

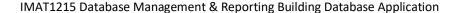
Student Name: Janzeb Masiano

Monday, 29 October 2018

Student Number: P2430705

## **IMAT1215** Database Management & Reporting Building Database Application

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#### Introduction

#### **DMU Box Scheme Database Application prototype**

The DMU Box Scheme Database Application prototype was successfully developed using MS Visual Studio and the guidance and instructions in the handout supplied to me by my tutor. I would like to mention that all images were downloaded from the internet and although I may have edited some of the images, I am not responsible for creating them. I have chosen the images to add a sparkle to the design and for a bit of fun.

The System was then tested using extra data that I was supplied with. During the testing process extra data was loaded into a Stored Procedure, which was saved to the database and then executed.

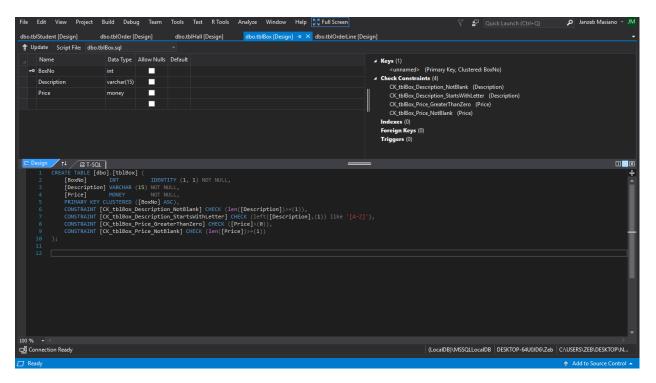
The following are screenshots of the results of your prototype system. These include the table definitions, table data, relationships diagram, forms and reports.

#### **Zip File**

To accompany this document there is also a zipped copy of the MS Visual Studio folders and files. The name of the zipped up file is P2430708-JMasiano-DMUBox2018. Furthermore the work can be demonstrated on request.

#### **Table Definitions and Table Data**

## tblBox

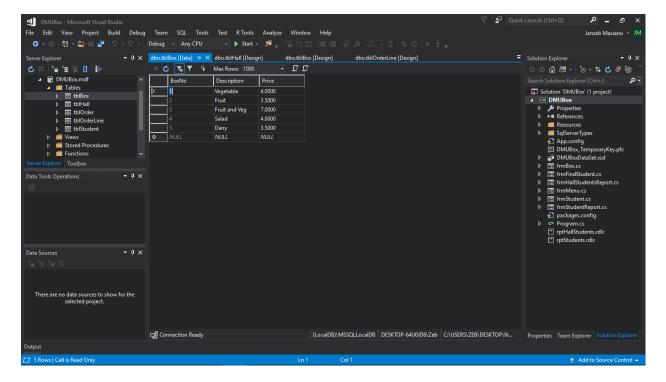




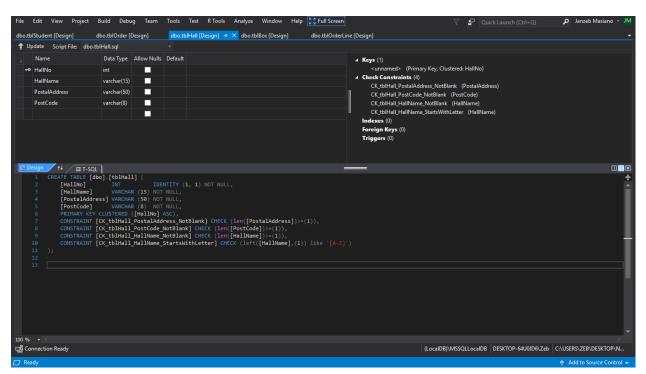
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## tblHall

