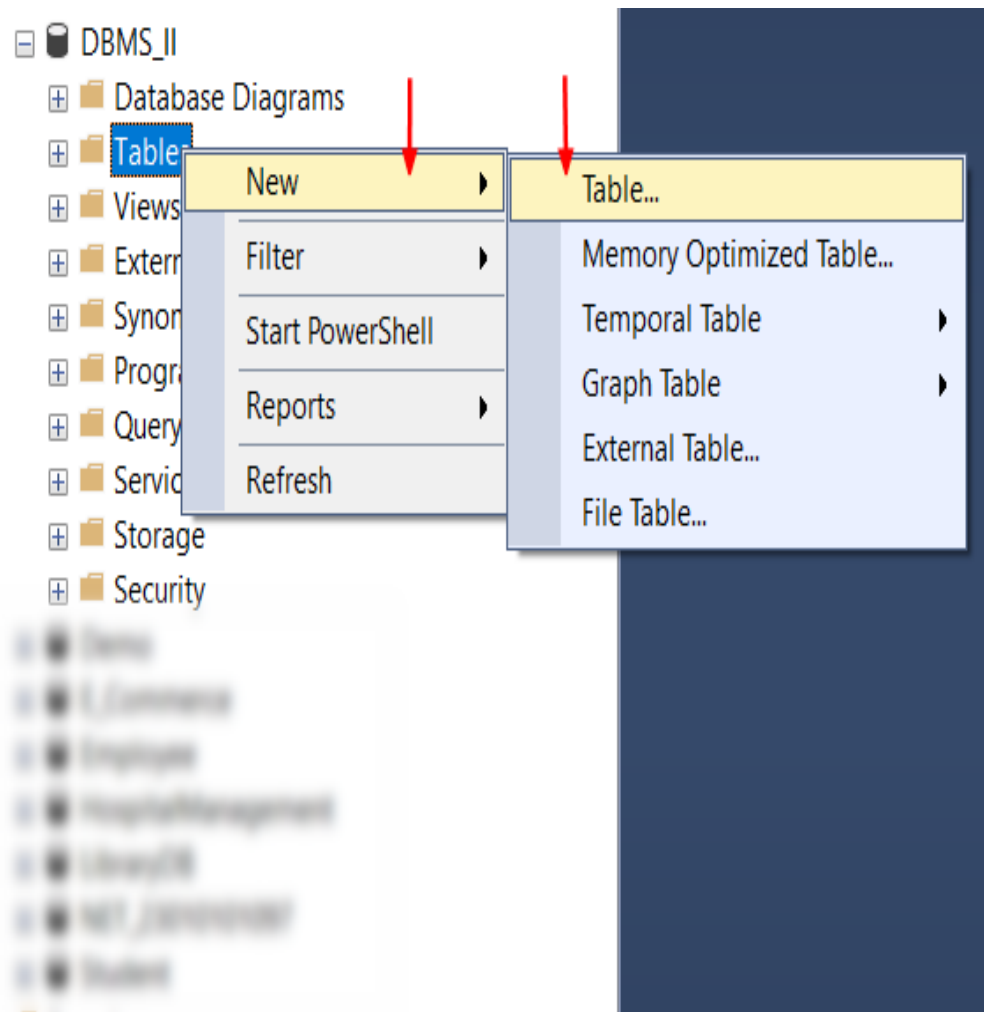


2. Creating Table

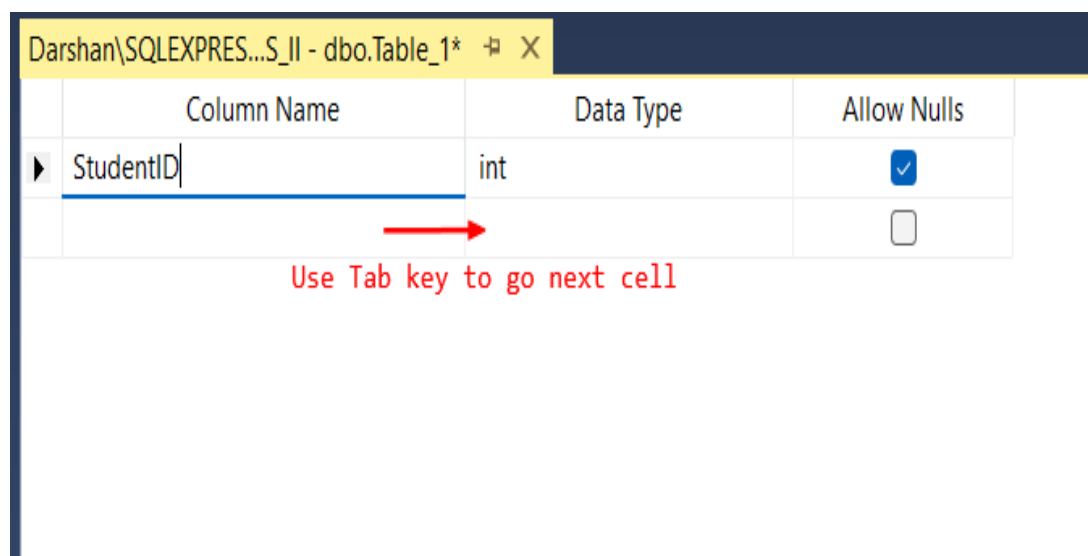
- Opening the Tables Folder



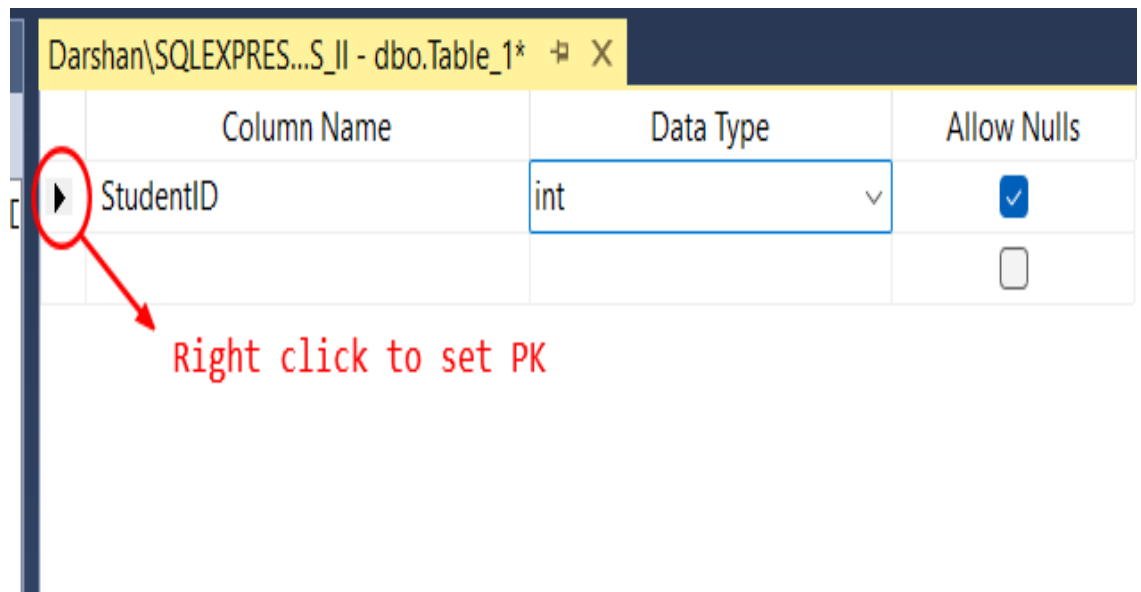
- Creating a New Table



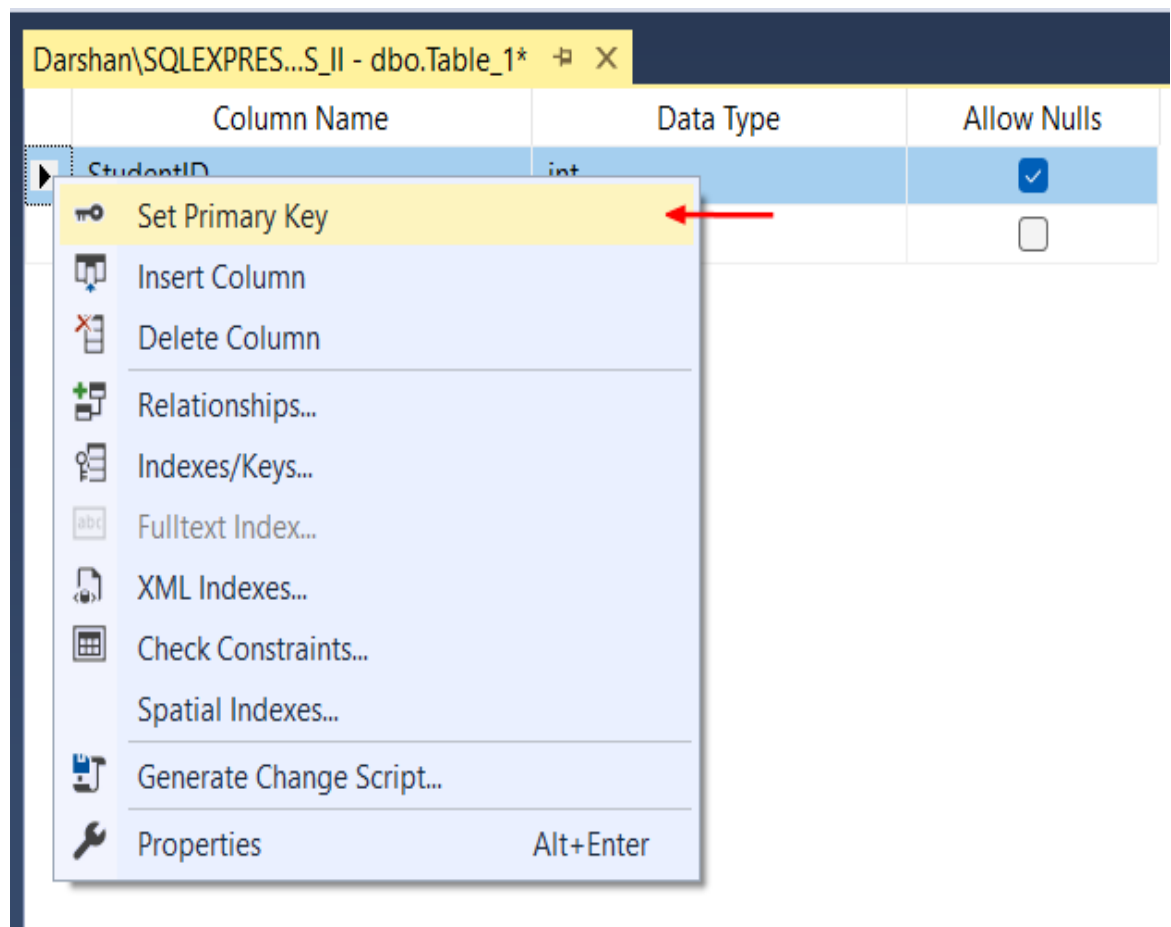
- Entering Column Name and Data Type



- Selecting the Column to Set Primary Key




- Setting the Primary Key



