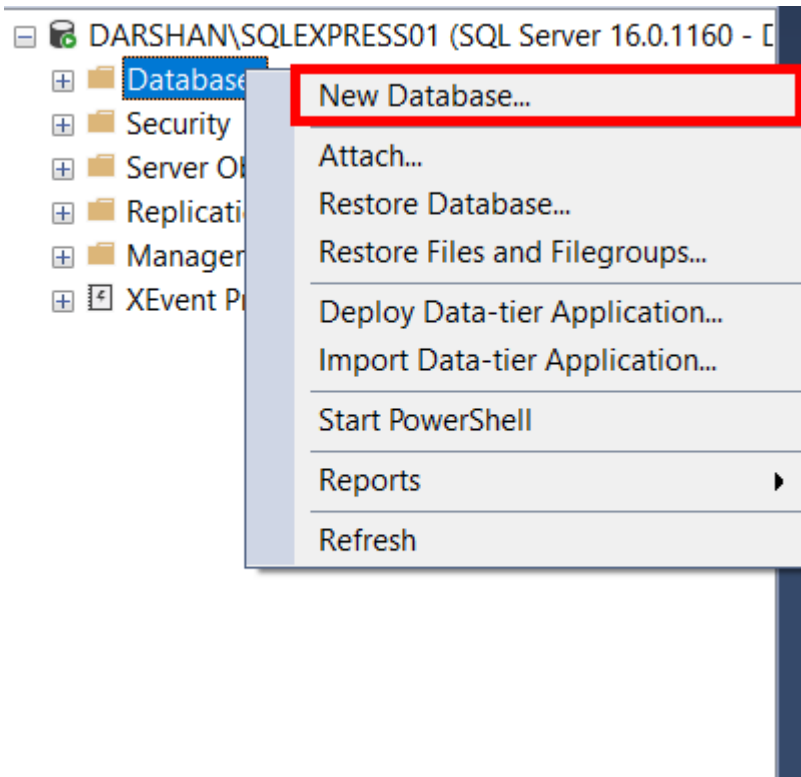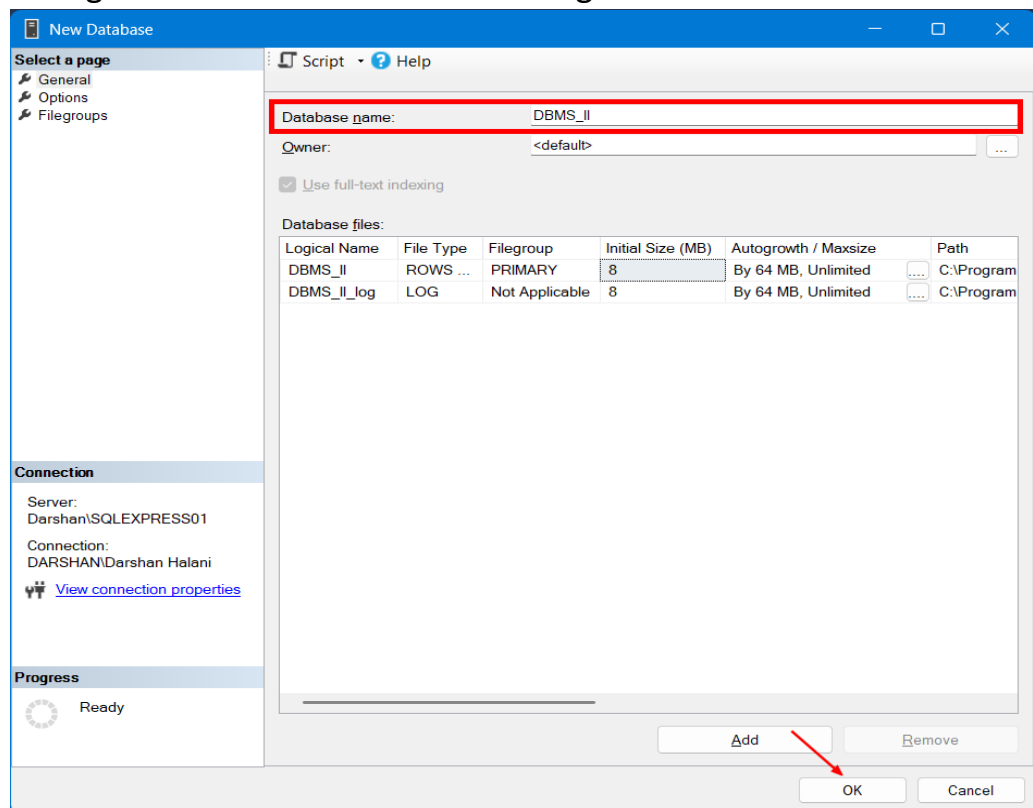# SQL Server Design Mode - Step-by-Step Practical Guide