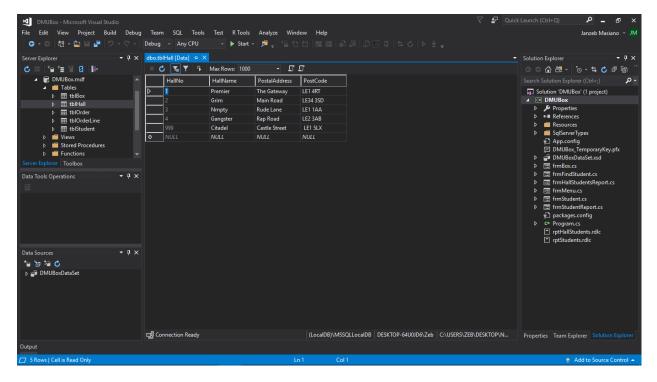




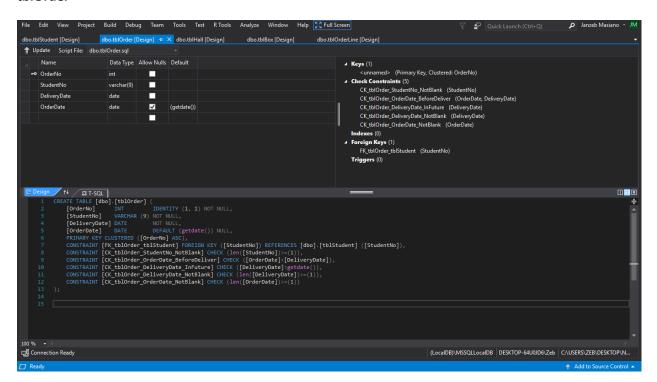
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#### tblOrder

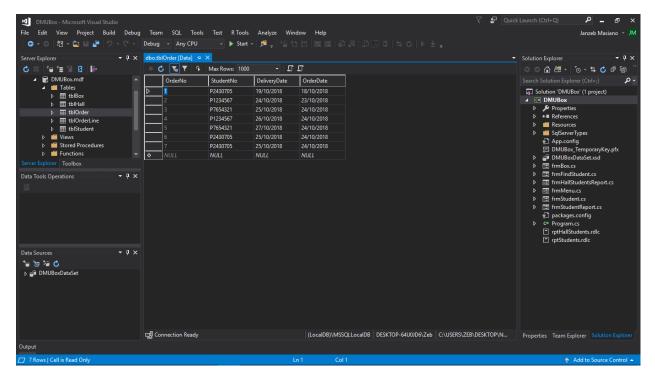




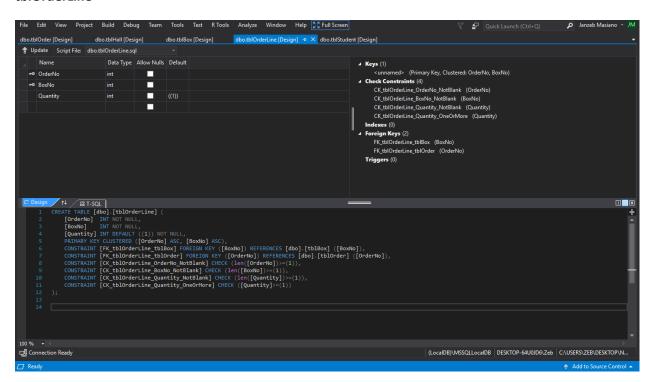
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#### tblOrderLine

