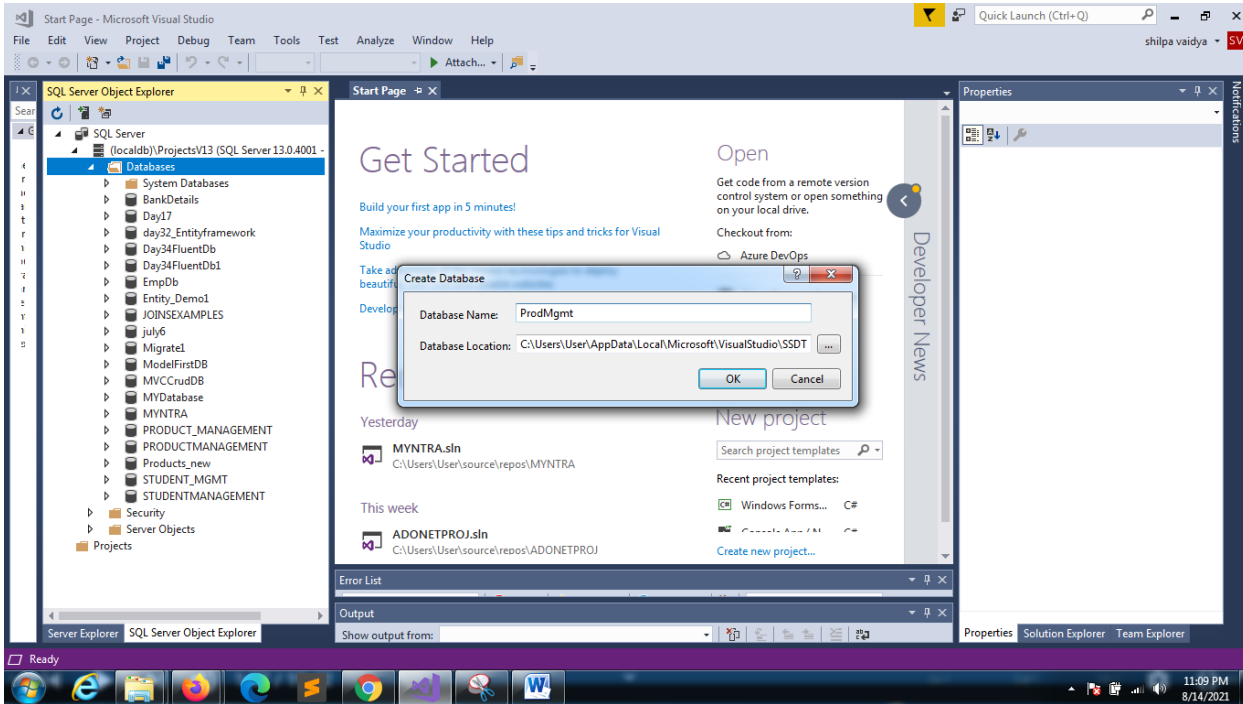
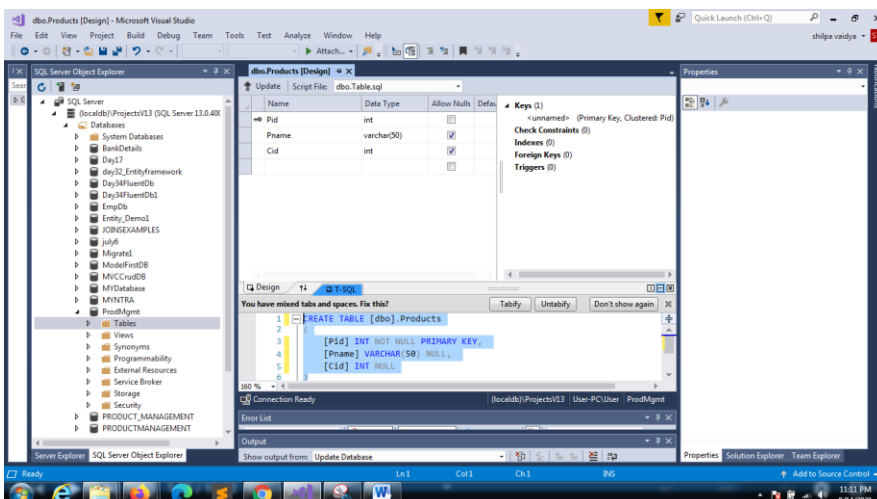


Create database



CREATE TABLE [dbo].Products

```
(  
    [Pid] INT NOT NULL PRIMARY KEY,  
    [Pname] VARCHAR(50) NULL,  
    [Cid] INT NULL  
)
```