1. Creating Database:
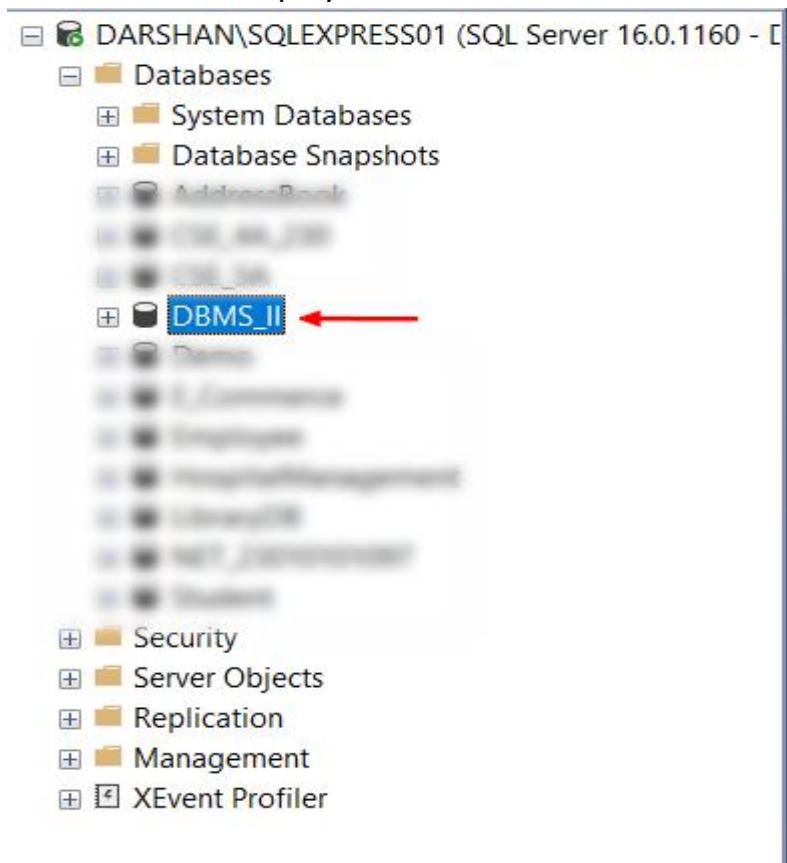
- Selecting "New Database…"

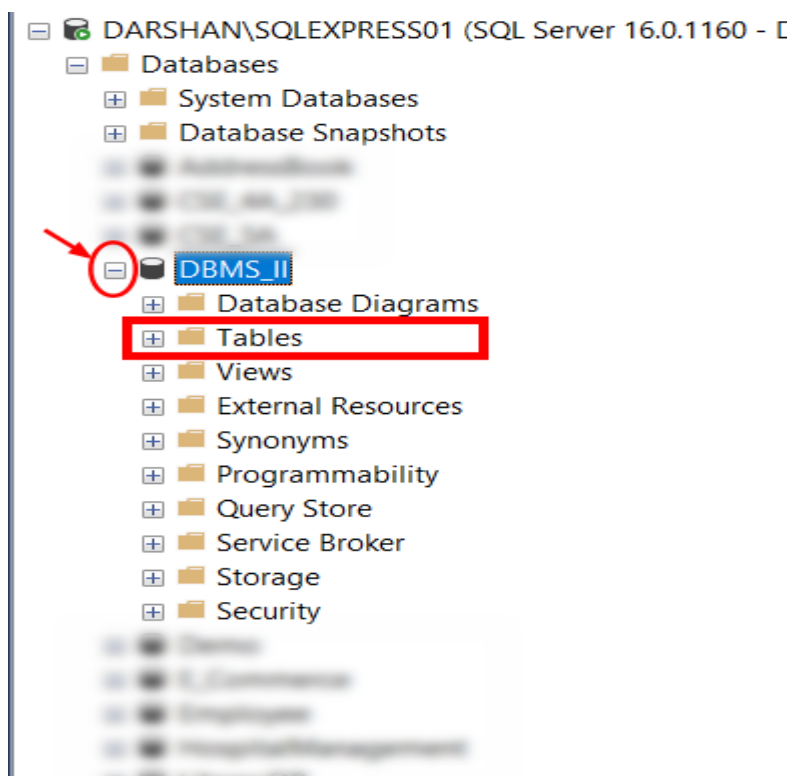- Entering Database Name and Confirming.
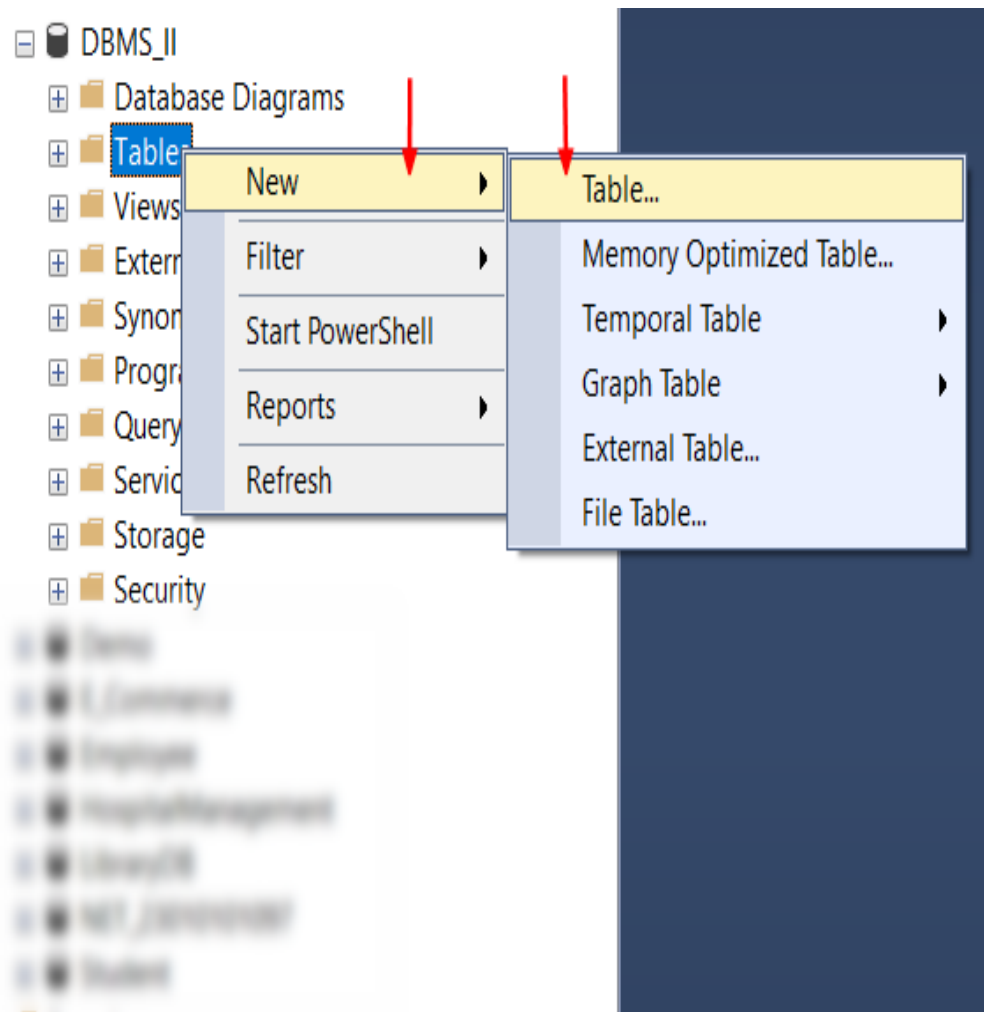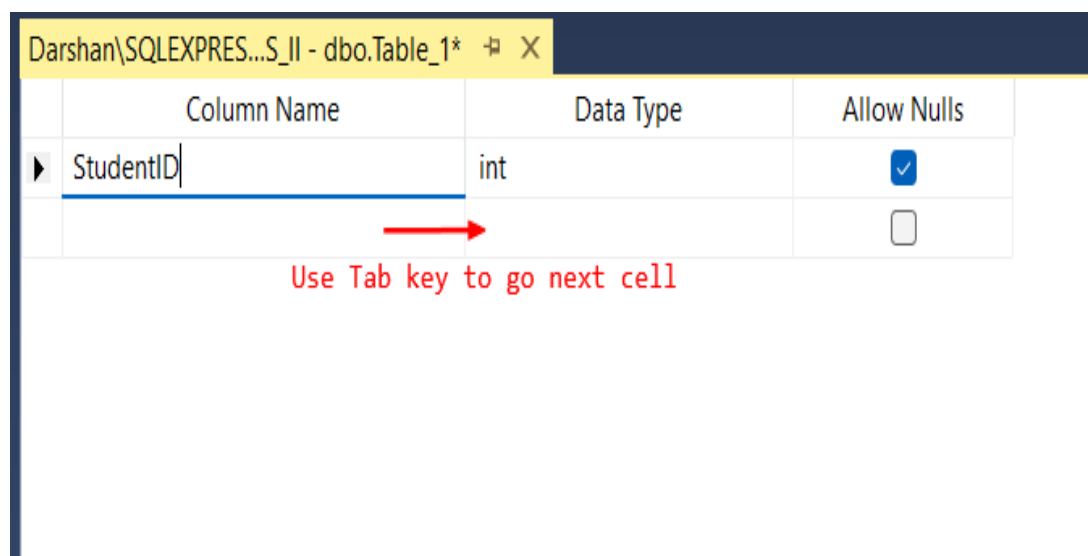
- Newly Created Database Displayed
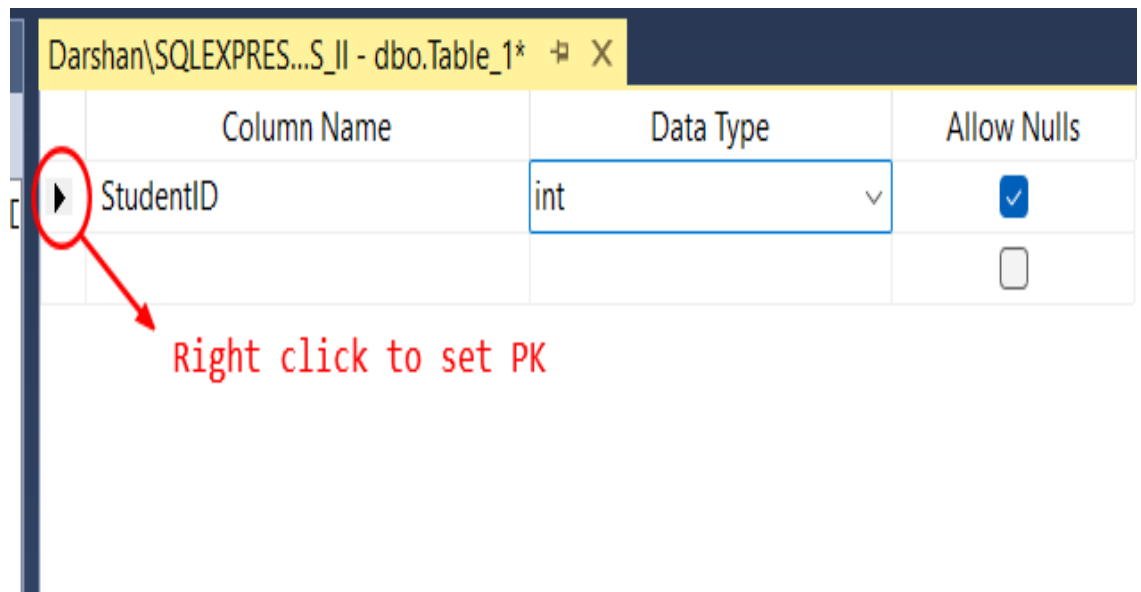