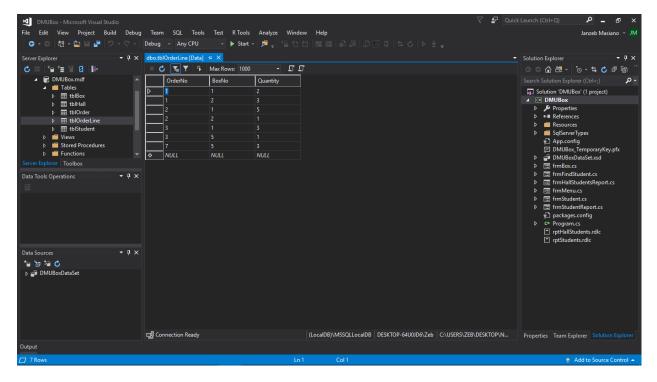




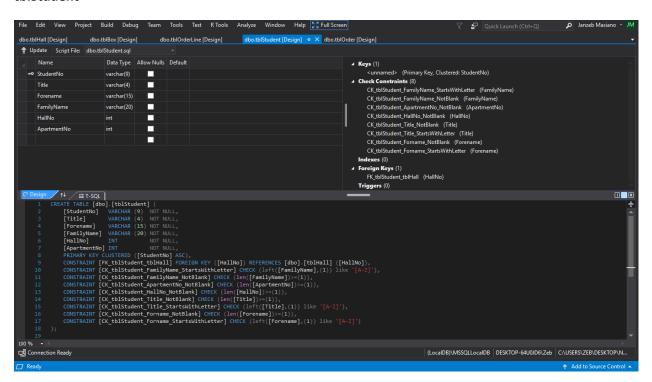
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#### tblStudent

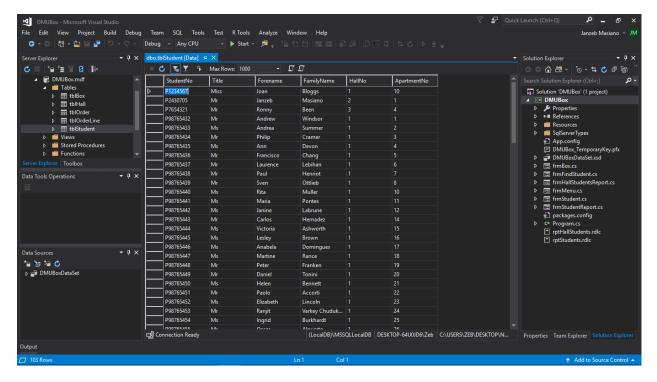




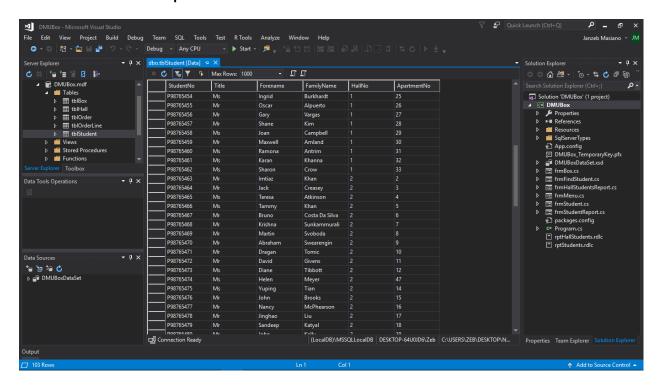
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## tblStudent table data 2<sup>nd</sup> part...