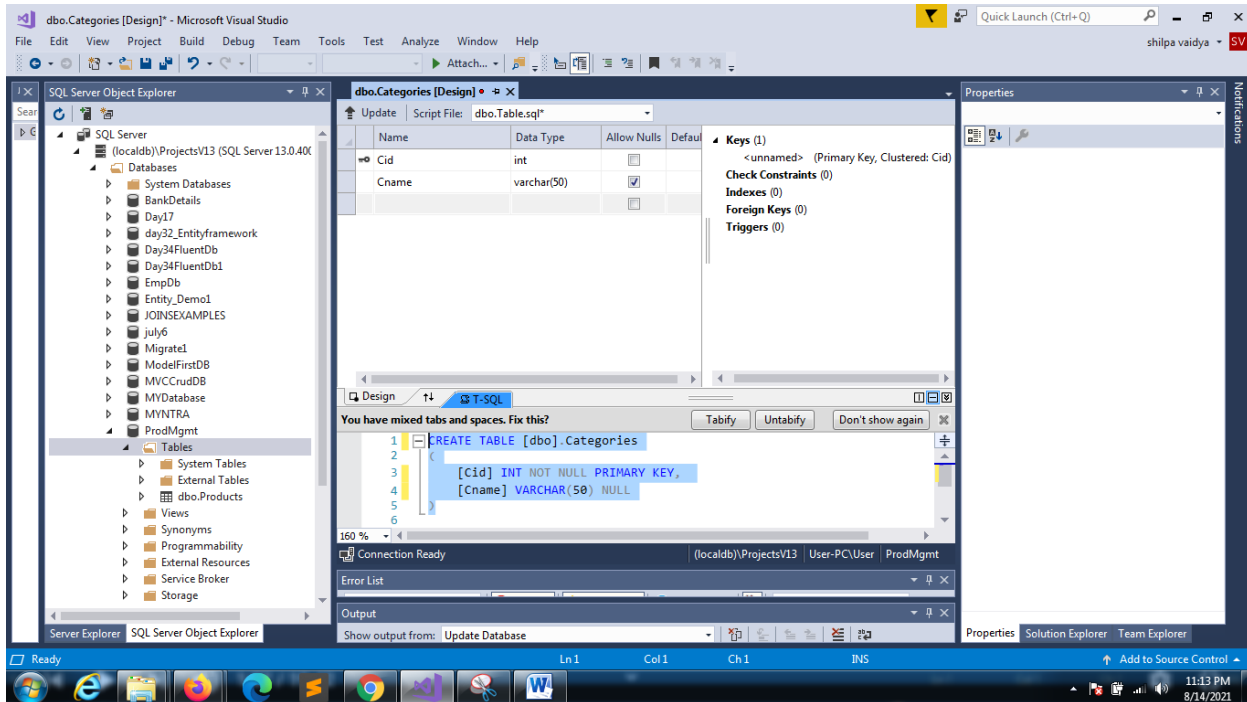


CREATE TABLE [dbo].Categories

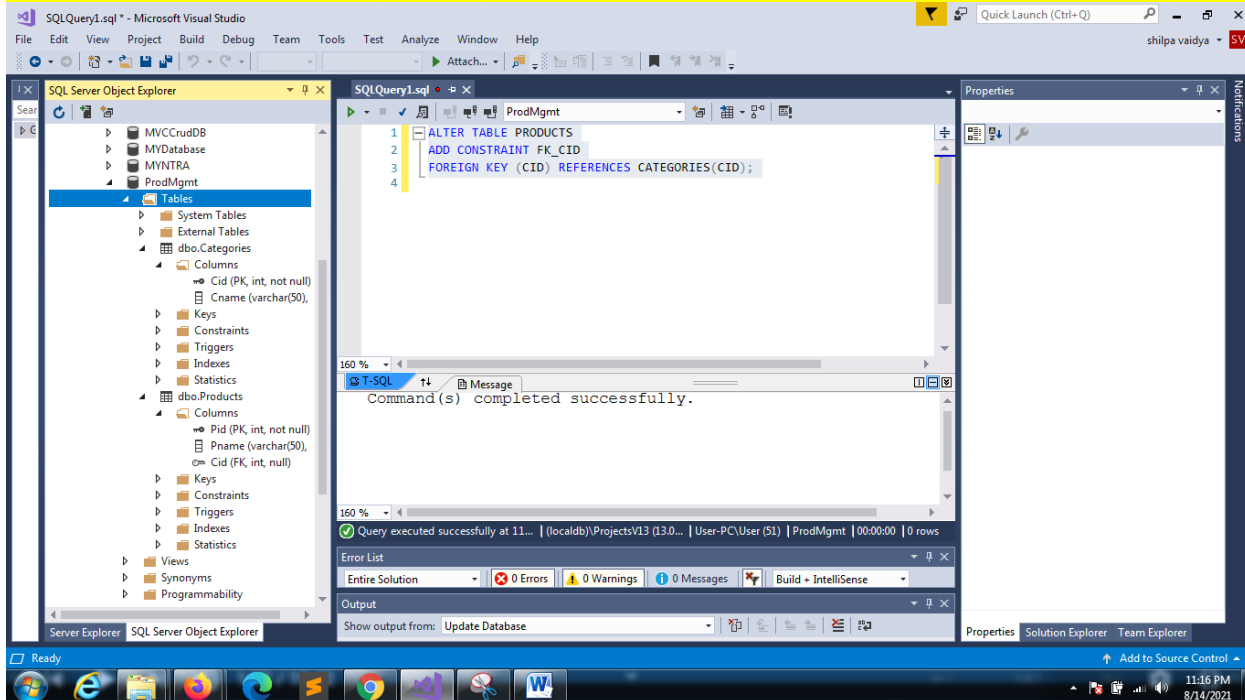
(

[Cid] INT NOT NULL PRIMARY KEY,
[Cname] VARCHAR(50) NULL

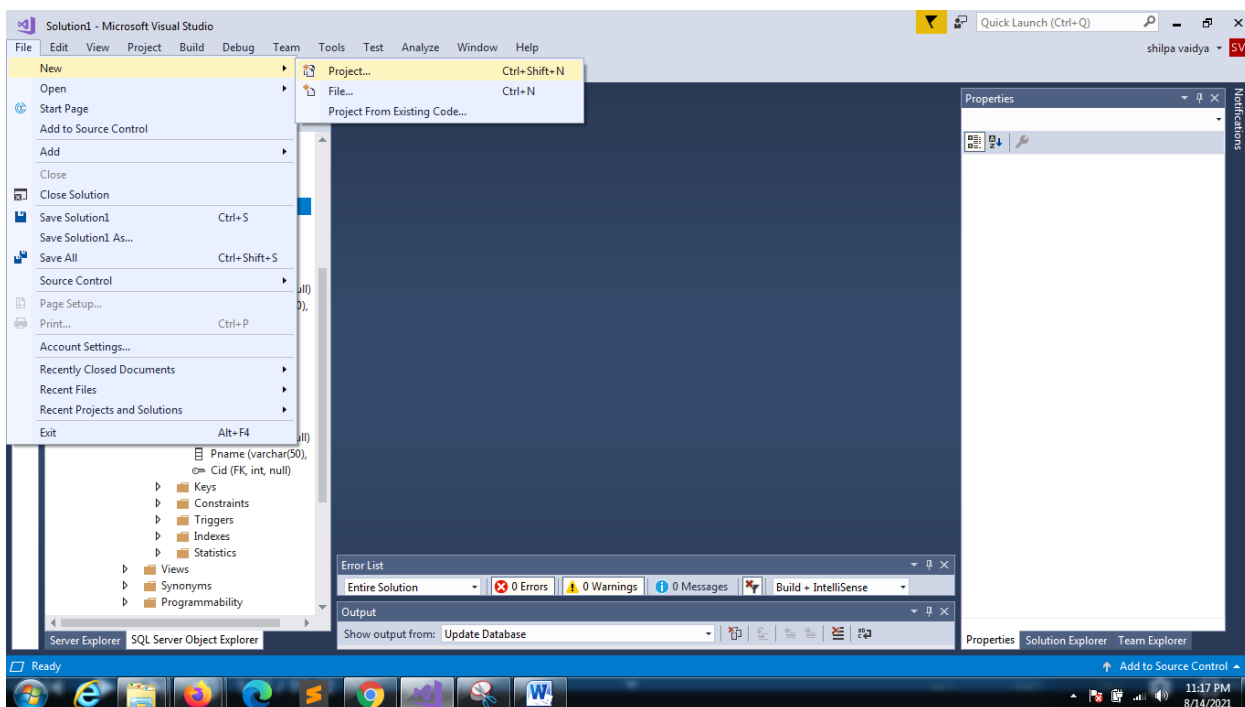
)



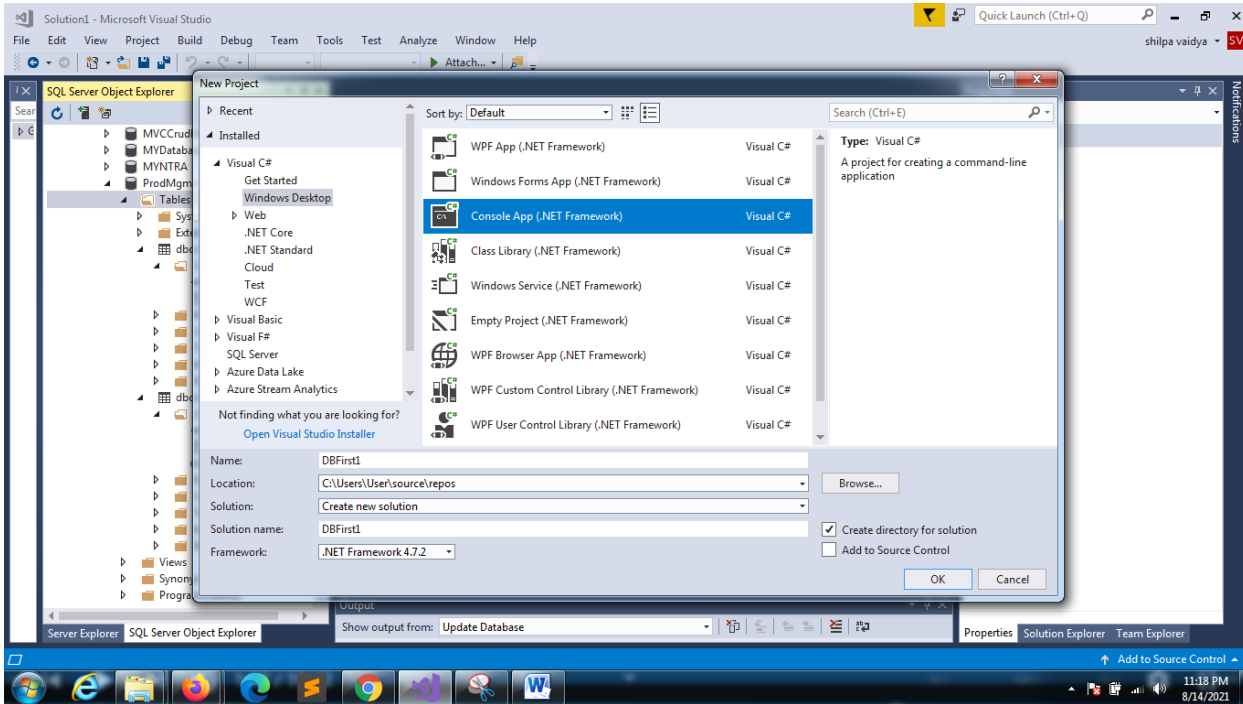
ALTER TABLE PRODUCTS
ADD CONSTRAINT FK_CID
FOREIGN KEY (CID) REFERENCES CATEGORIES(CID);