- Primary Key Successfully Set


Darshan\SQLEXPRES...S_II - dbo.Table_1* [X]

	Column Name	Data Type	Allow Nulls
	StudentID	int	<input type="checkbox"/>
			<input type="checkbox"/>

Primary key successfully set

- Adding All Required Columns

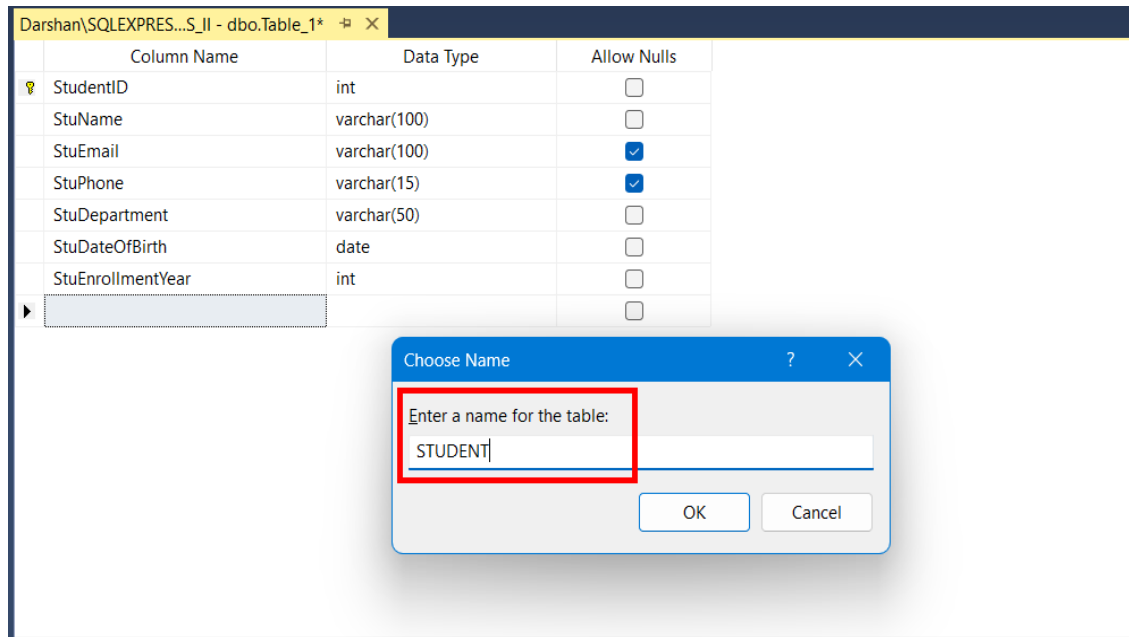
Darshan\SQLEXPRES...S_II - dbo.Table_1* [X]