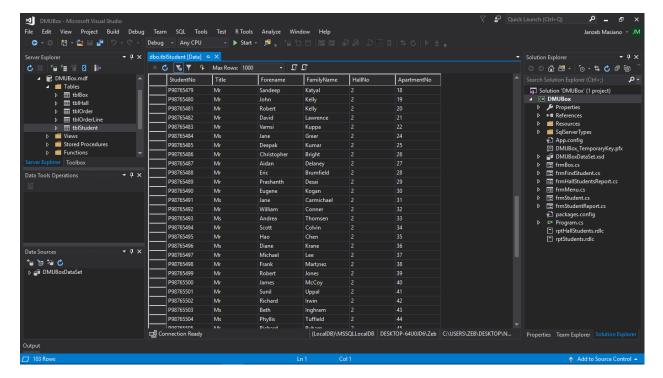


Student Name: Janzeb Masiano

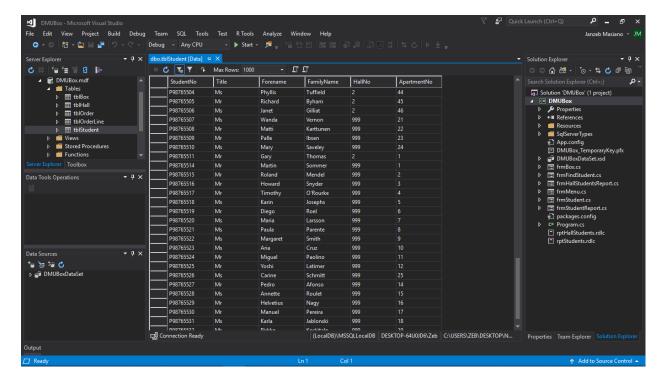
Student Number: P2430705

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# tblStudent table data 3<sup>rd</sup>part...



## tblStudent table data 4th part...



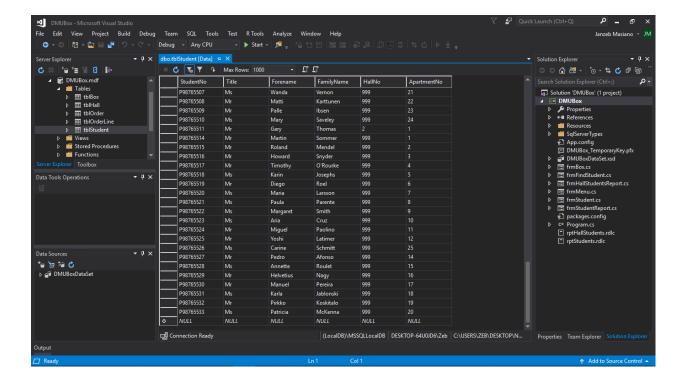


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# tblStudent table data 5<sup>th</sup> part...





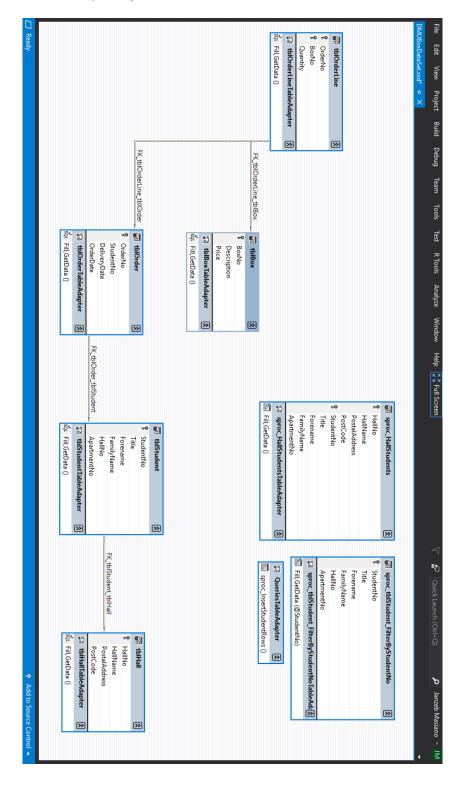


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## **Relationships Diagram**