2. Creating Table
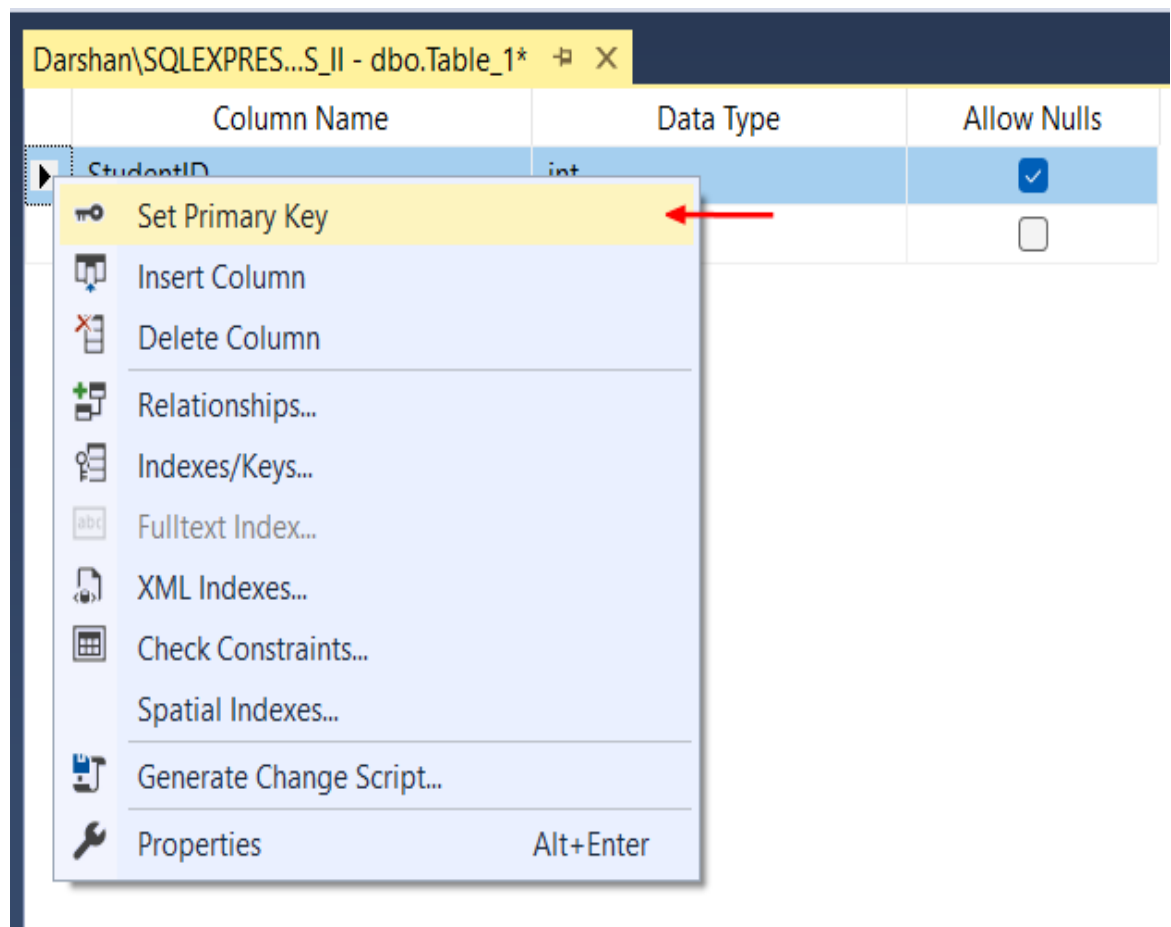
- Opening the Tables Folder

- Creating a New Table

- Entering Column Name and Data Type

Use Tab key to go next cell

- Selecting the Column to Set Primary Key

- Setting the Primary Key

- Primary Key Successfully Set