	Column Name	Data Type	Allow Nulls
	StudentID	int	<input type="checkbox"/>
	StuName	varchar(100)	<input type="checkbox"/>
	StuEmail	varchar(100)	<input checked="" type="checkbox"/>
	StuPhone	varchar(15)	<input checked="" type="checkbox"/>
	StuDepartment	varchar(50)	<input type="checkbox"/>
	StuDateOfBirth	date	<input type="checkbox"/>
	StuEnrollmentYear	int	<input type="checkbox"/>
			<input type="checkbox"/>

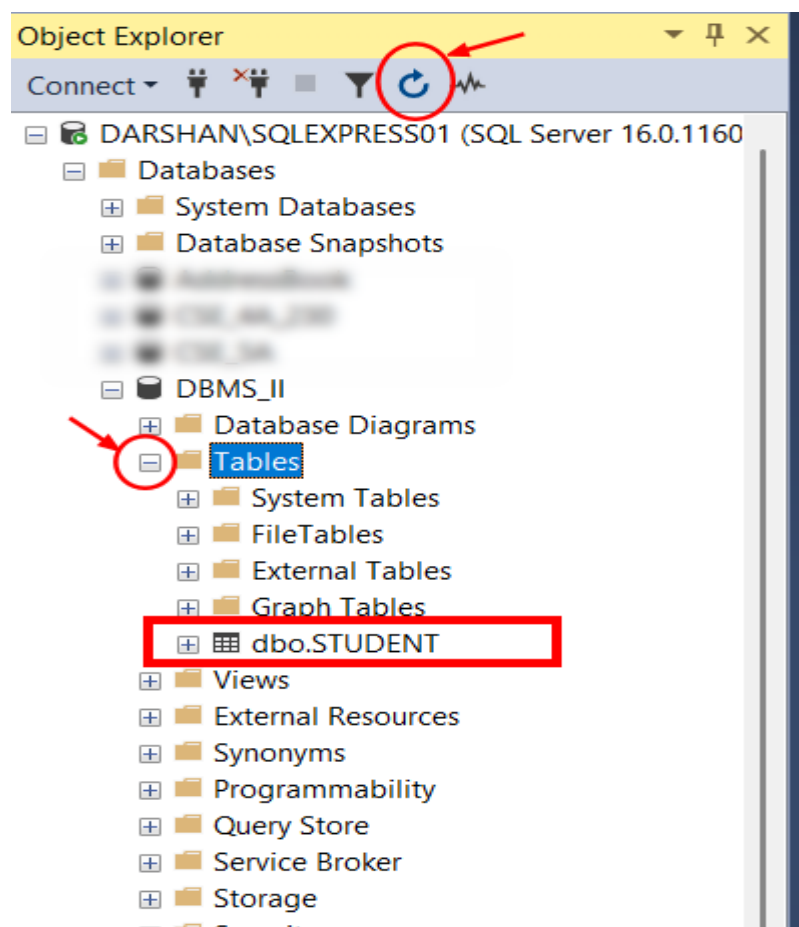
After adding all columns, press Ctrl + S to save the table.

3. Saving Table & Inserting Data

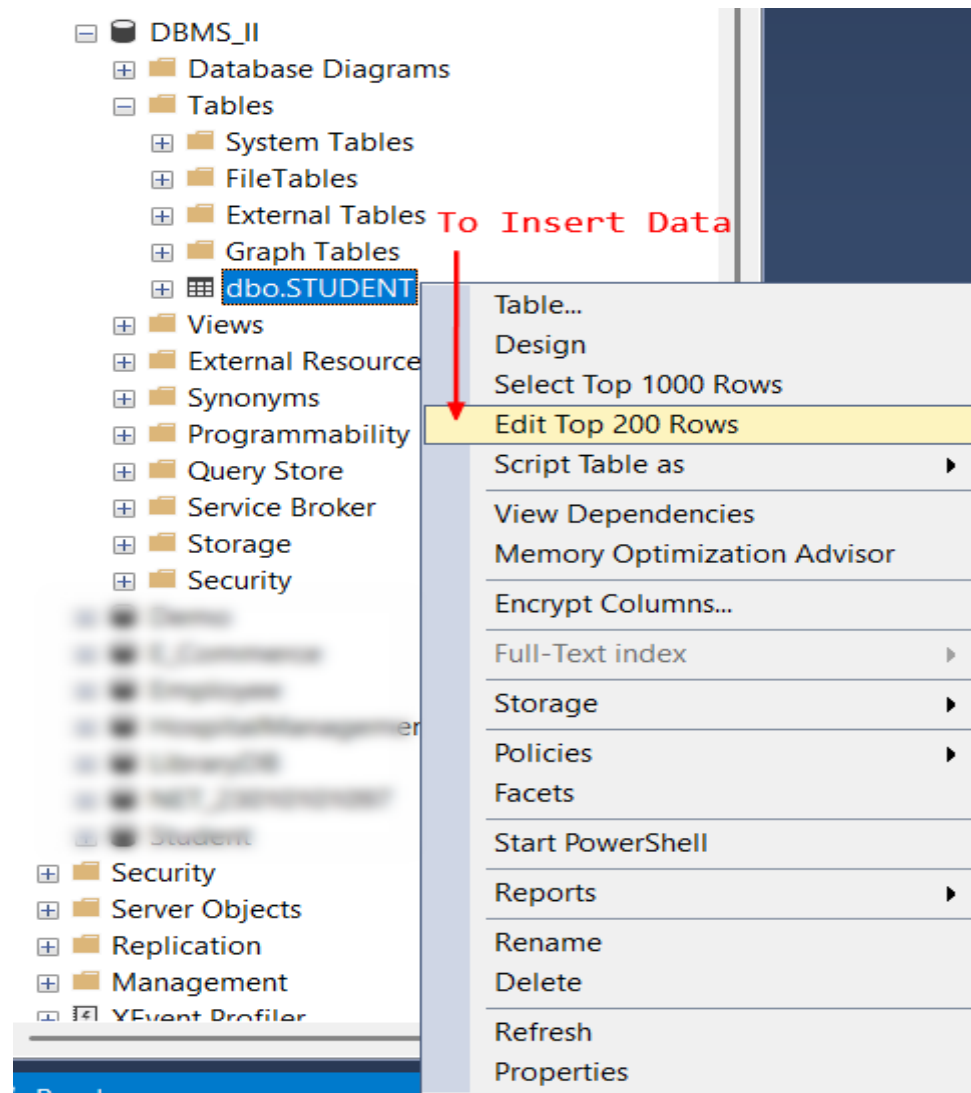
- Naming and Saving the Table



- Refreshing to View the Saved Table



- Opening “Edit Top 200 Rows” to Insert Data



- Inserting Records Using Design Mode

Darshan\SQLXPRESS..._II - dbo.STUDENT							
	StudentID	StuName	StuEmail	StuPhone	StuDepartment	StuDateOfBirth	StuEnrollmentYear
	1	Raj Patel	raj@univ.edu	9876543210	CSE	2003-05-15	2021
	2	Priya Shah	priya@univ....	9876543211	IT	2002-08-22	2020
	3	Amit Kumar	amit@univ....	9876543212	CSE	2003-11-10	2021
»*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

After inserting all records, press Ctrl + S to save them into the table.