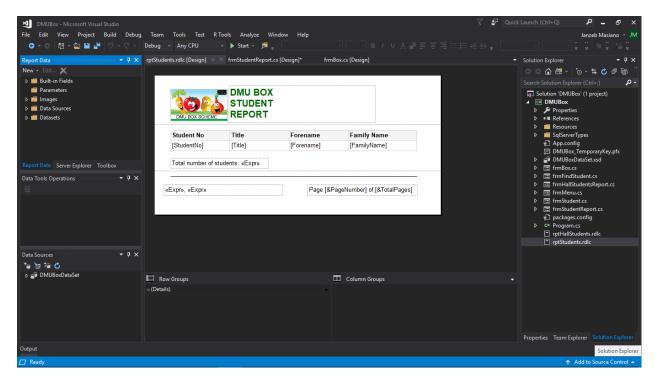


Student Name: Janzeb Masiano

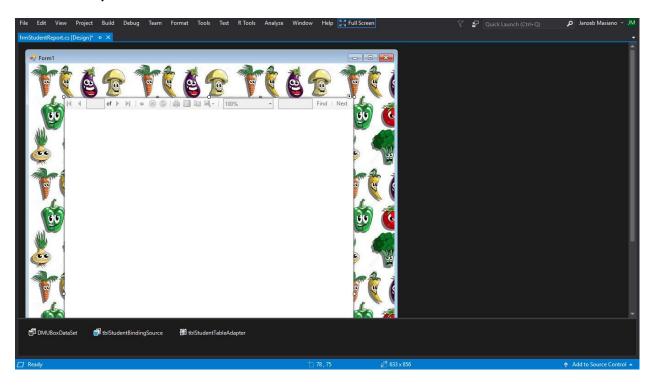
Monday, 29 October 2018 Student Number: P2430705

## **Reports and Forms**

## rptStudents.rdlc



#### frmStudentReport.cs



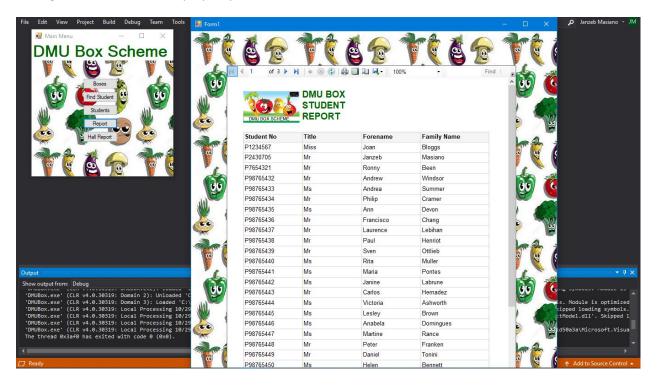


Student Name: Janzeb Masiano

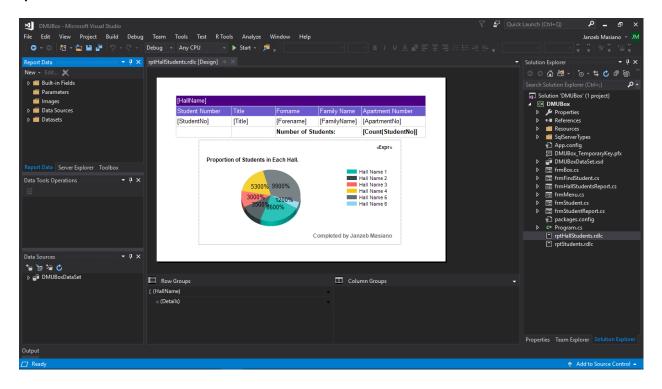
Student Number: P2430705

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## During runtime the form displays report:



#### rptHallStudents.rdlc



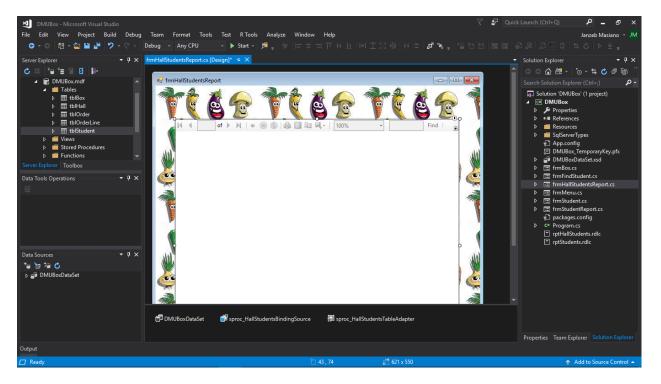


Student Name: Janzeb Masiano

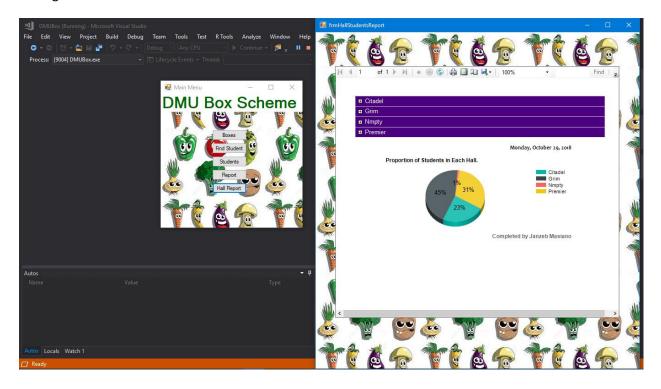
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## frmHallStudentsReport.cs



## During runtime:



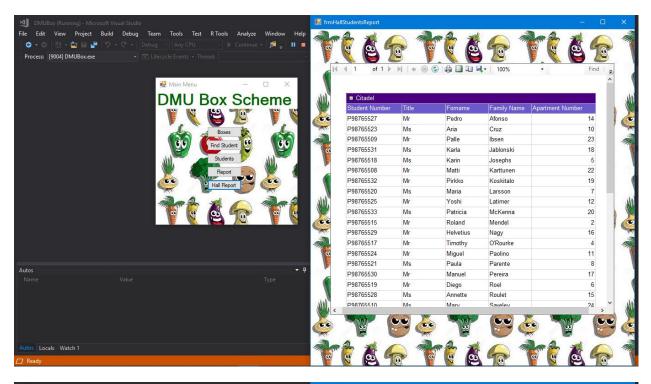
Can toggle each column to reveal data that can be scrolled using the sidebar:

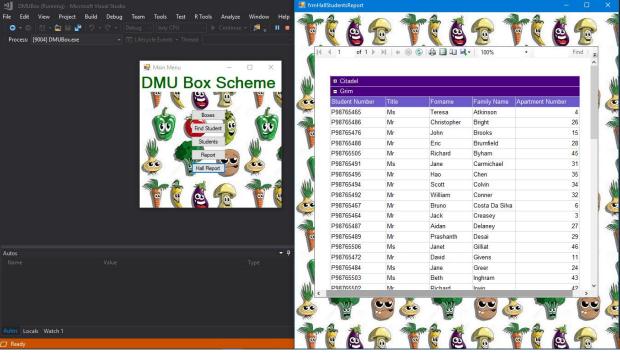


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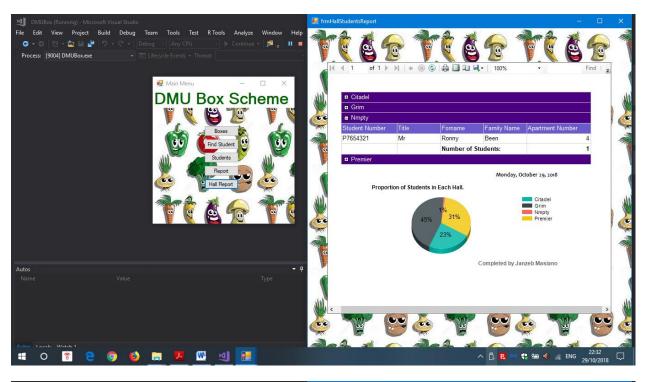