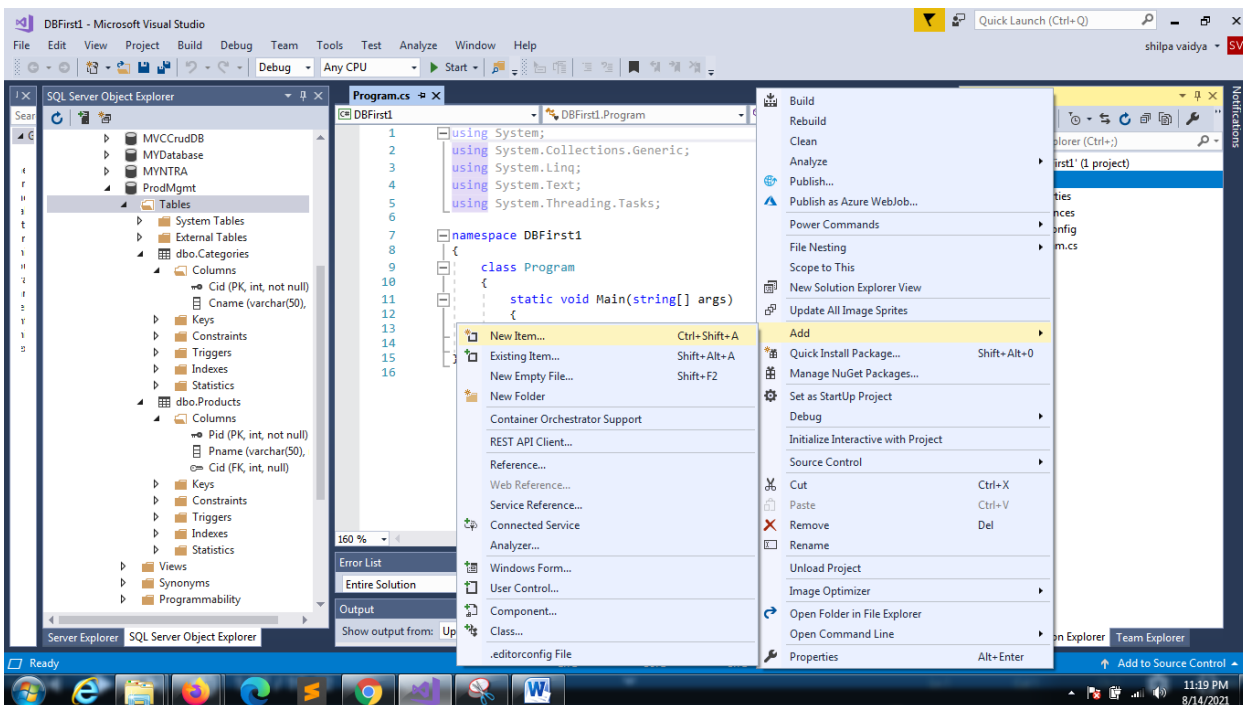
CREATE NEW PROJ



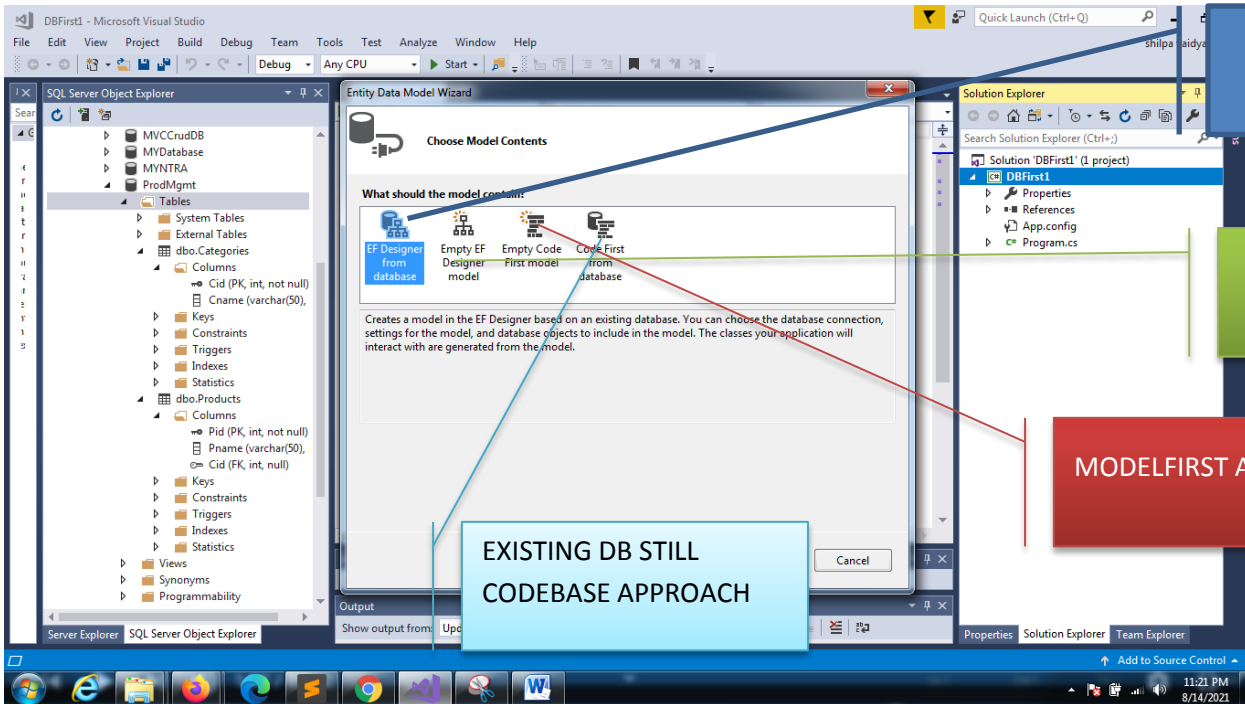
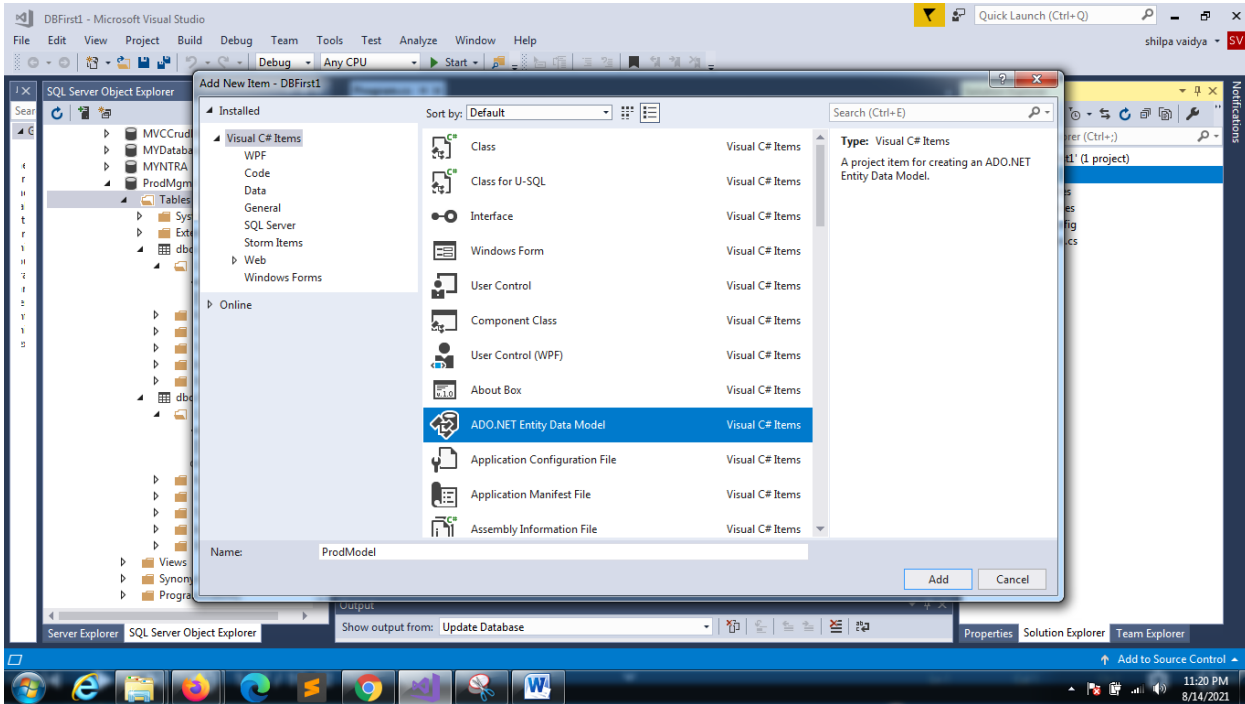
CONSOLE APPLICATION



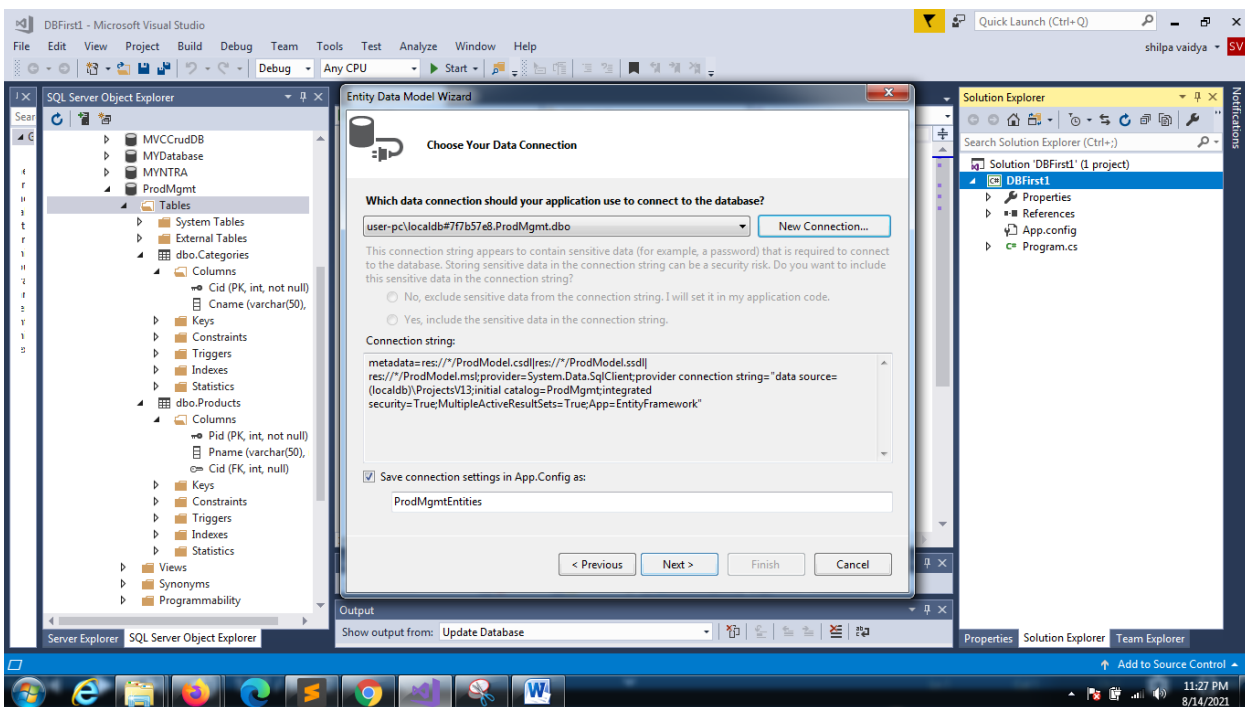
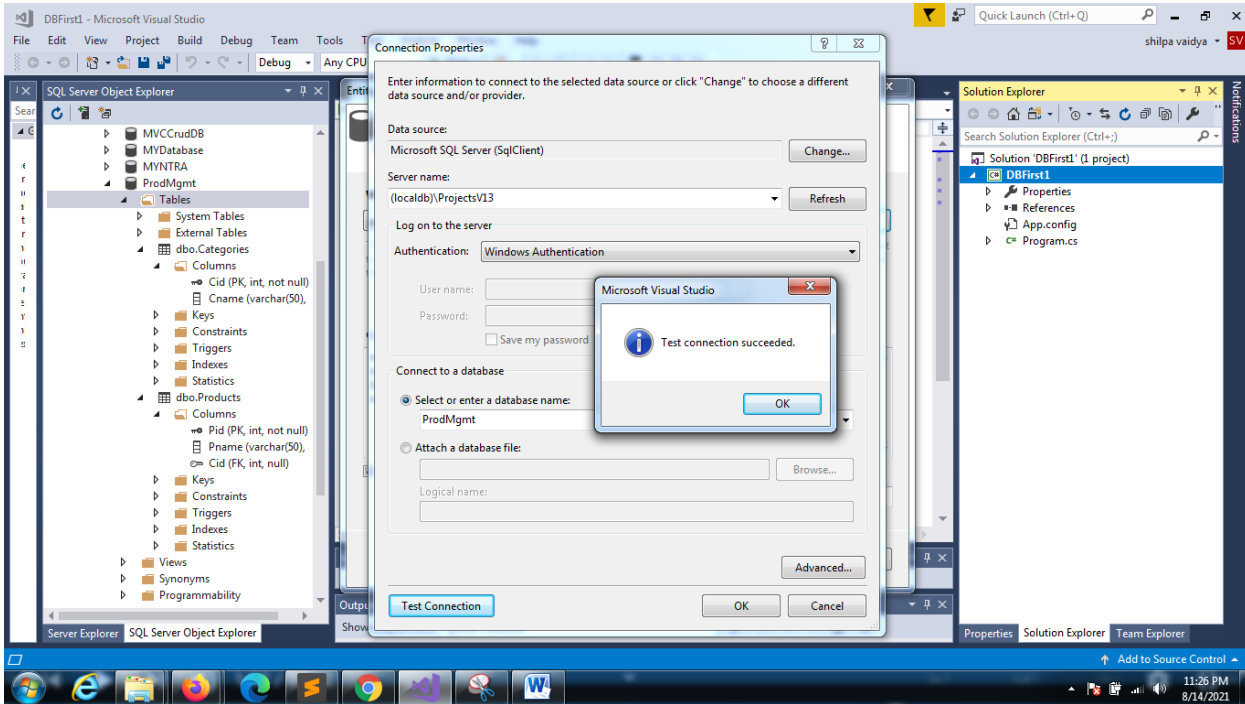
Add new project item