- Adding All Required Columns

3. Saving Table & Inserting Data

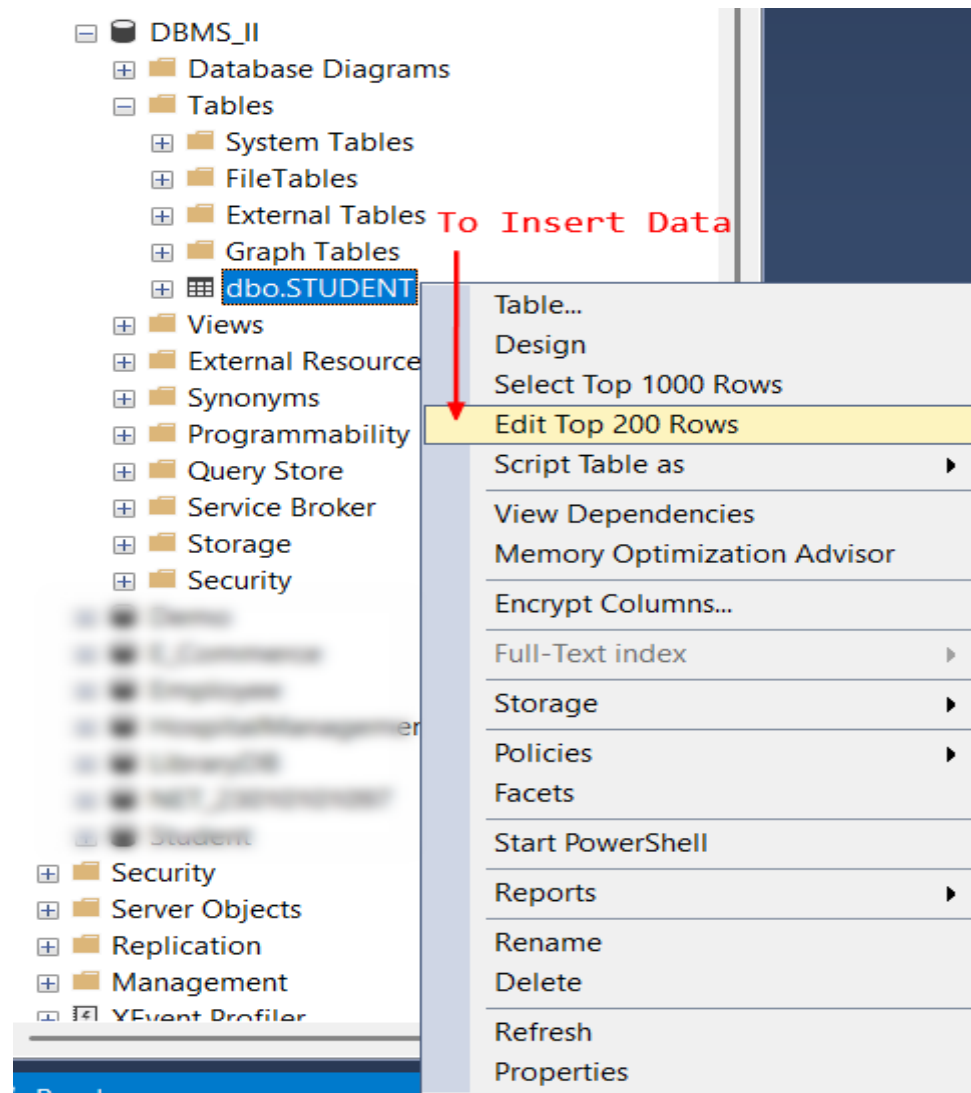- Naming and Saving the Table
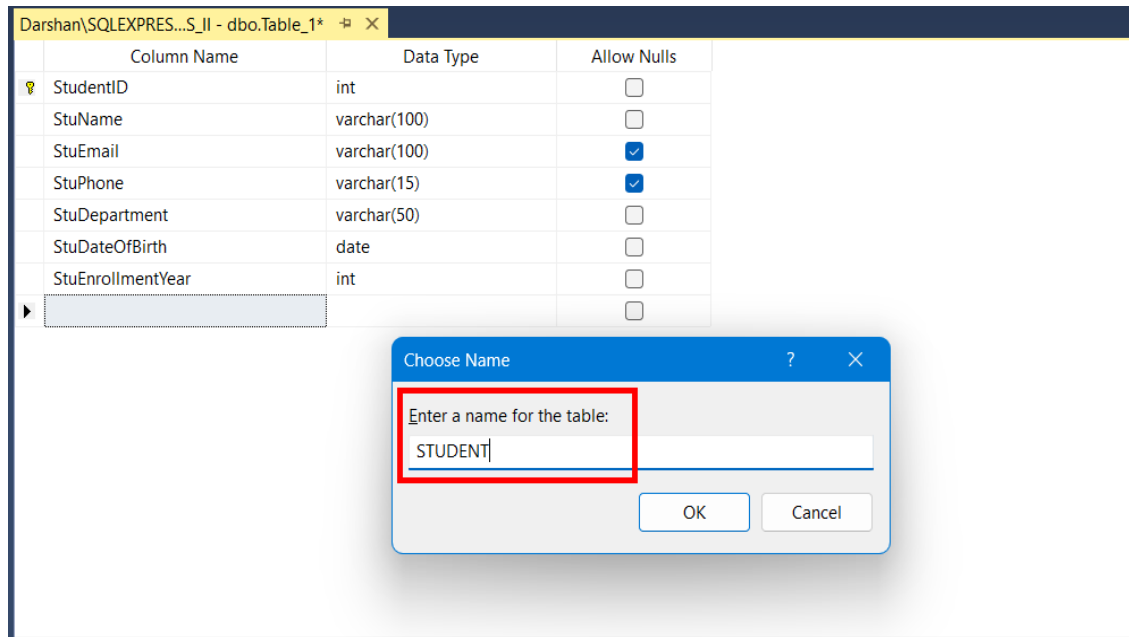
- Refreshing to View the Saved Table
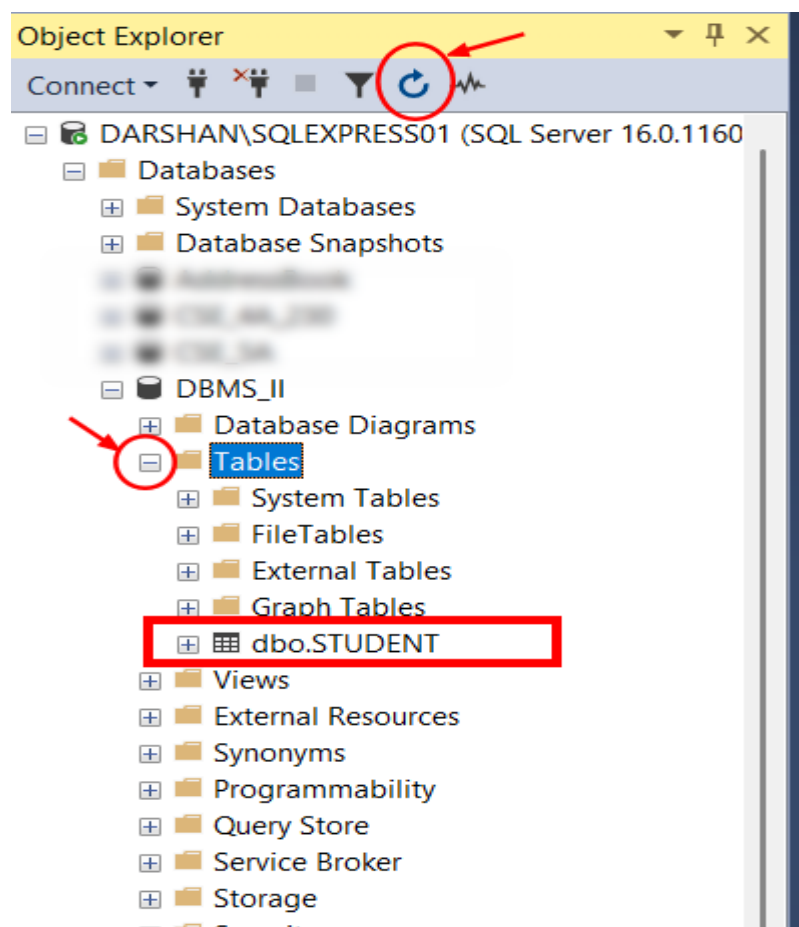
- Opening "Edit Top 200 Rows" to Insert Data