- Verifying Inserted Records with SELECT Query

SQLQuery1.sql - DA...arshan Halani (53)) * X Darshan\SQLEXPRES..._II - dbo.STUDENT

```
1 select * from STUDENT;
```

159 %

Results Messages

	StudentID	StuName	StuEmail	StuPhone	StuDepartment	StuDateOfBirth	StuEnrollmentYear
1	1	Raj Patel	raj@univ.edu	9876543210	CSE	2003-05-15	2021
2	2	Priya Shah	priya@univ.edu	9876543211	IT	2002-08-22	2020
3	3	Amit Kumar	amit@univ.edu	9876543212	CSE	2003-11-10	2021

4. Setting Identity (Auto Increment)

- Opening Identity Specification

Darshan\SQLEXPRES...S_II - dbo.Table_1* X

Column Name	Data Type	Allow Nulls
EnrollmentID	int	<input type="checkbox"/>



To set the column as Identity (auto increment)


Column Properties

Condensed Data Type	int
Description	
Deterministic	Yes
DTS-published	No
> Full-text Specification	No
Has Non-SQL Server Subscriber	No
> Identity Specification	No
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replication	No
Replicated	No
RowGuid	No
Size	4


(General)

- Enabling Identity and Setting Seed & Increment

Darshan\SQLEXPRES...S_II - dbo.Table_1*  

	Column Name	Data Type	Allow Nulls
	EnrollmentID	int	<input type="checkbox"/>
			<input type="checkbox"/>

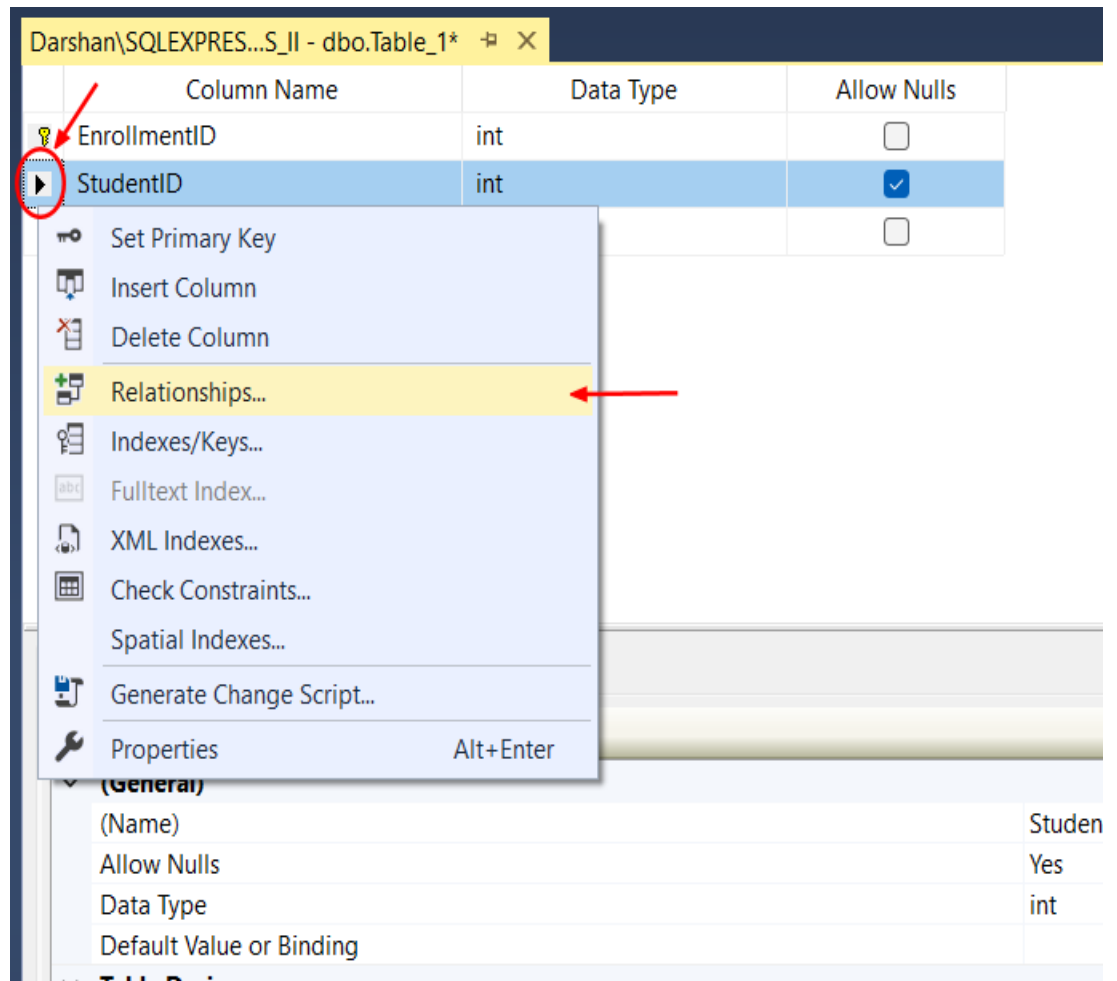
Column Properties

Condensed Data Type	int
Description	
Deterministic	Yes
DTS-published	No
> Full-text Specification	No
Has Non-SQL Server Subscriber	No
 Identity Specification	Yes
(Is Identity)	Yes
Identity Increment	1
Identity Seed	1
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replication	No