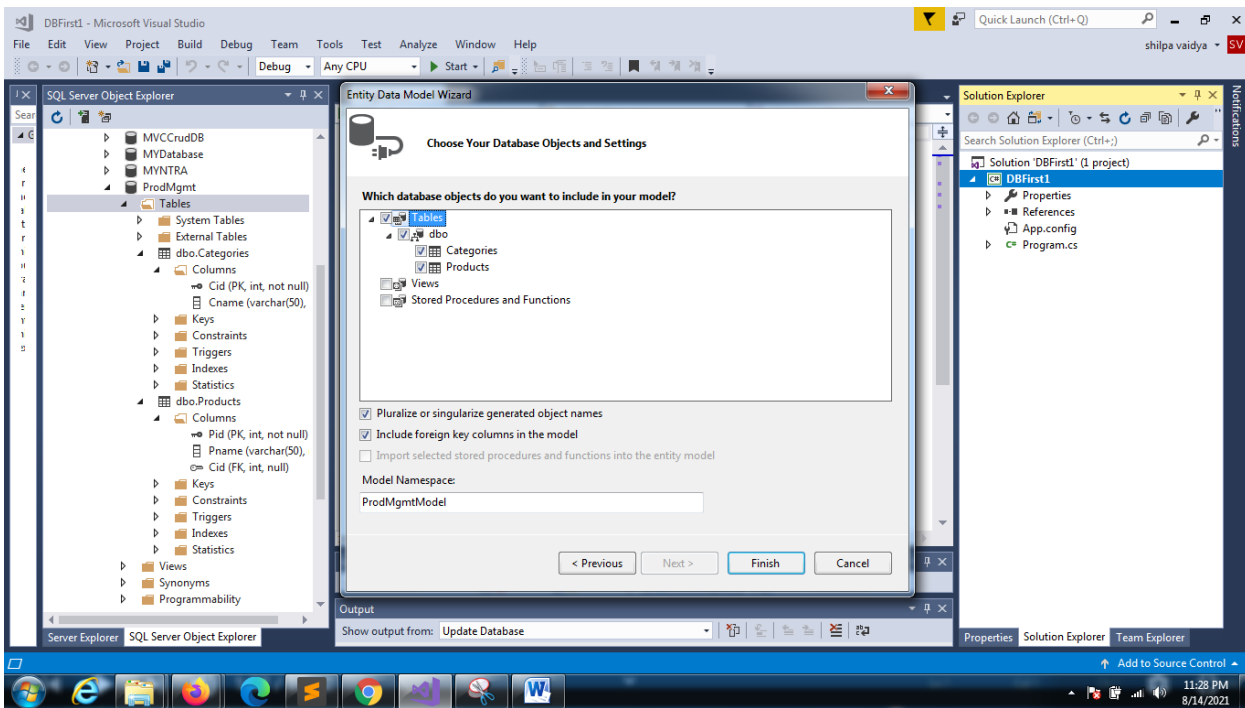


SELECT ADO.NET

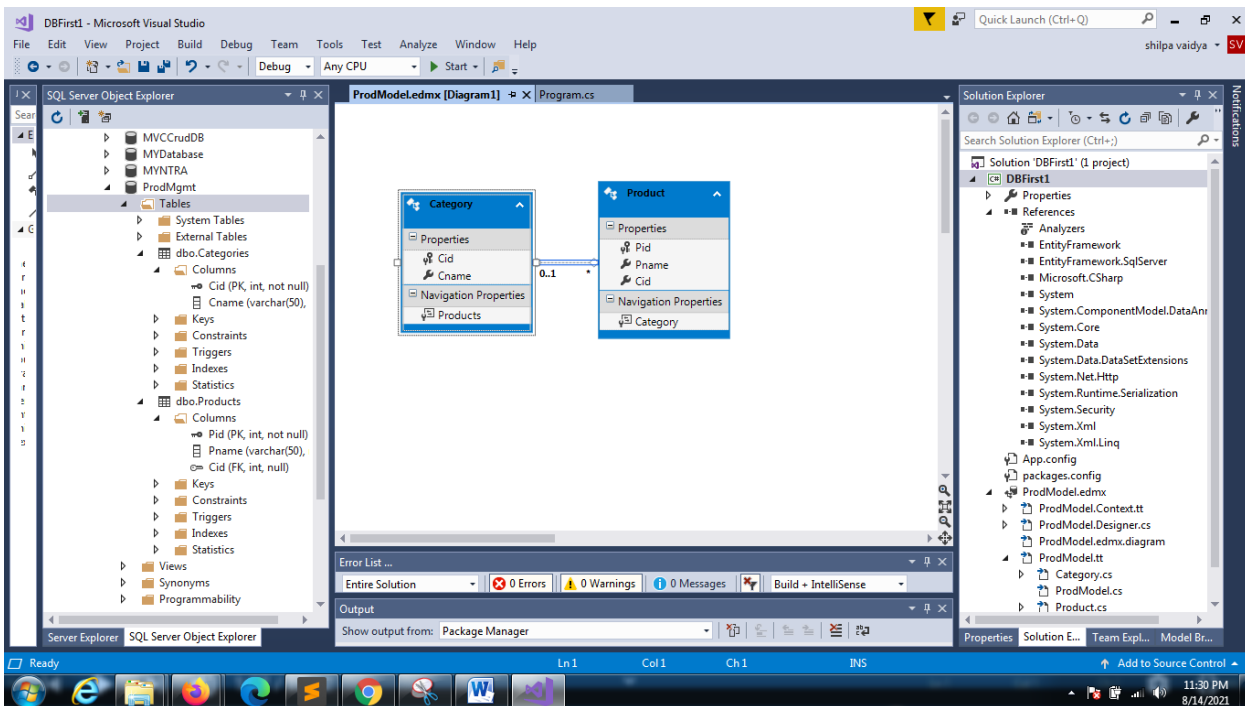


NEW CONNECTION

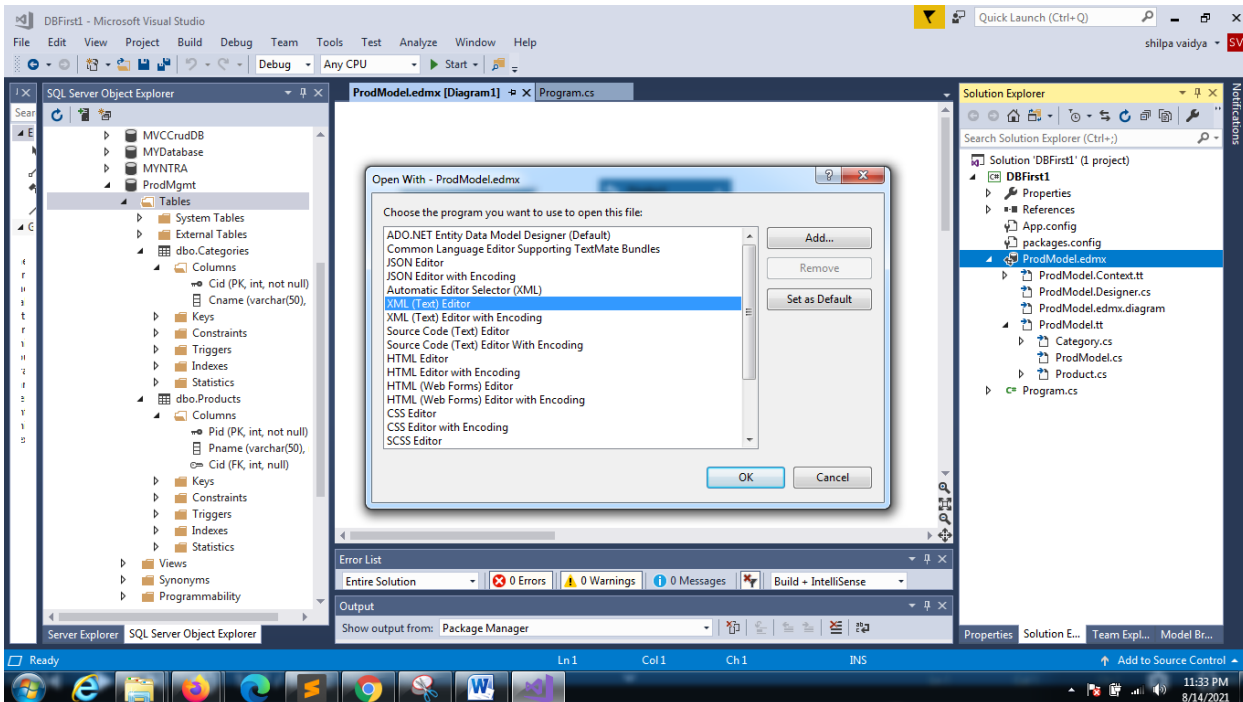
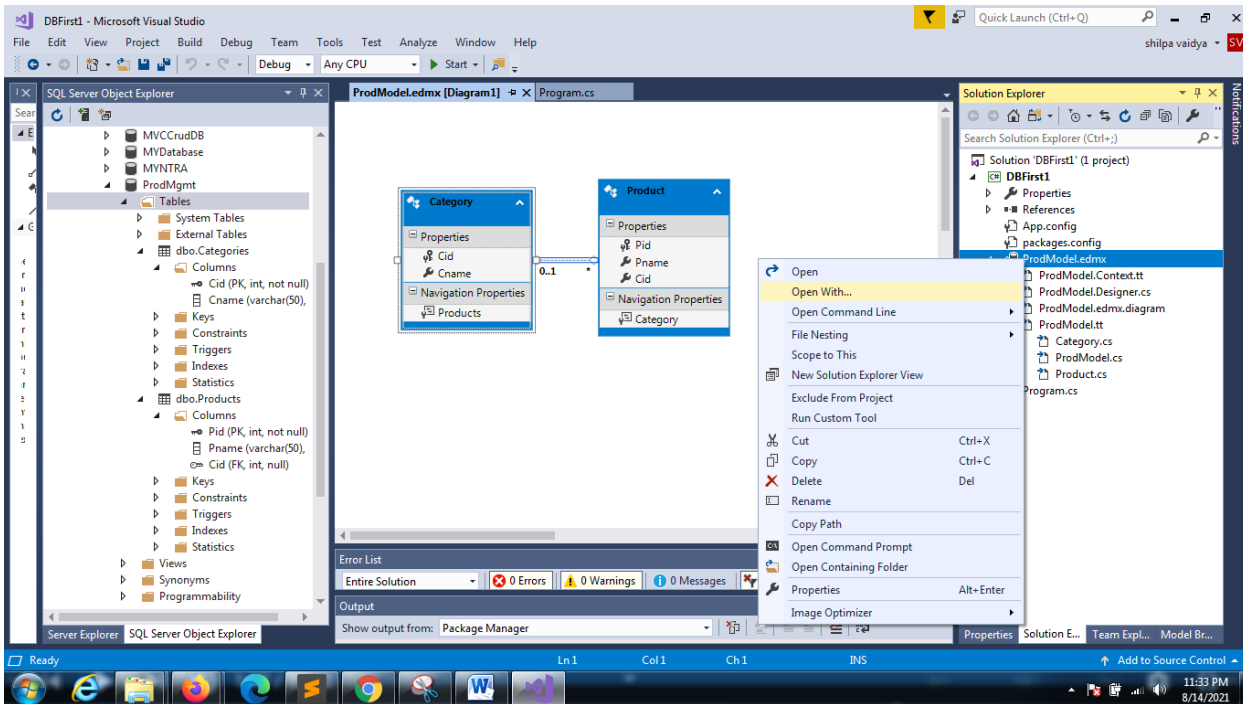