- Inserting Records Using Design Mode

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

4. Setting Identity (Auto Increment)
- Opening Identity Specification
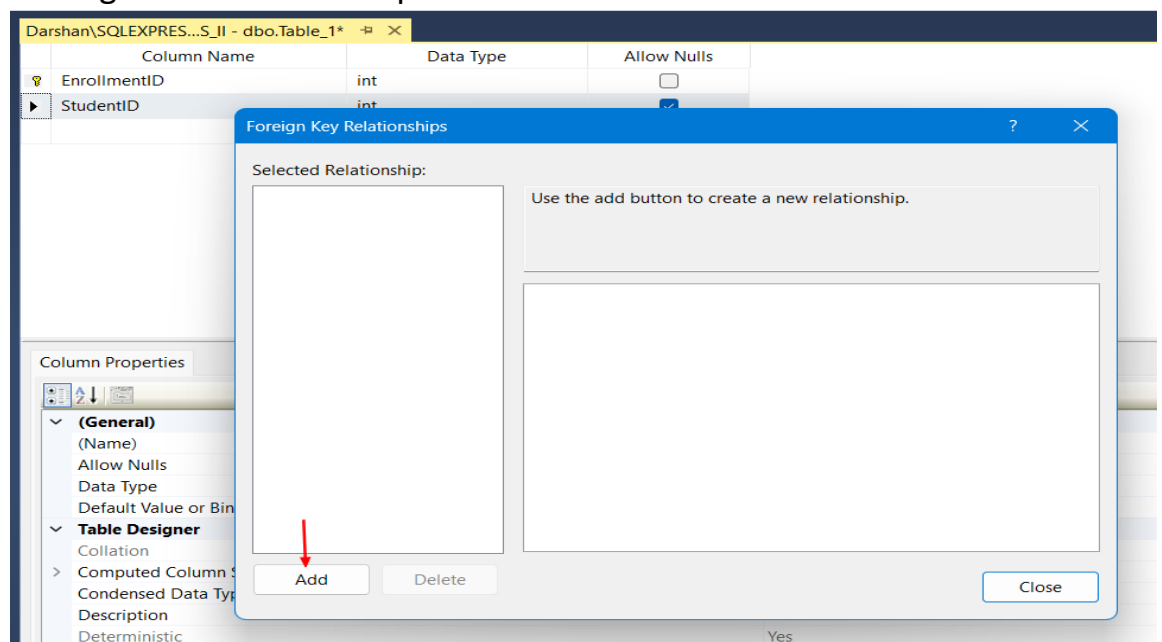
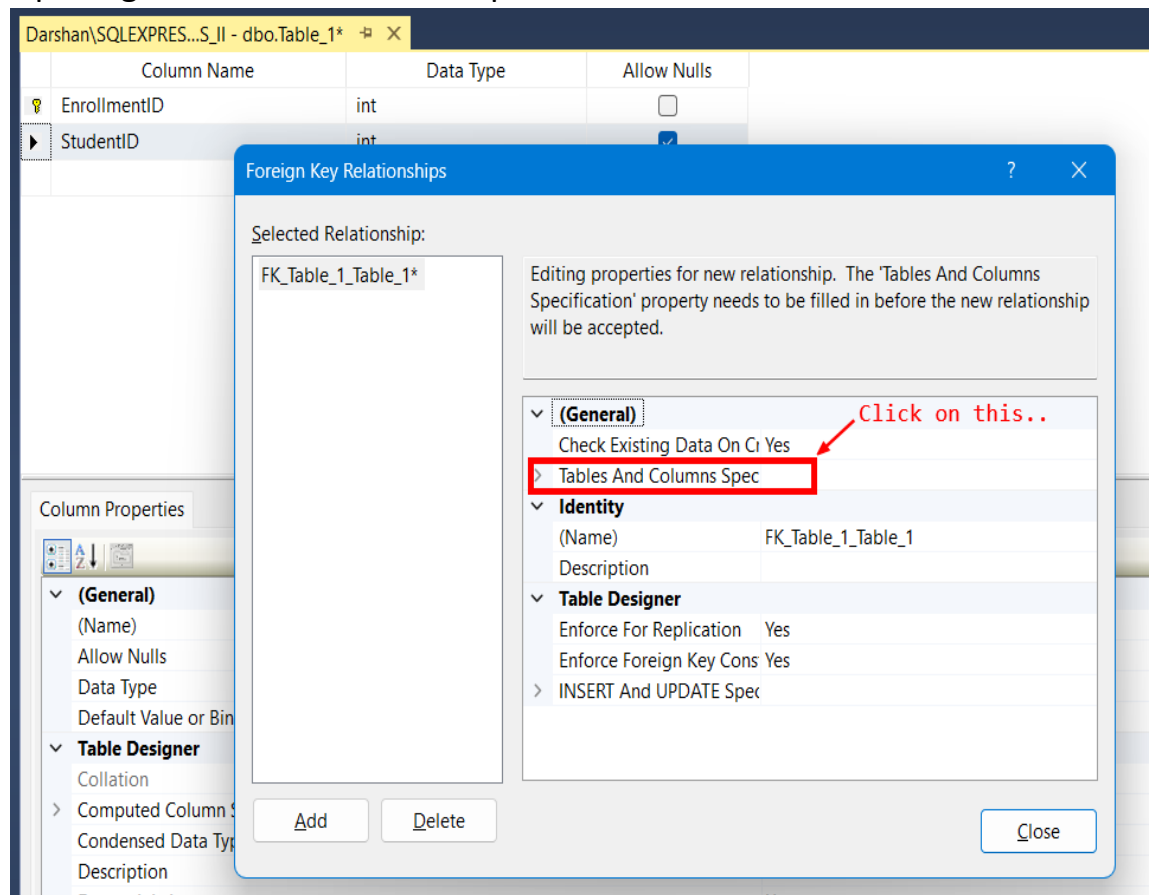- Enabling Identity and Setting Seed & Increment