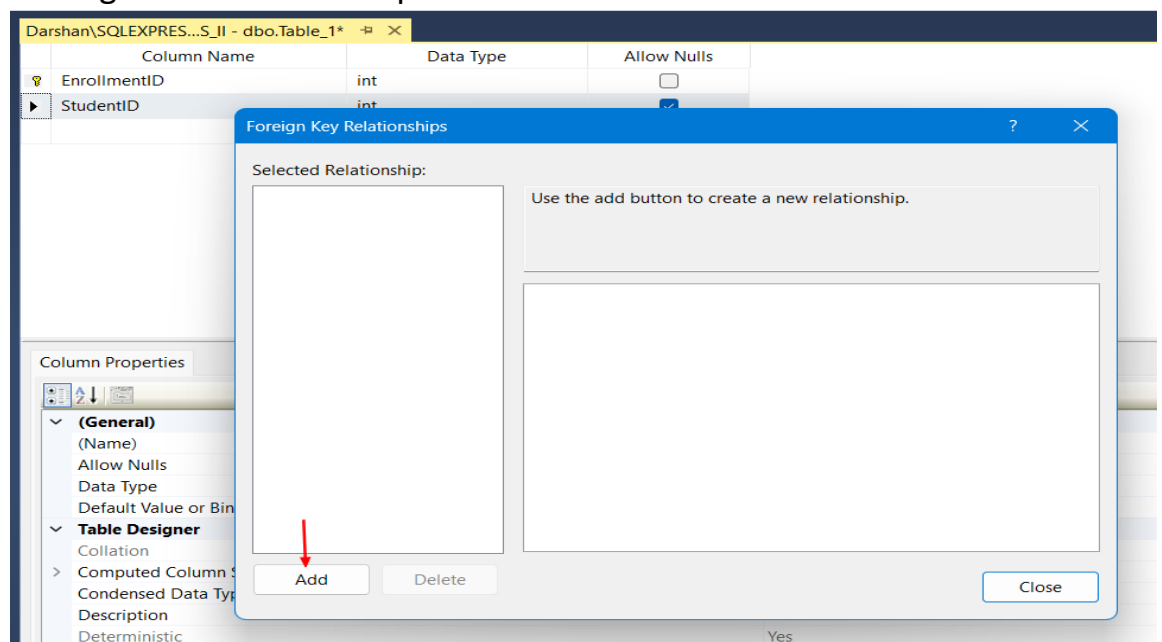
(Is Identity)