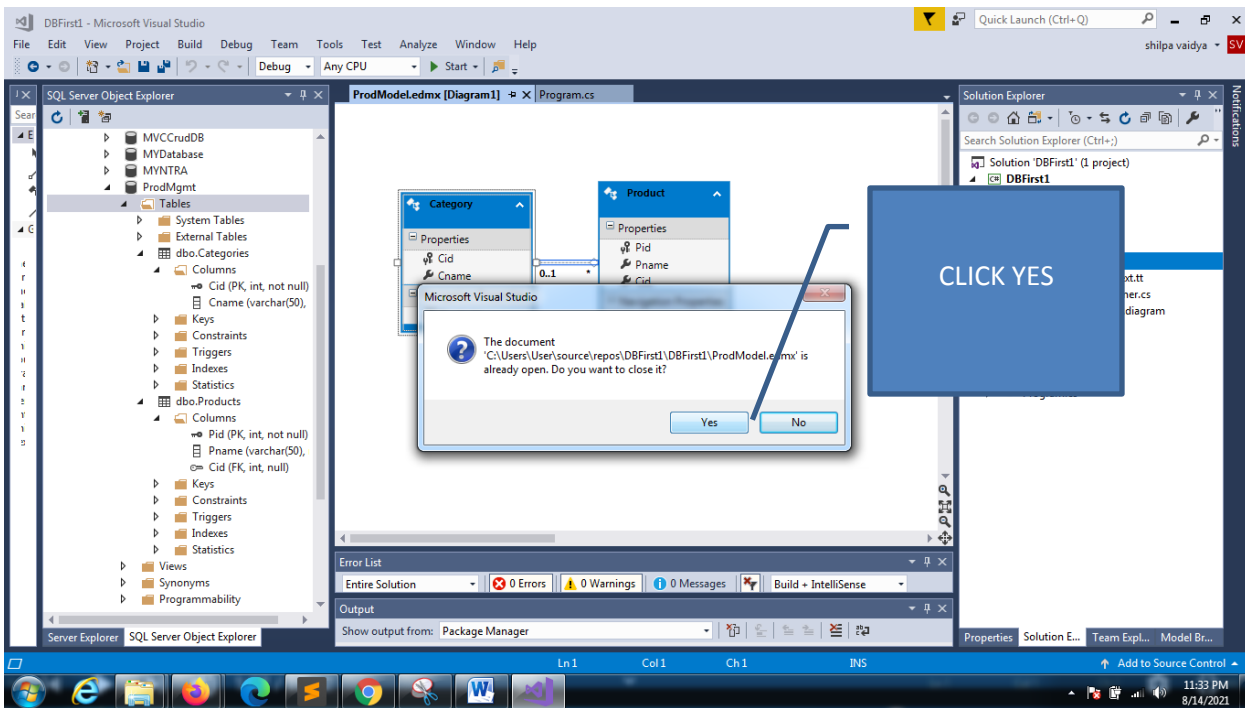


EDMX FILE WILL BE CREATED

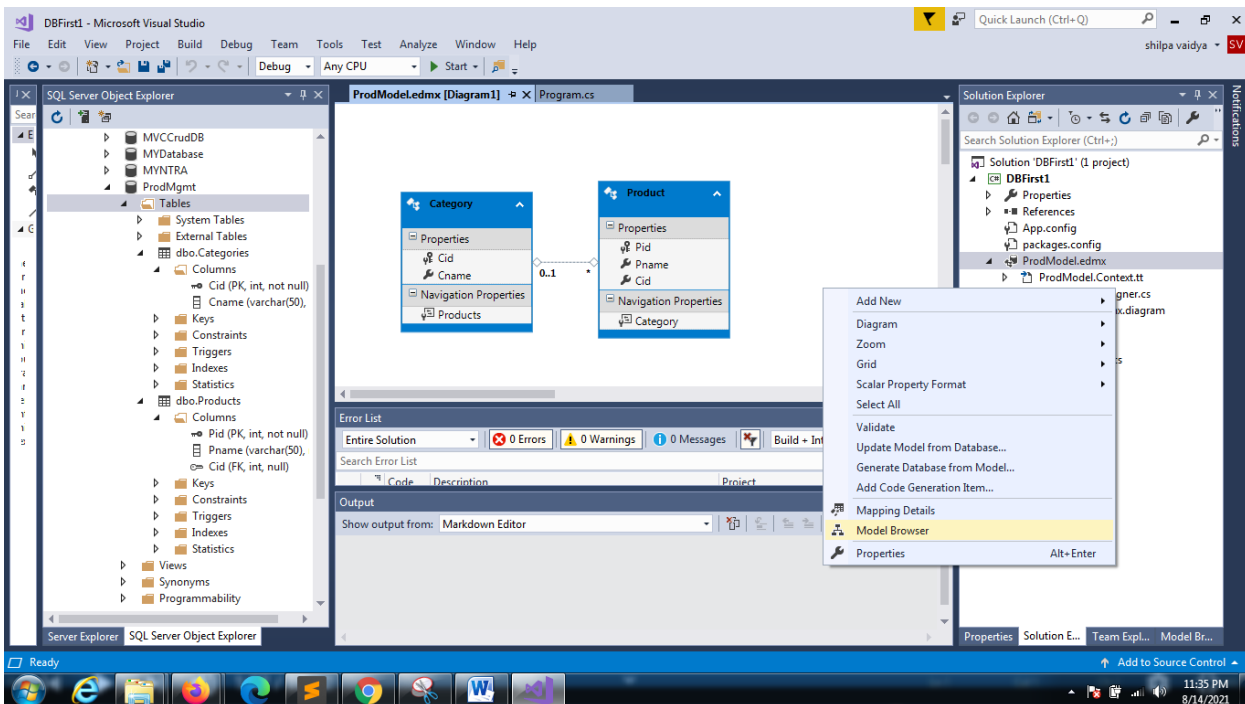


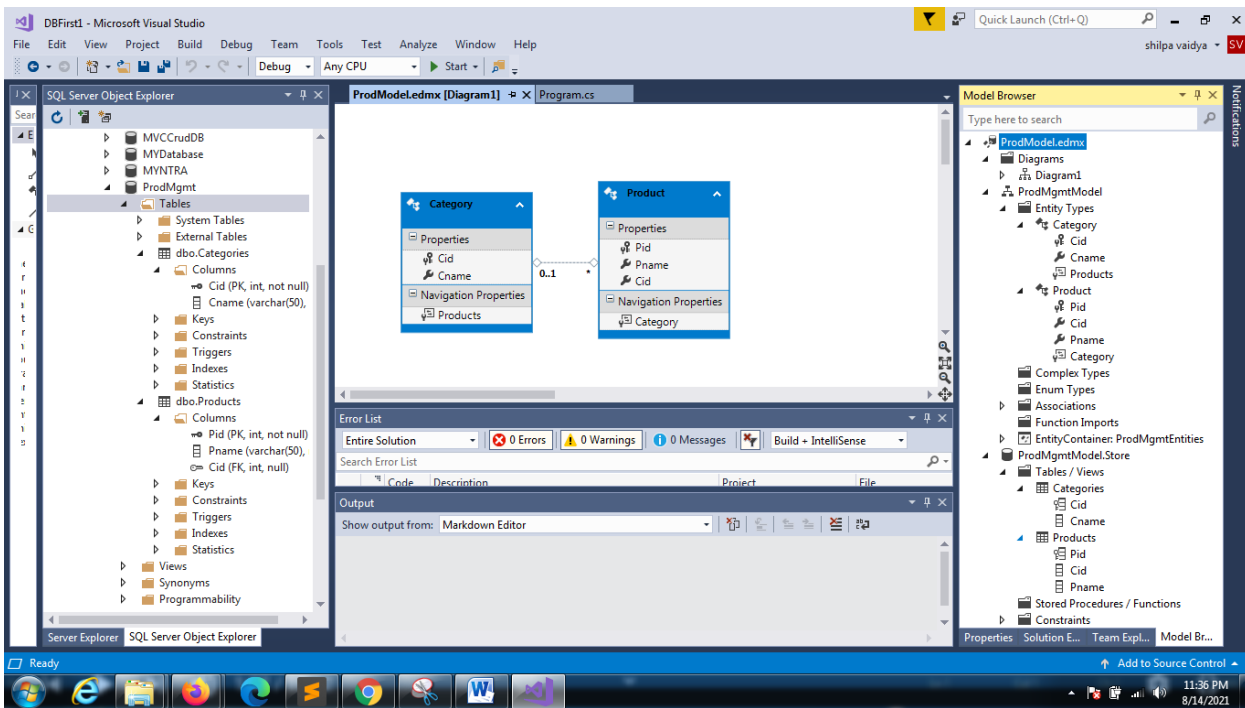
IF YOU WANT TO SEE THE SAME IN XML FORMAT