5. Creating Foreign Key
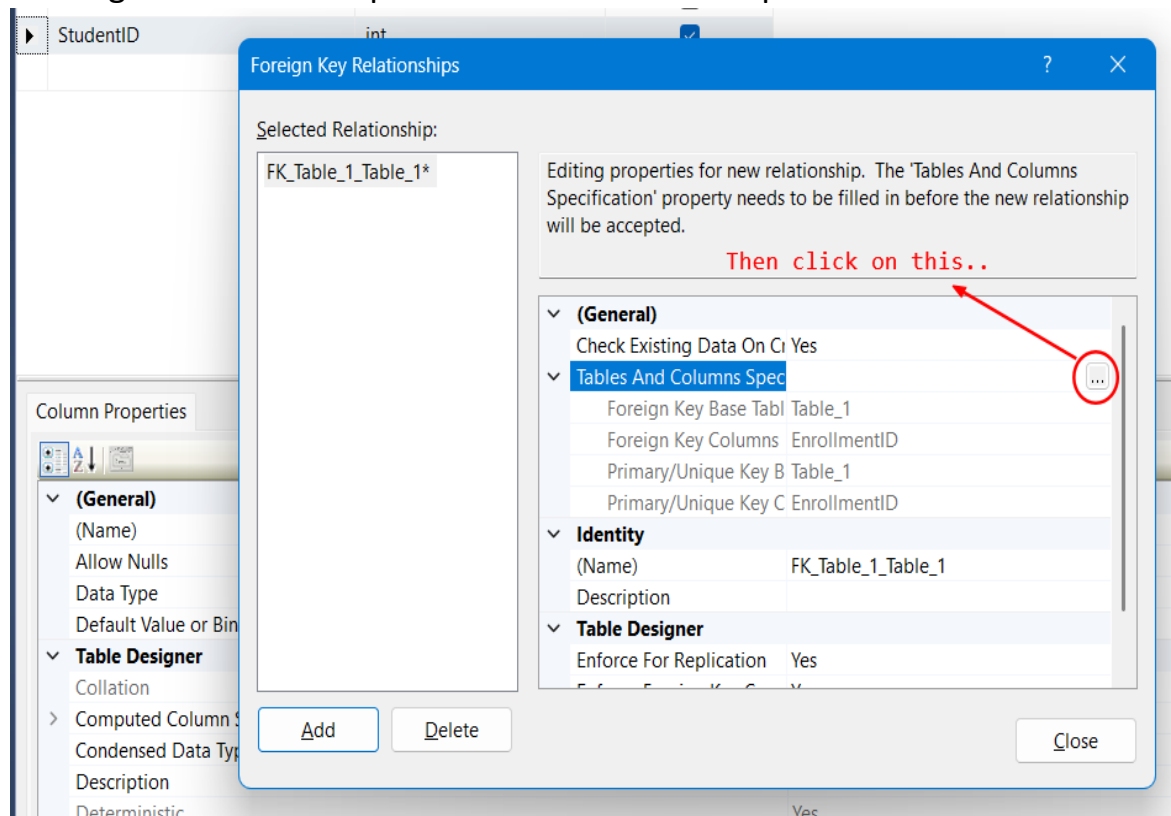
- Opening the Relationships Window
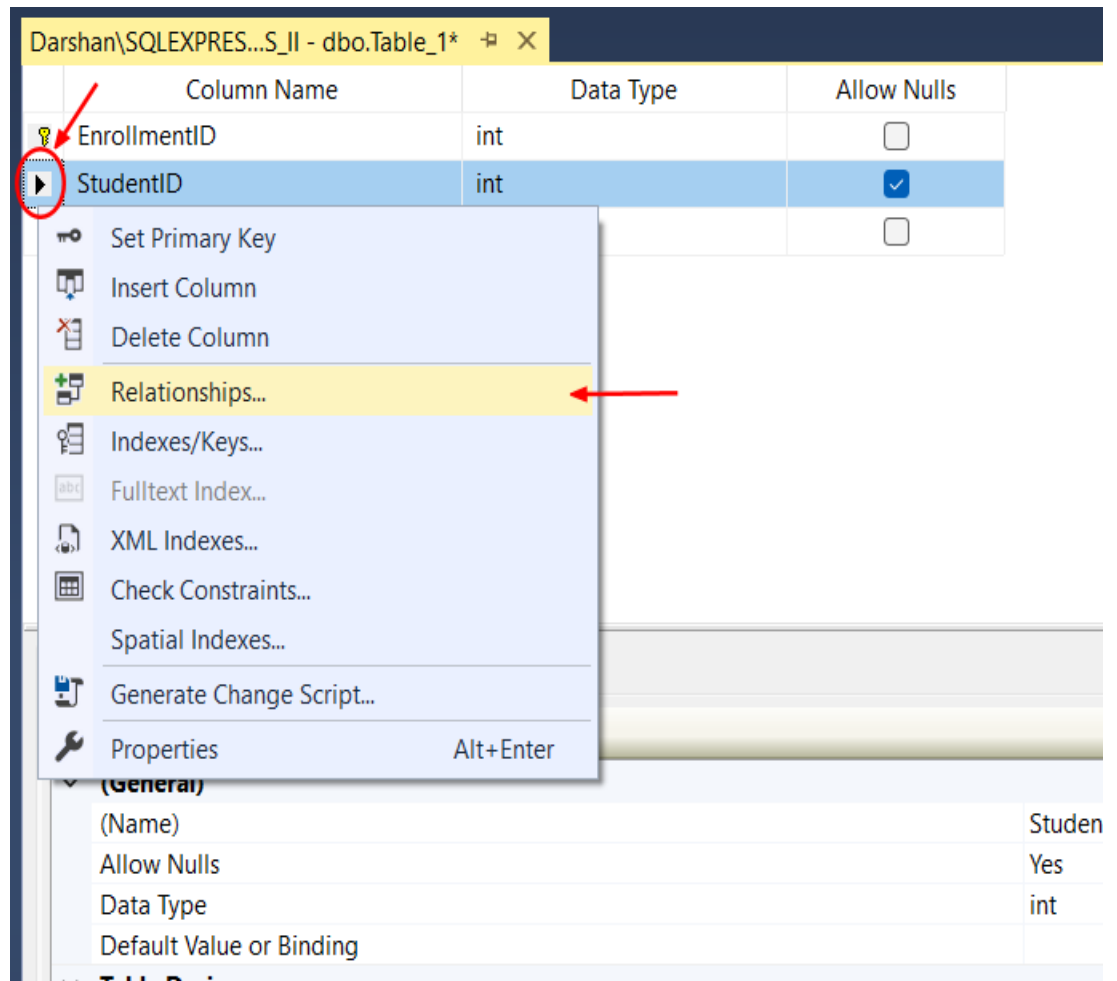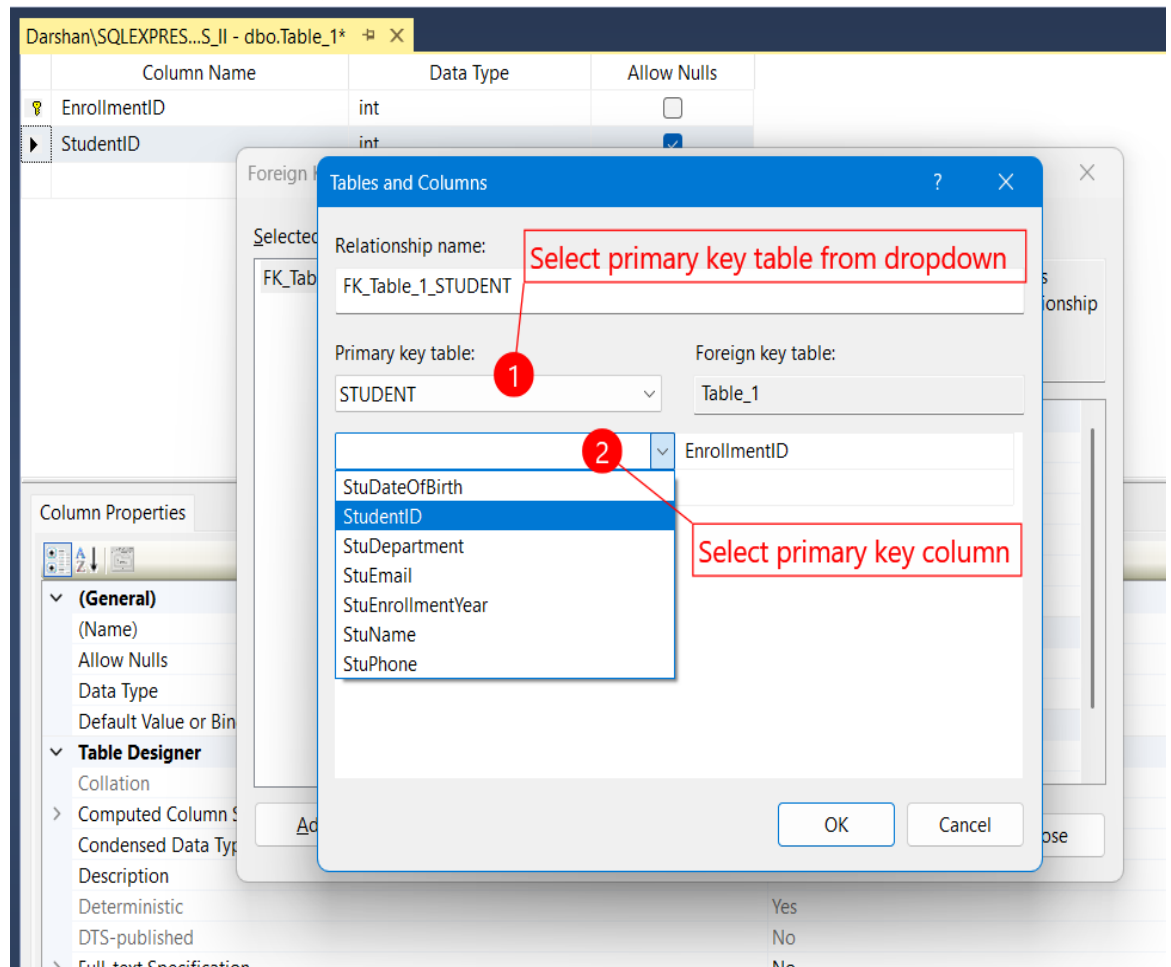