5. Creating Foreign Key

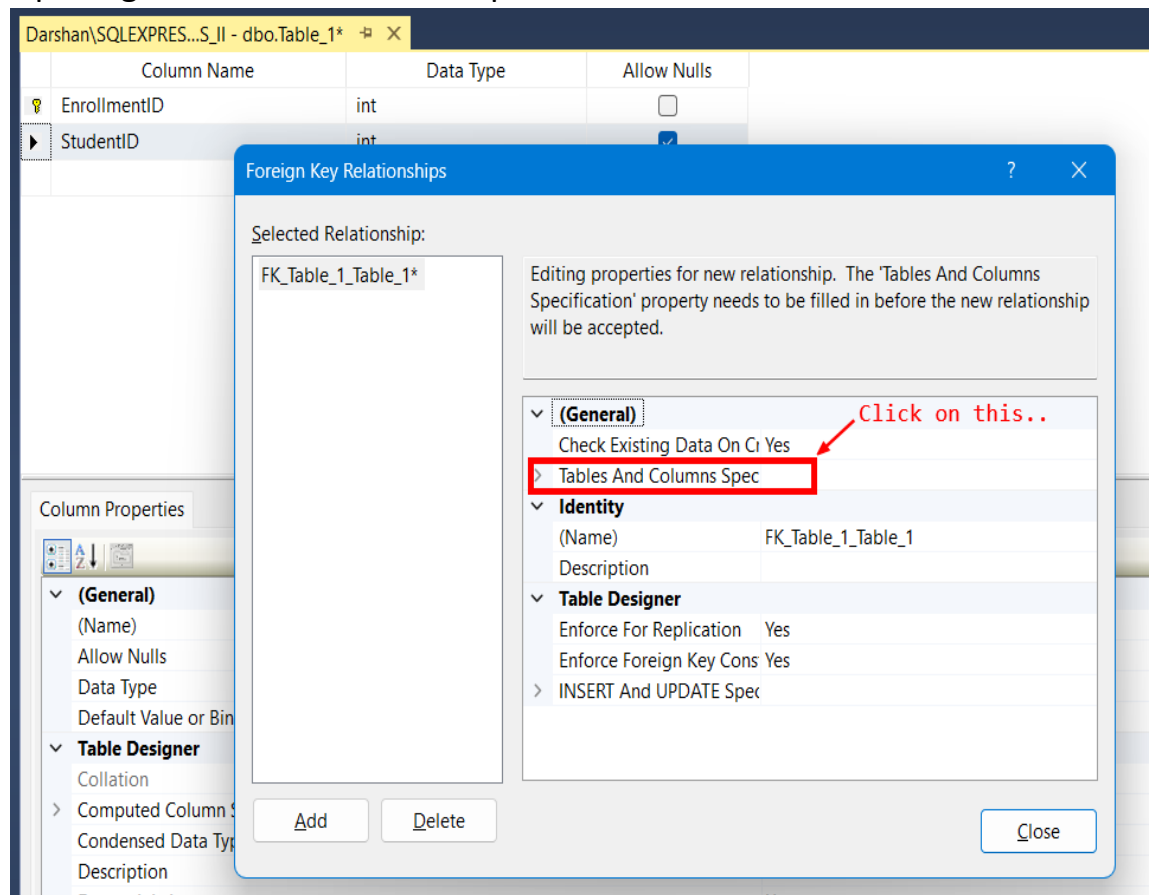
- Opening the Relationships Window



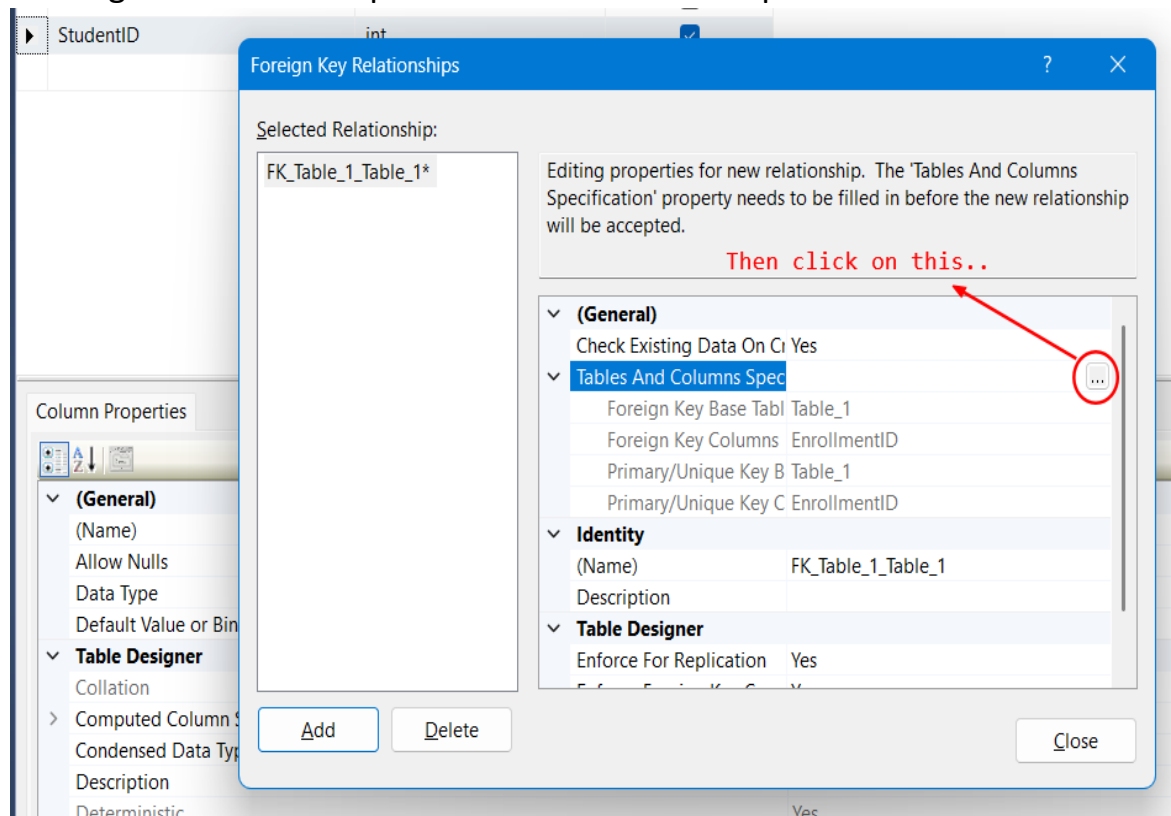
- Adding a New Relationship



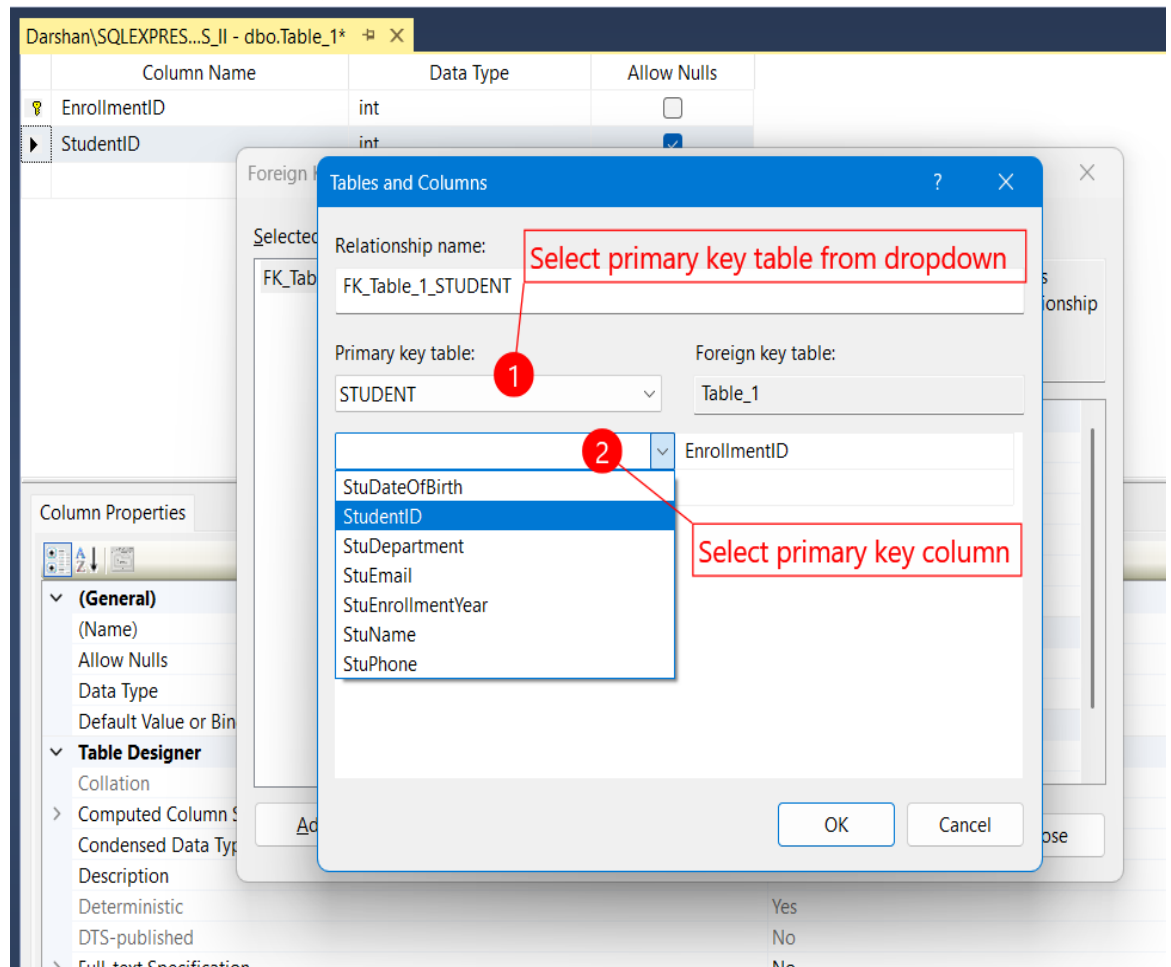
- Opening “Tables and Columns Specification”



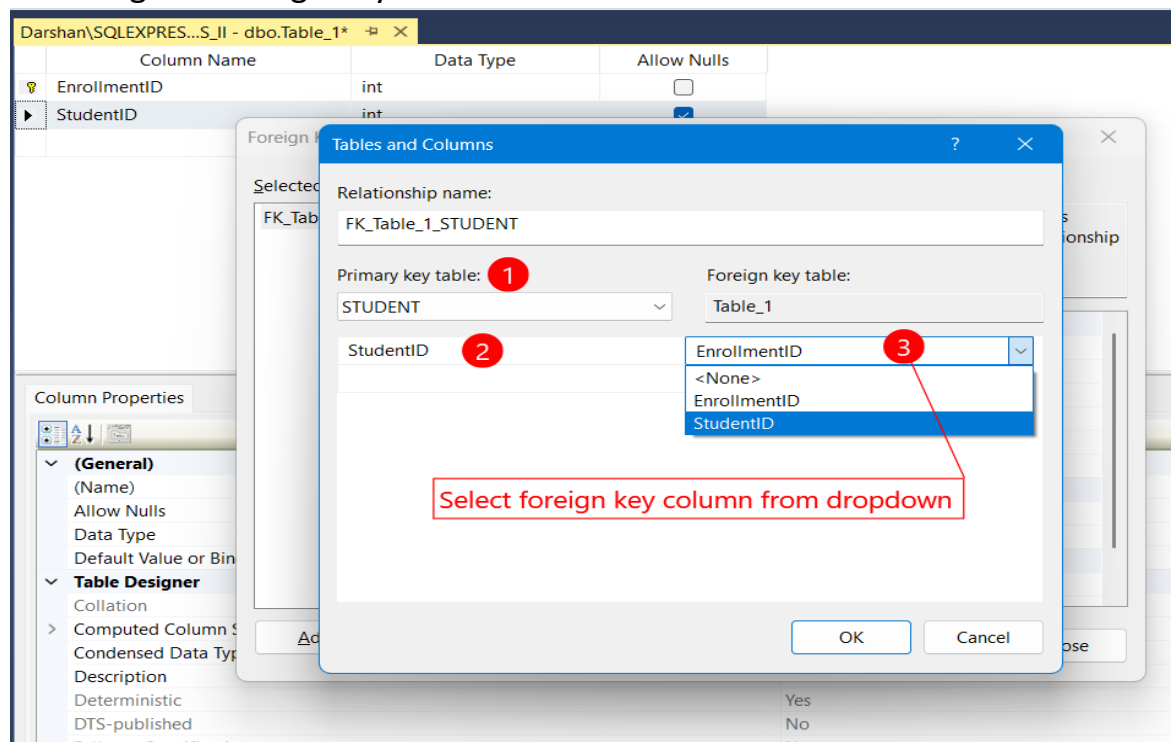
- Clicking the Button to Open Tables and Columns Specification