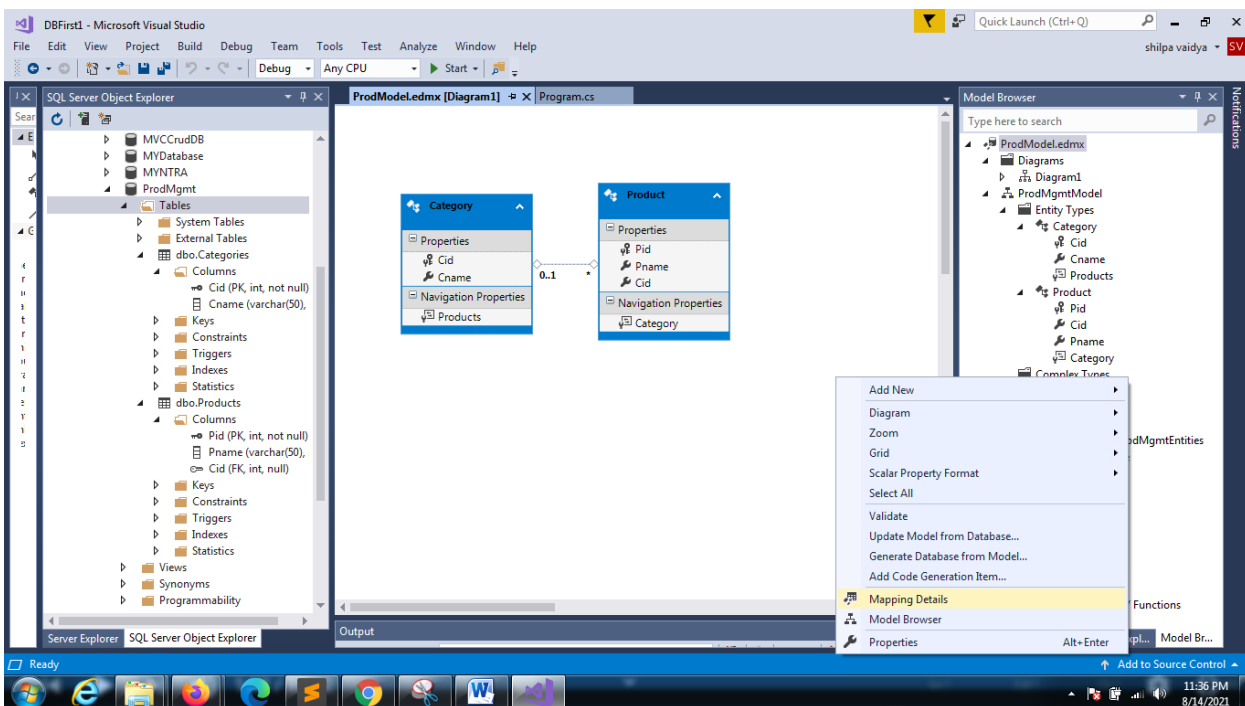


MODEL BROWSER

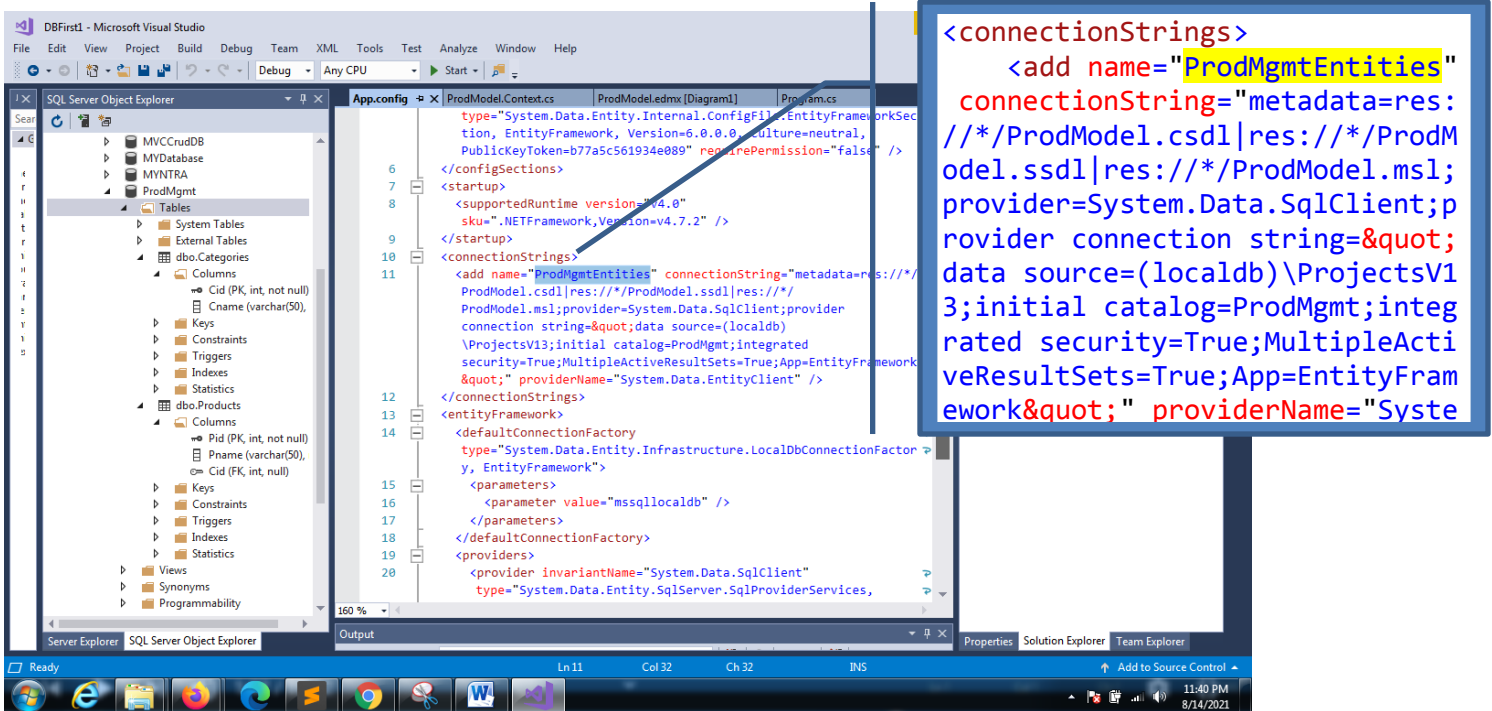
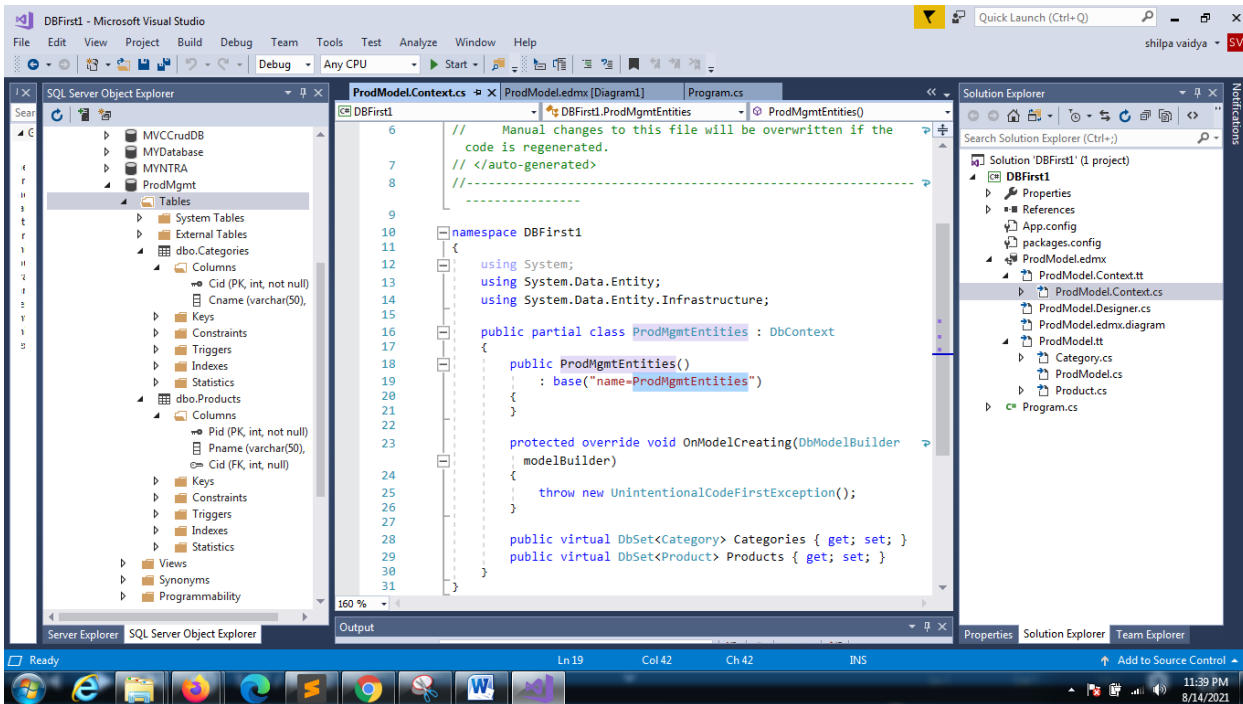