- Adding a New Relationship

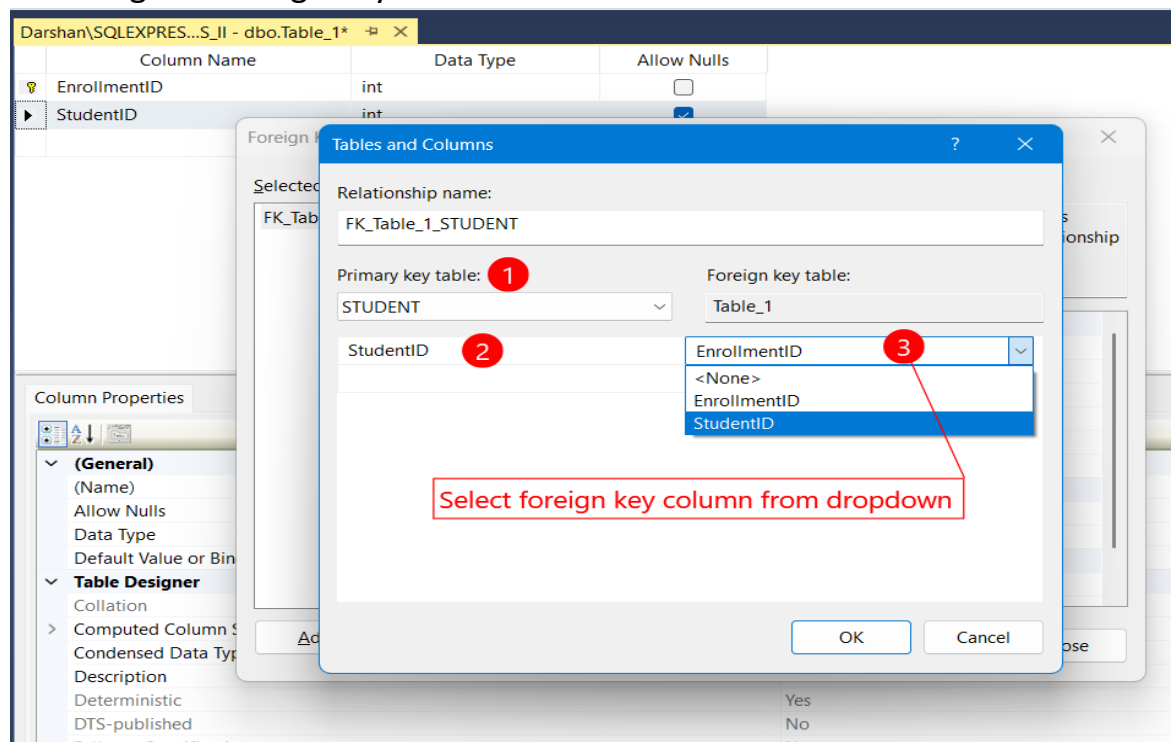- Opening "Tables and Columns Specification"

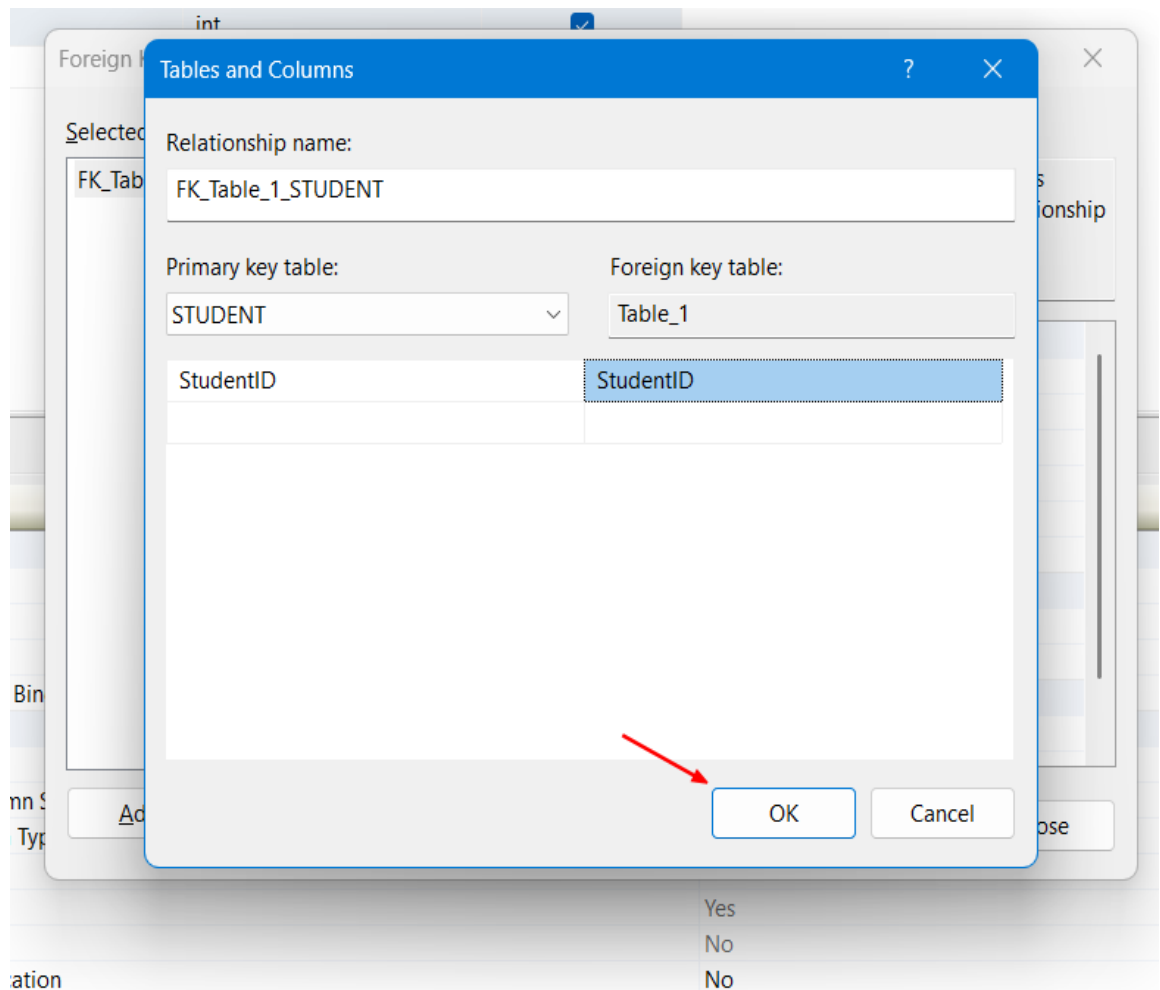- Clicking the Button to Open Tables and Columns Specification

- Selecting the Primary Key Table and Column
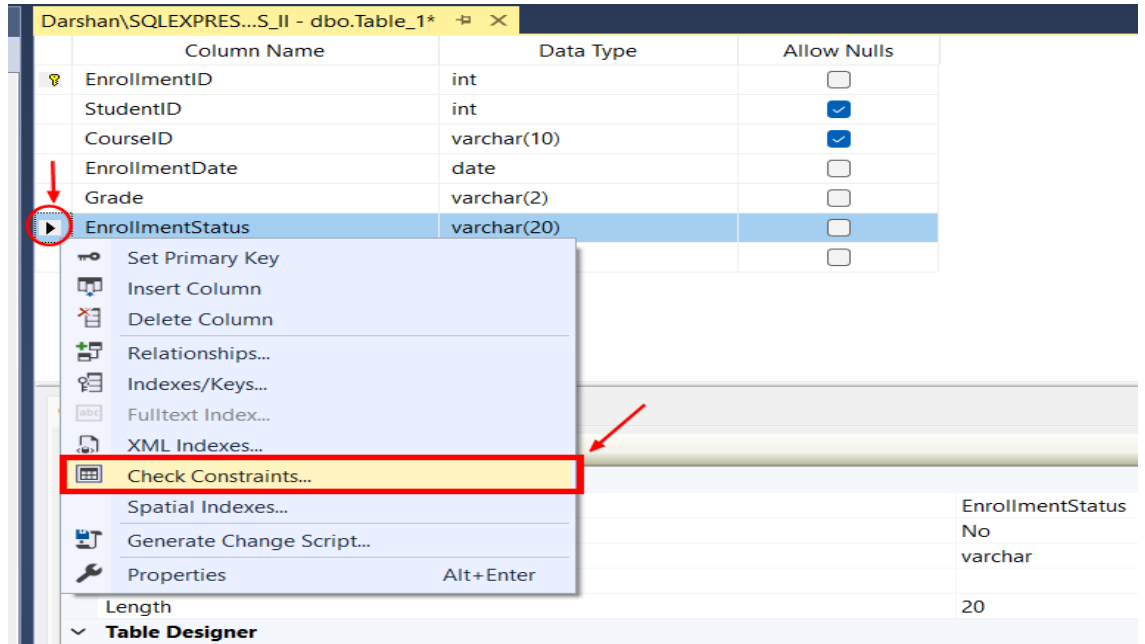