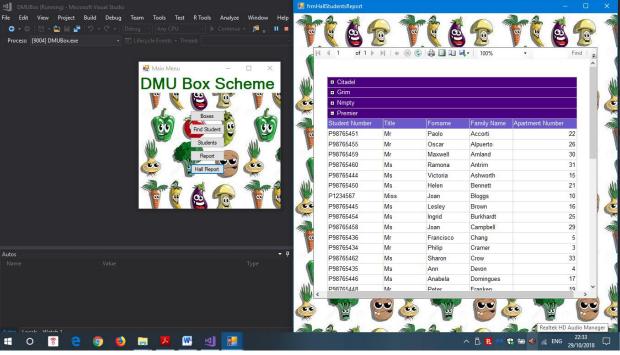


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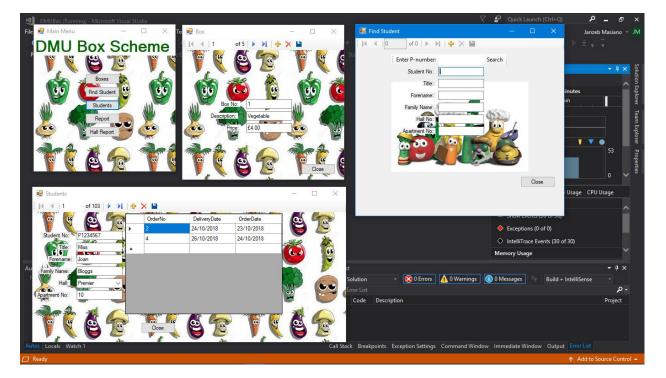


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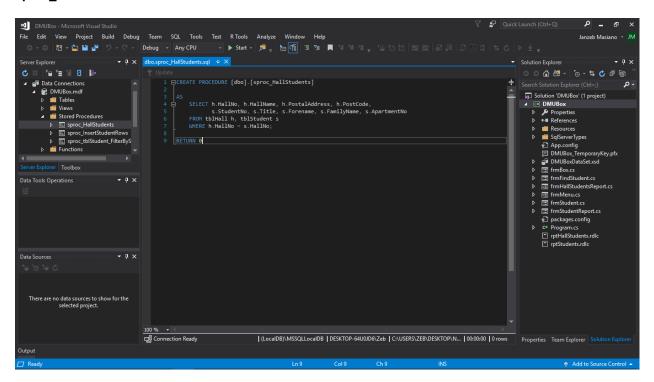
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## The Menu form (frmMenu), Box form (frmBox), Find Student (frmFindStudent) and Students form (frmStudent):



## **Stored Procedures**

## Sproc\_HallStudents





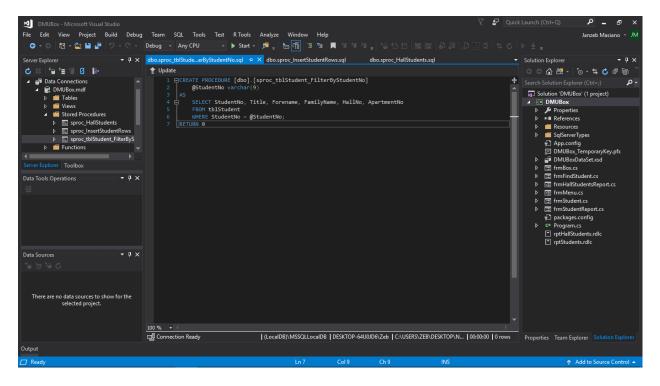


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## Sproc\_tblStudent\_filterByStudentNo



#### Sproc\_InsertStudentRows

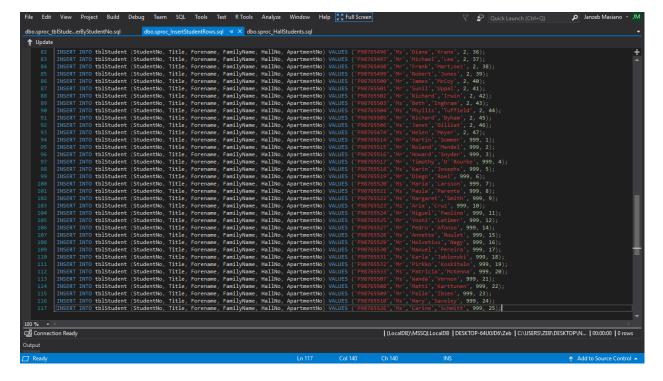


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## Continues up to line 117...