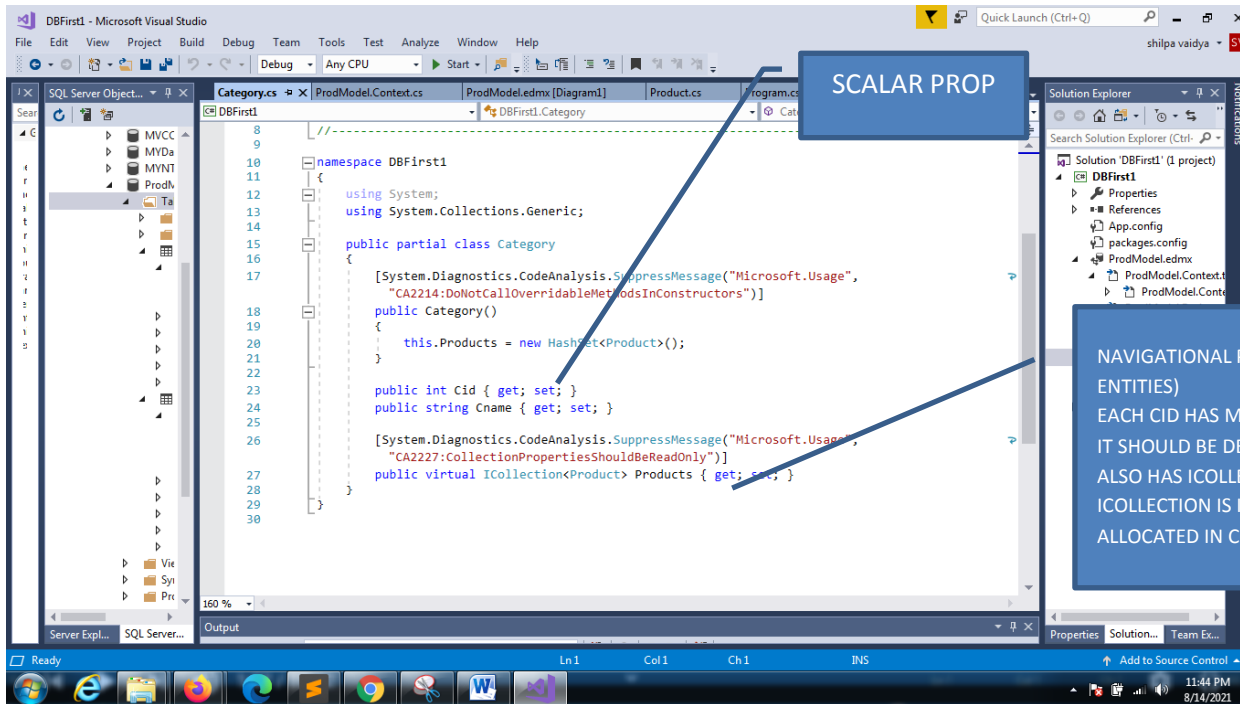
MAPPING DETAILS(CLICK ON THE ENTITY TO SEE MAPPING DETAILS)



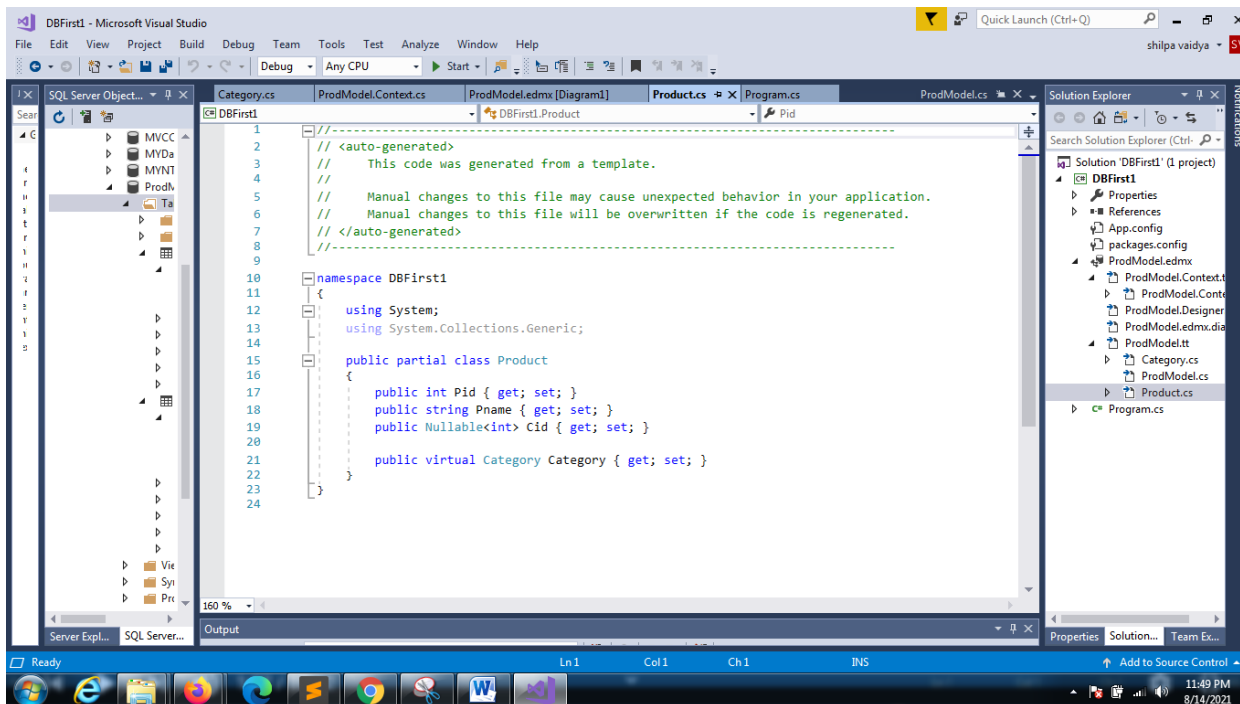
DBCONTEXT CLASS THE NAME SPECIFIED IS IN APPCONFIG



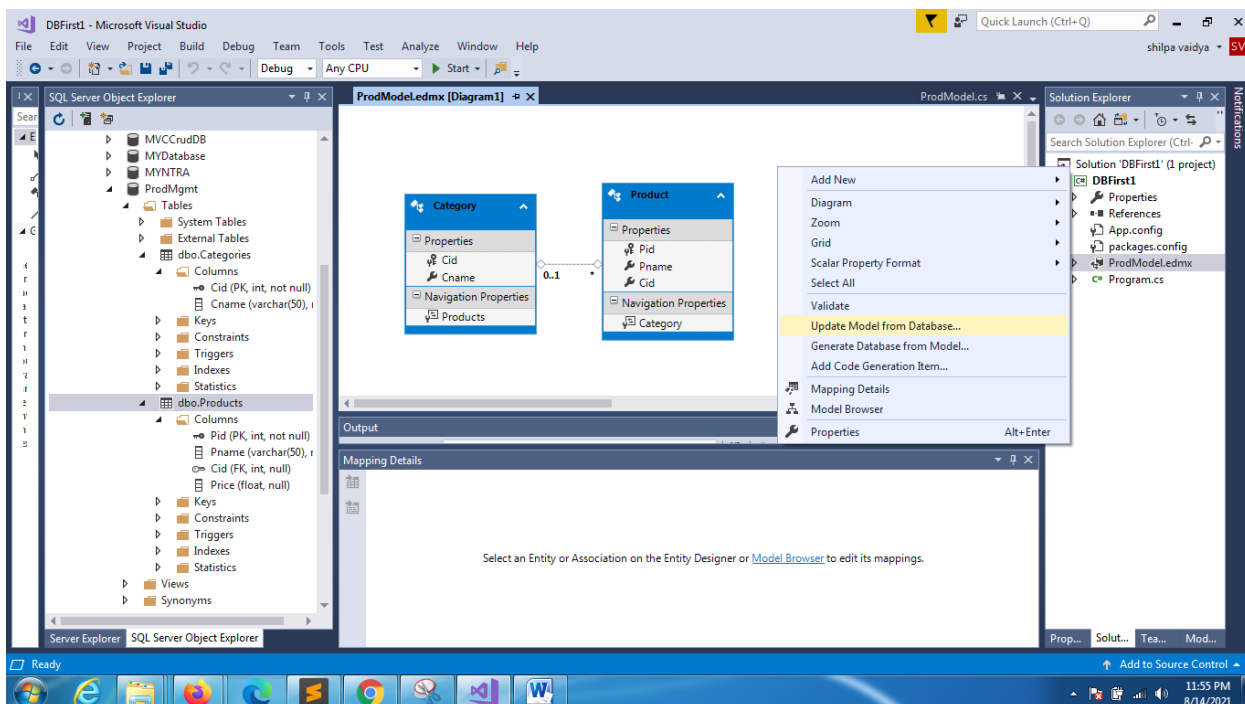
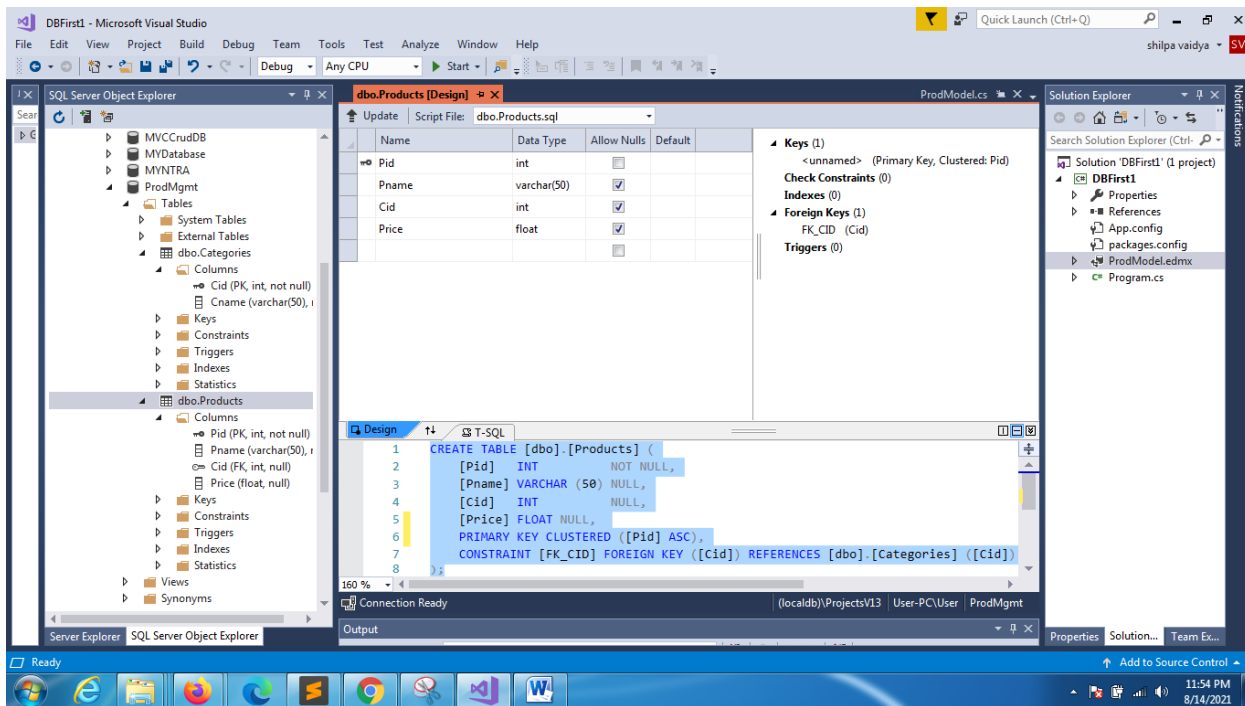
CATEGORY.CS