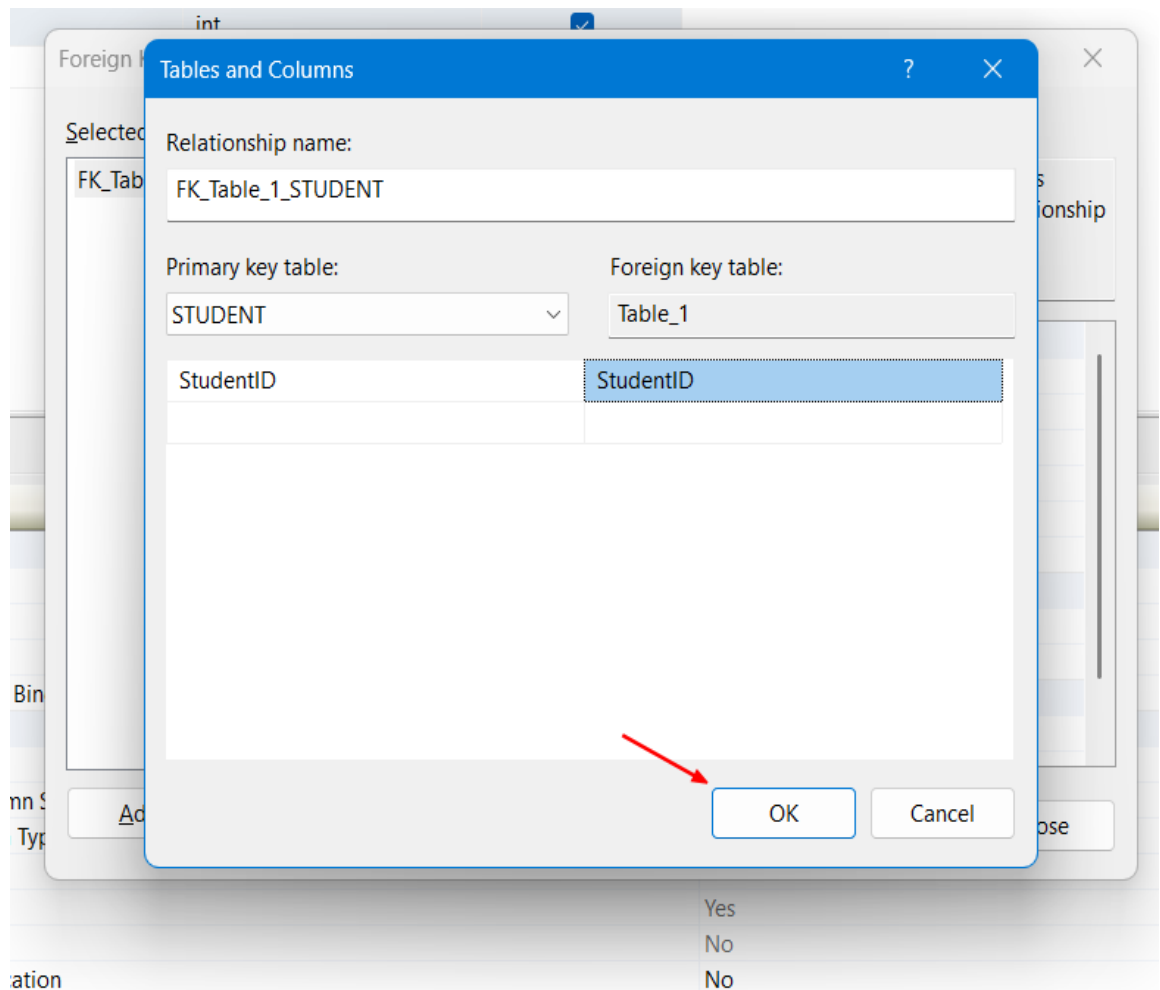
- Selecting the Primary Key Table and Column