## **Supplementary Information**

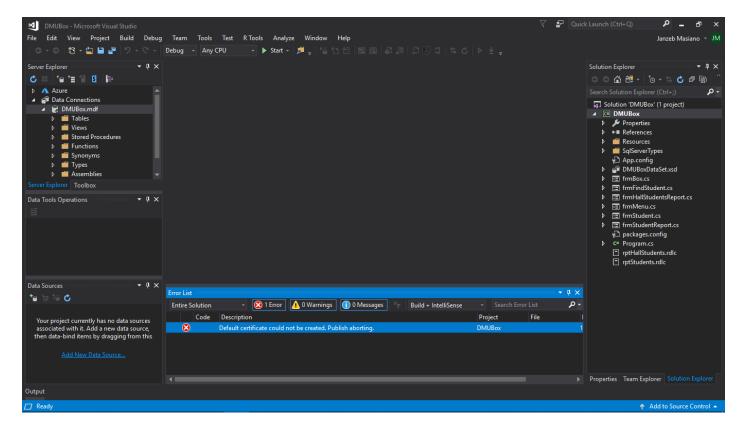
In addition to the completion of the project, I would like to mention there were some errors when attempting to publish my work. Although the process appeared to complete, an error was displayed and the executable application was not visible in the designated file location, pointed to by the file path.



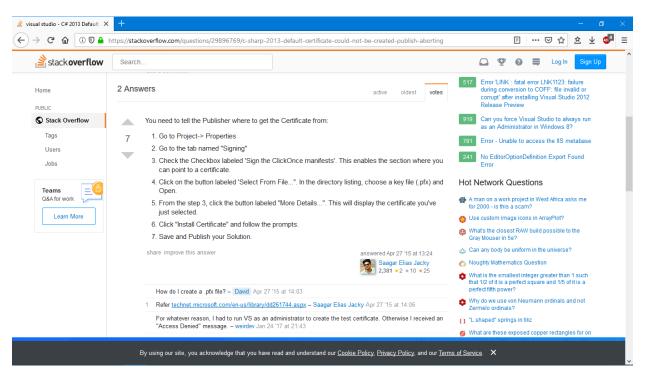
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This problem was resolved by following a solution on the stackoverflow.com website, found through google search:



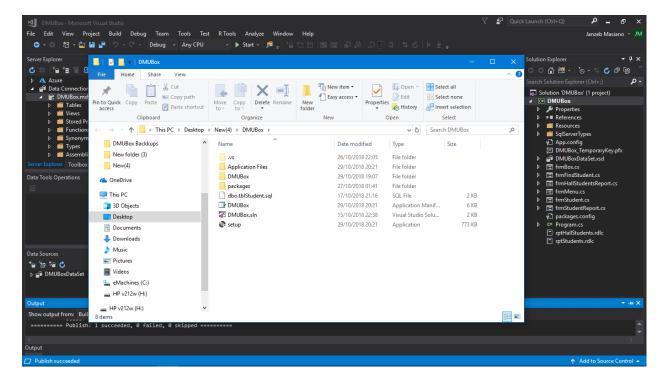
Following the instructions above led to successful publishing of the work.



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Followed by a successful installation as indicated by the icon in the Windows start menu of my PC:







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#### Conclusion

The DMU Box assignment in my opinion is a great introduction to database design. It takes someone who is completely new to database design on a guided visual journey and navigates them through a complex software environment, in a stage by stage process. The whole process is a key opportunity for someone to learn about the various parts of a database and gives the learner an opportunity to familiarize themselves with basic code that's performs the backbone of database design operations. My personal experience has enabled me to familiarize myself with key features of Visual Studio. I have been introduced to the patterns of naming for table entities, SQL code, stored procedures, as well as other fundamental concepts such table adapters, datasets, data sources, bindings and also, controls and aesthetics to enhance the look and feel of the database. Also, during the educational journey, I have come across some errors and researching and investigating solutions has helped me to expand my understanding and further developed my knowledge of databases and Visual Studio.