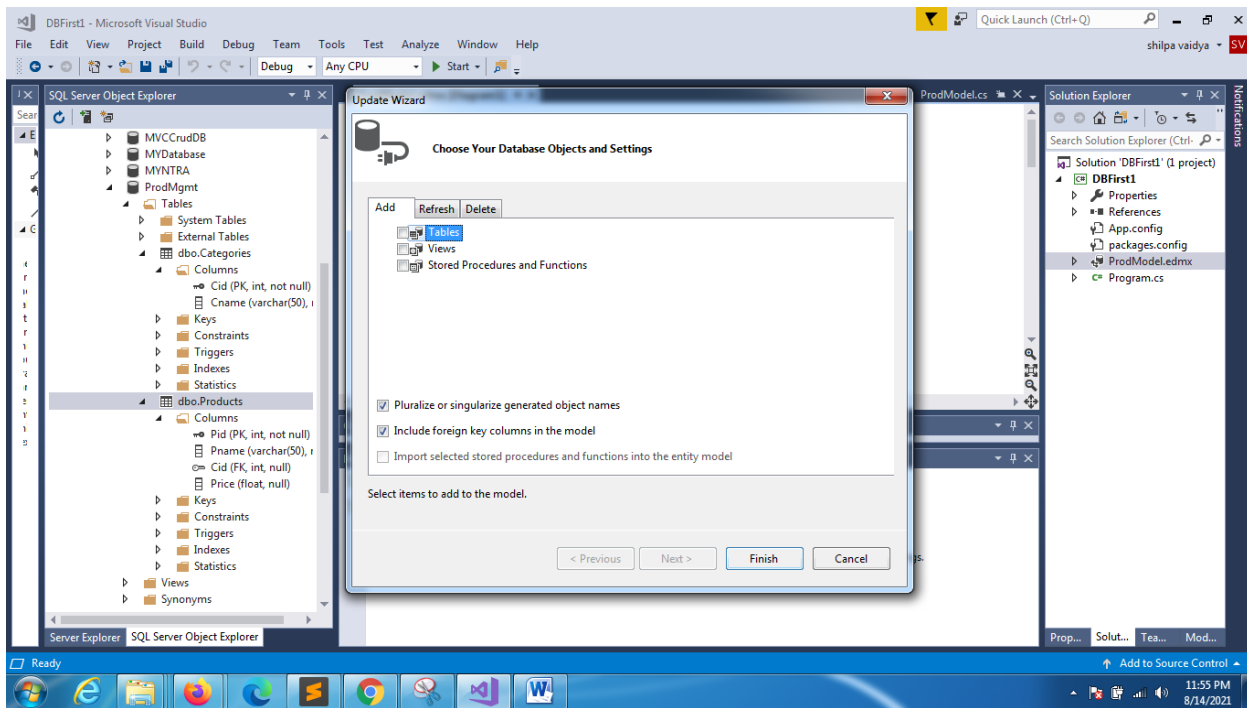


PRODUCTS.CS



IF YOU ADD ANY COLUMN IN DB EX YOU ADDED PRICE IN PRODUCTS

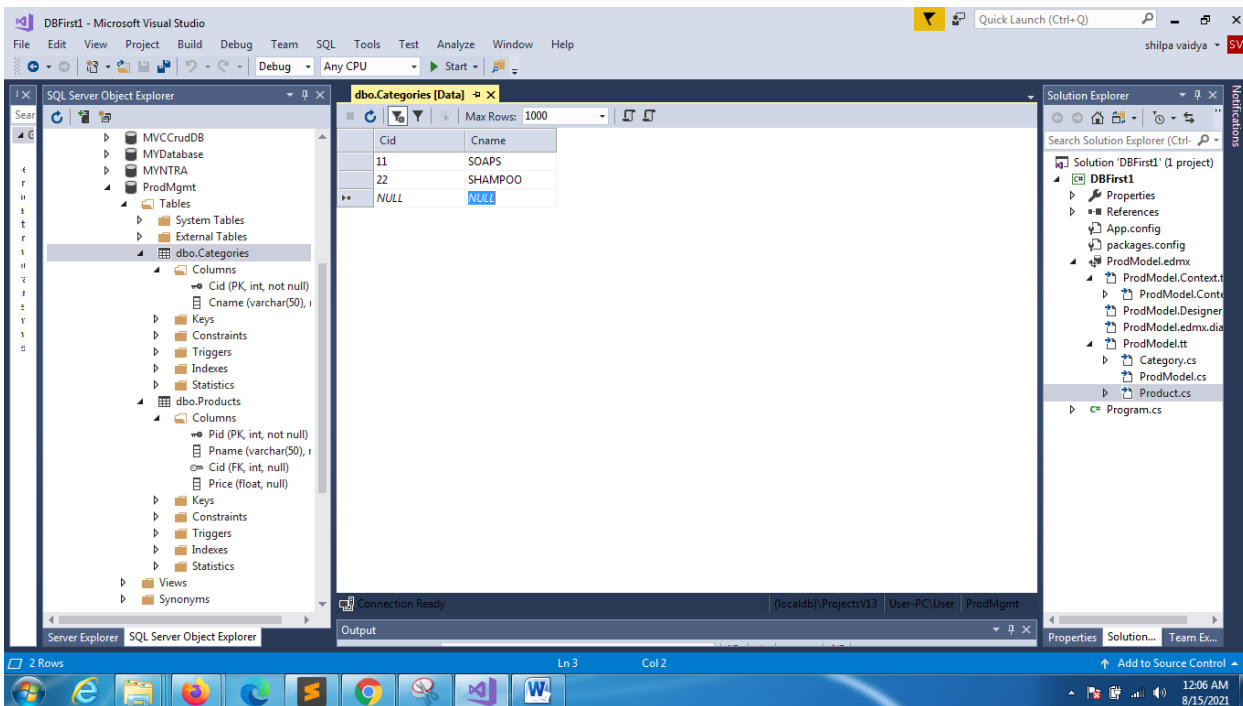




After this save your edmx file only then the changes will be reflected in entity classes.

We will be performing the crud operations here

Will first need to populate the **Categories** as Products has the CID as the foreign key and its dependent on the Categories.



WILL KEEP THE STRUCTURES READY IN THE START UP
PROGRAM WITH OPERATIONS ON

INSERT

RETRIEVE

UPDATE

DELETE

```

using System;

namespace DBFirst1
{
    class Program
    {
        public static void display(Product p)
        {
            Console.WriteLine("{0}\t{1}\t{2}\t{3}\t{4}", p.Pid, p.Pname, p.Cid, p.Price, p.Category.Cname);
        }
        public static Product getProddata()
        {
            Product prod = new Product();
            prod.Pid = Convert.ToInt32(Console.ReadLine());
            prod.Pname = Console.ReadLine();
            prod.Cid = Convert.ToInt32(Console.ReadLine());
            prod.Price = float.Parse(Console.ReadLine());
            return prod;
        }
        static void Main(string[] args)
        {
            //CREATE OBJ OF CONTEXT CLASS
            ProdMgmtEntities db = new ProdMgmtEntities();

            int choice, id;
            do
            {
                Console.WriteLine("1 INSERT 2 DISPLAY 3 UPDATE 4 DELETE 5 EXIT");
                choice = Convert.ToInt32(Console.ReadLine());
                Product prod = new Product();
                switch (choice)
                {
                    case 1:
                        Console.WriteLine("Enter PID,PNAME.CID,PRICE");
                        prod=getProddata();
                        db.Products.Add(prod);
                        db.SaveChanges();
                        break;
                    case 2:
                        Console.WriteLine("PID\tPNAME\tCID\tPRICE\tCATEGORYNAME\t");
                        Console.WriteLine("-----");
                        foreach (Product p in db.Products)
                        {
                            display(p);
                        }
                        break;
                    case 3:
                        Console.WriteLine("UPDATE RECORD");
                        Console.WriteLine("Enter the PID");
                        id = Convert.ToInt32(Console.ReadLine());
                        prod = db.Products.Find(id);
                        if (prod == null)
                            Console.WriteLine("ID NOT FOUND");
                        else
                        {
                            Console.WriteLine("ENTER PNAME\tCID\tPRICE\t");
                            prod.Pname = Console.ReadLine();
                            prod.Cid = Convert.ToInt32(Console.ReadLine());
                            prod.Price = float.Parse(Console.ReadLine());
                            db.SaveChanges();
                        }
                        break;
                    case 4:
                        Console.WriteLine("UPDATE RECORD");
                        Console.WriteLine("Enter the PID");
                        id = Convert.ToInt32(Console.ReadLine());
                        prod = db.Products.Find(id);
                        if (prod == null)
                            Console.WriteLine("ID NOT FOUND");
                        else
                        {
                            db.Products.Remove(prod);
                            db.SaveChanges();
                        }
                        break;
                    case 5:break;
                    default: Console.WriteLine("Invalid choicce");break;
                }
            } while (choice!=5);
        }
    }
}

```