- Selecting the Foreign Key Column
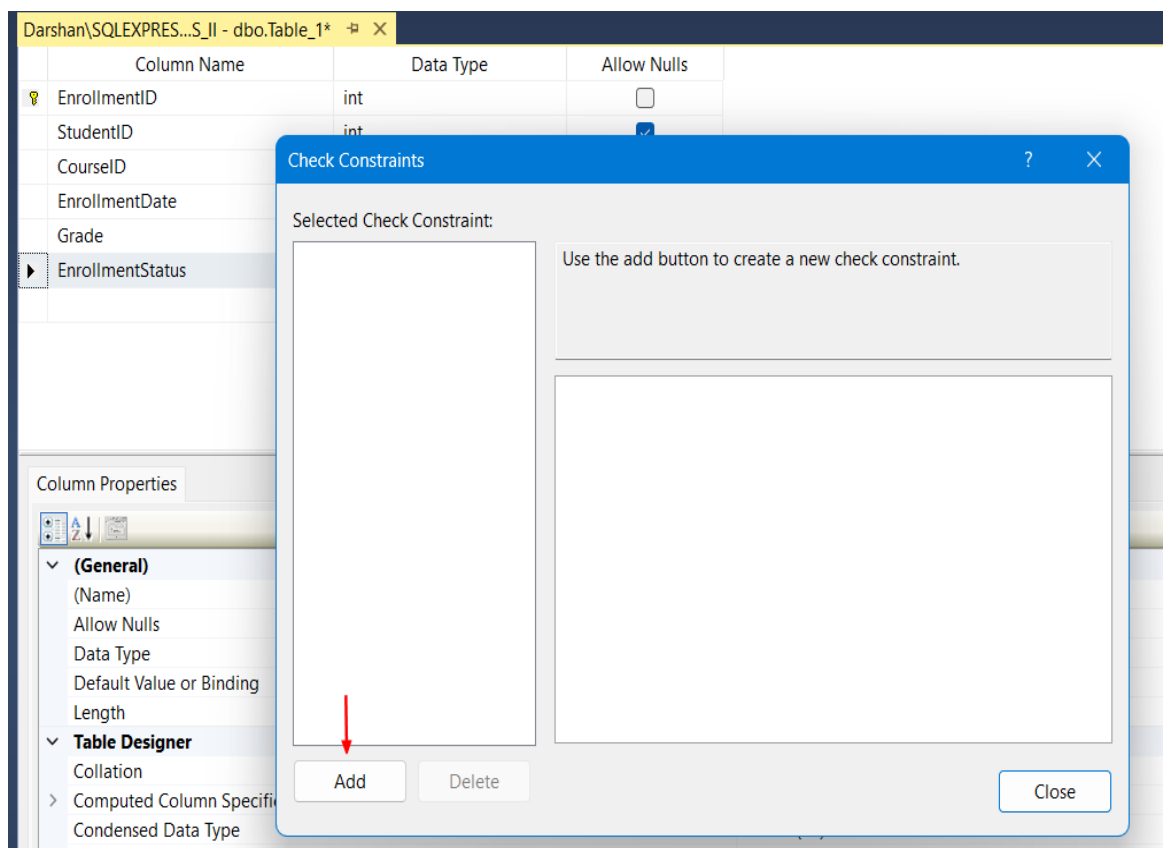
- Confirming the Foreign Key Mapping
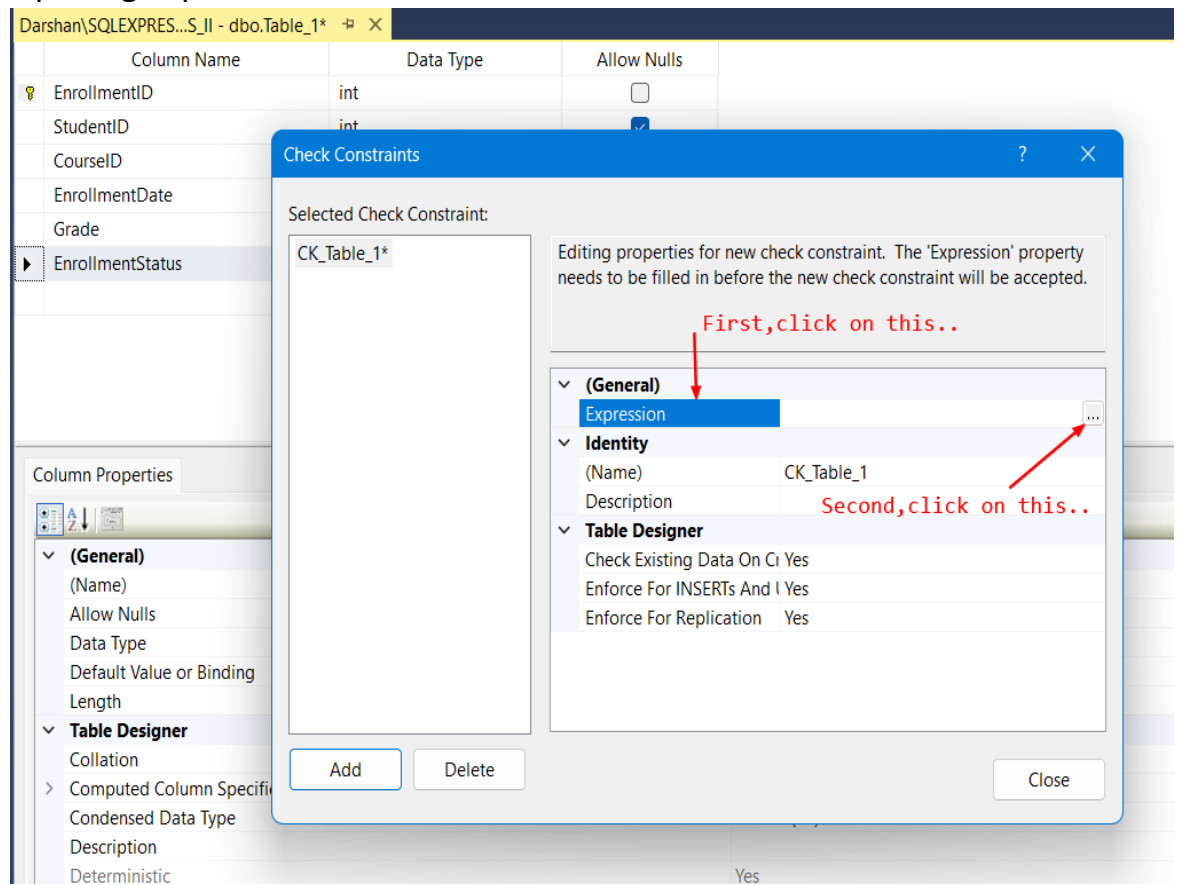
6. Setting Check Constraint

- Opening Check Constraints

- Adding a New Check Constraint

- Opening Expression Editor

- Entering the Check Constraint Expression

Created by Darshan