- Selecting the Foreign Key Column

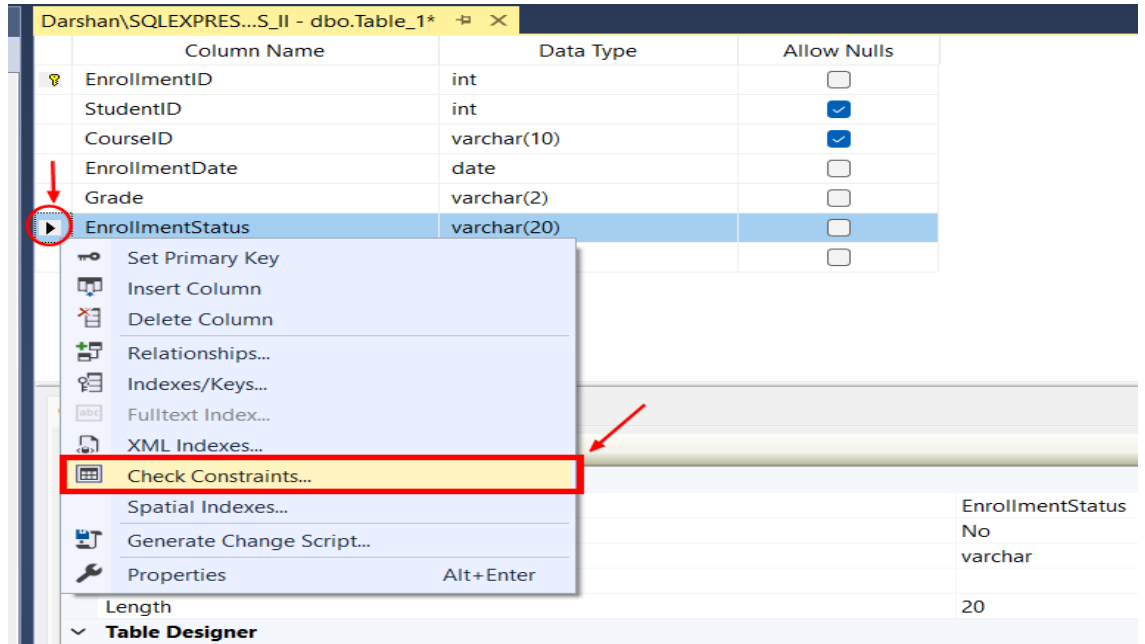


- Confirming the Foreign Key Mapping

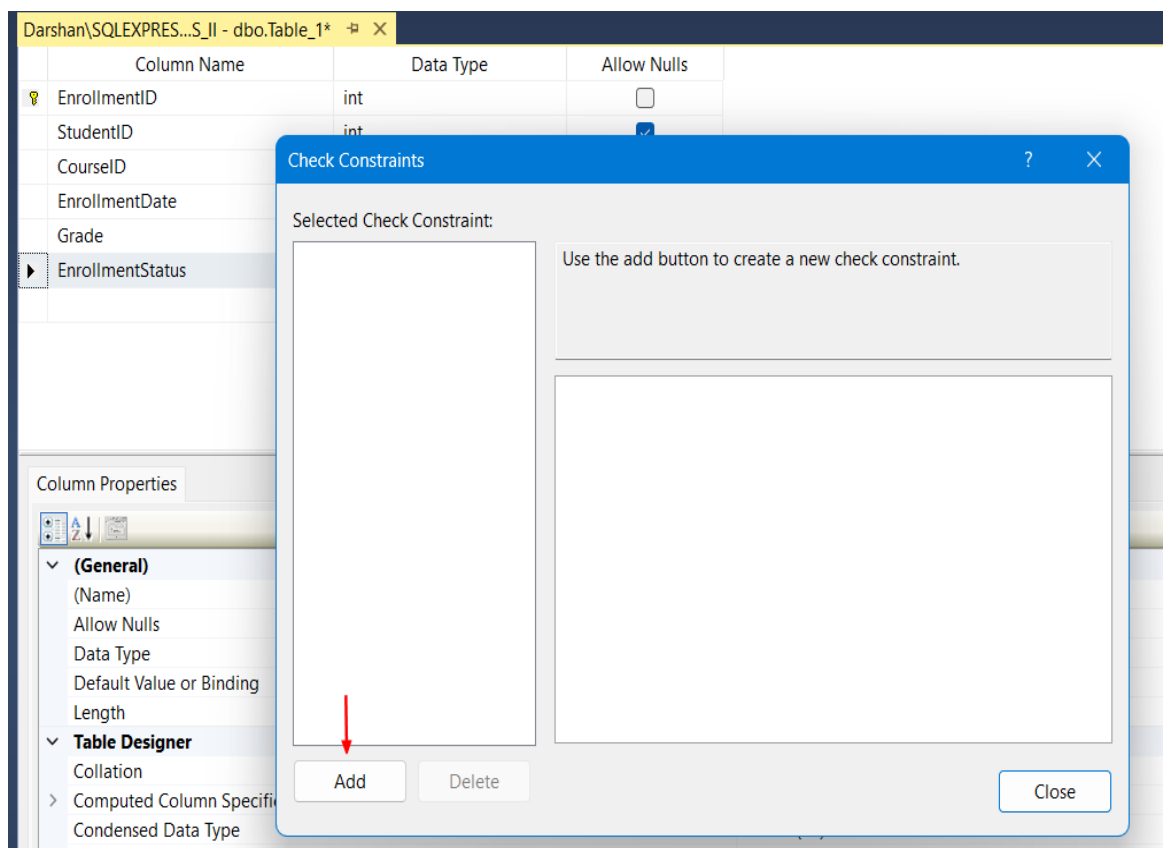


6. Setting Check Constraint

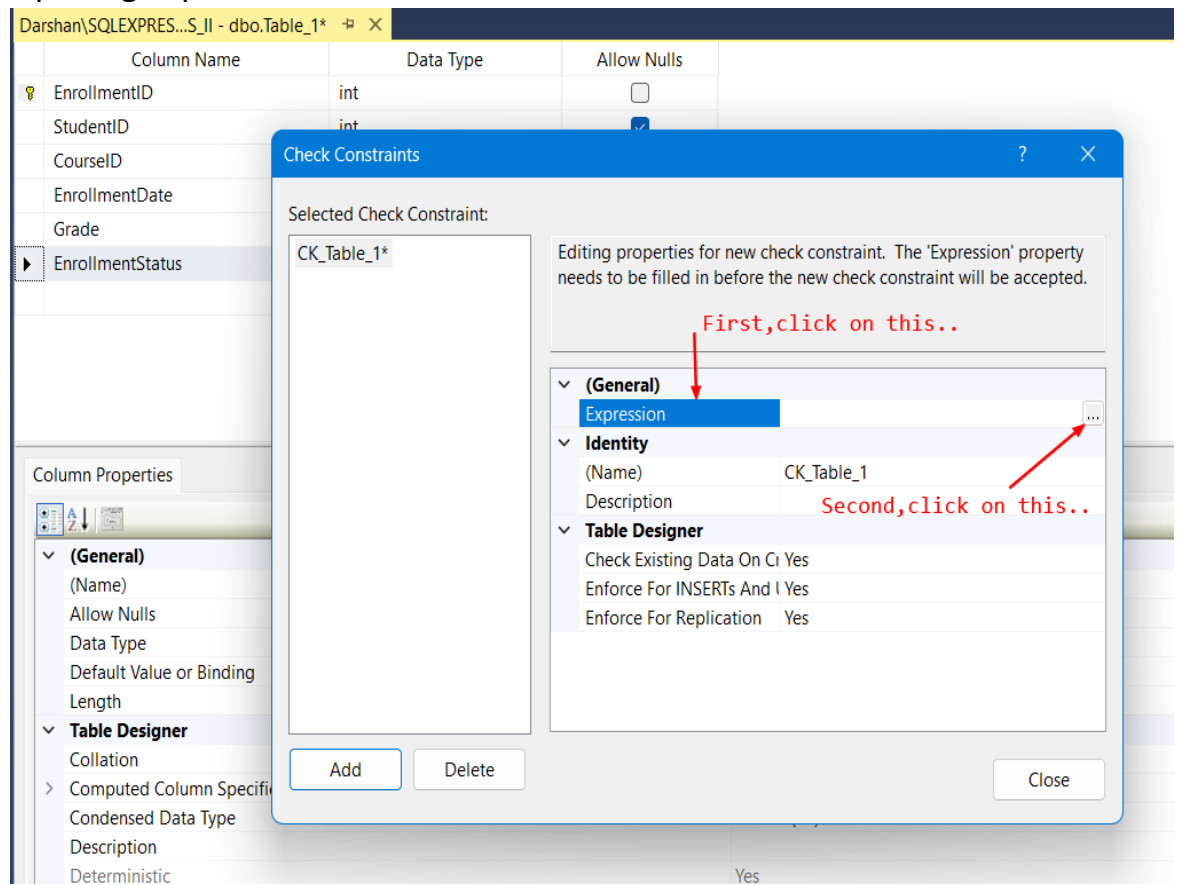
- Opening Check Constraints



- Adding a New Check Constraint



- Opening Expression Editor



- Entering the Check Constraint Expression

