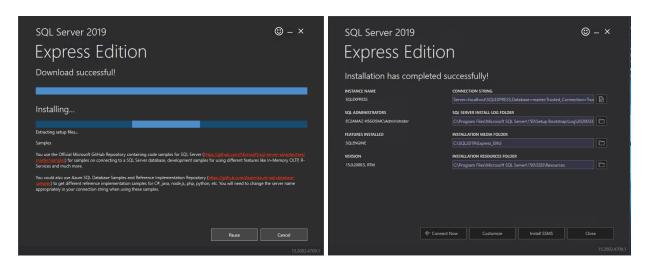
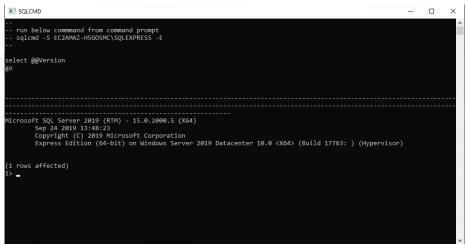
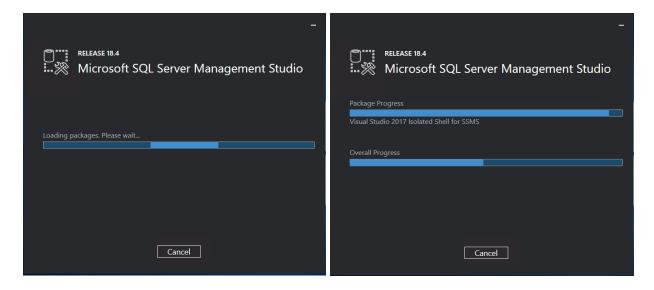
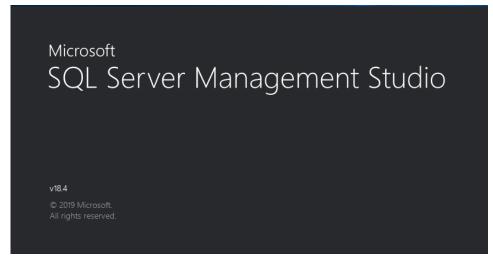
Part 1: Part 1 - Installing and using the MS SQL Server Environment Installing SQL Server 2019



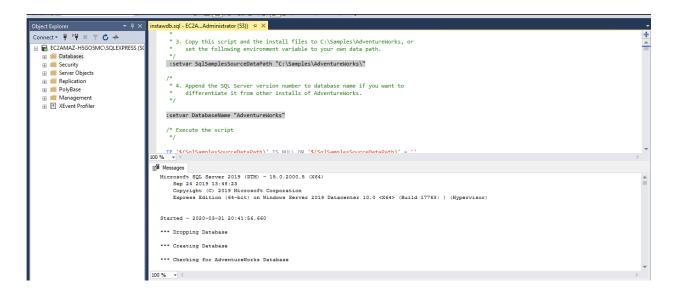


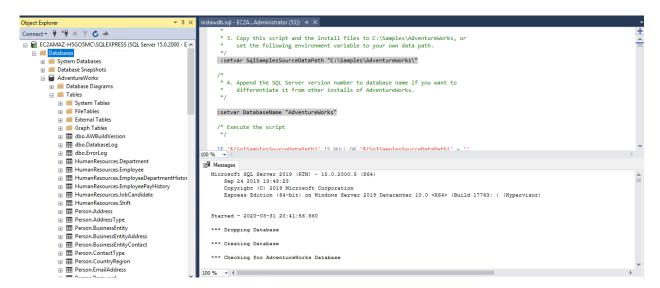
Install and Use SSMS





Install the Adventure Works Database

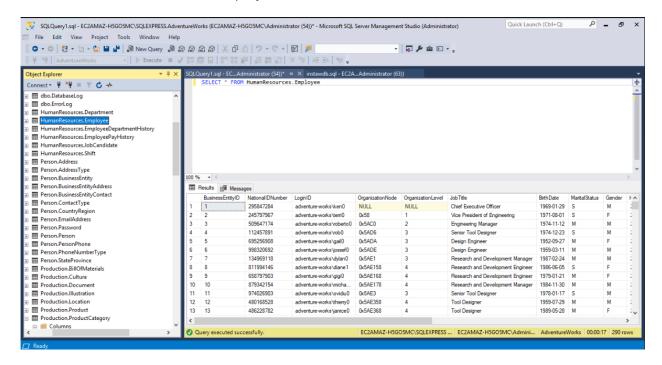




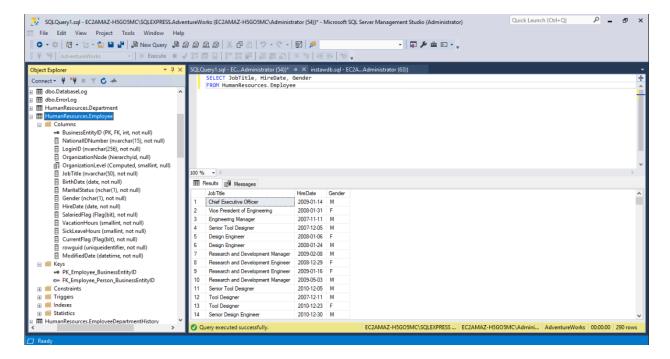
End Part 1

Part 2: Query MS SQL Server Using SSMS to Query Data

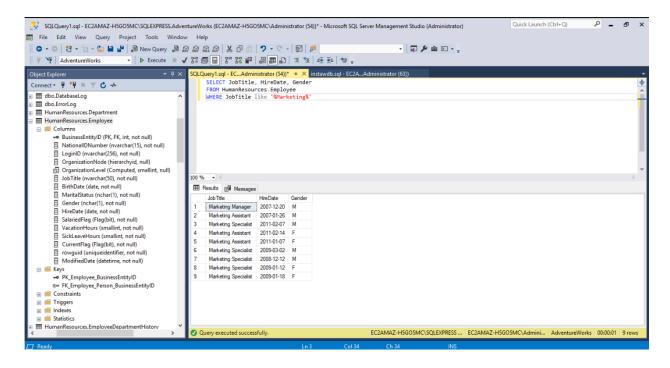
SELECT * FROM HumanResources.Employee



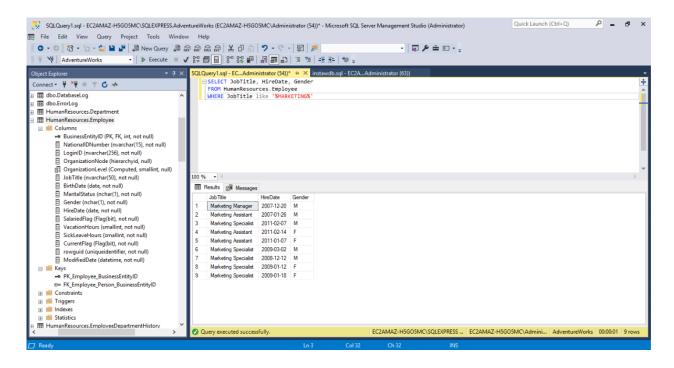
SELECT JobTitle, HireDate, Gender FROM HumanResources.Employee



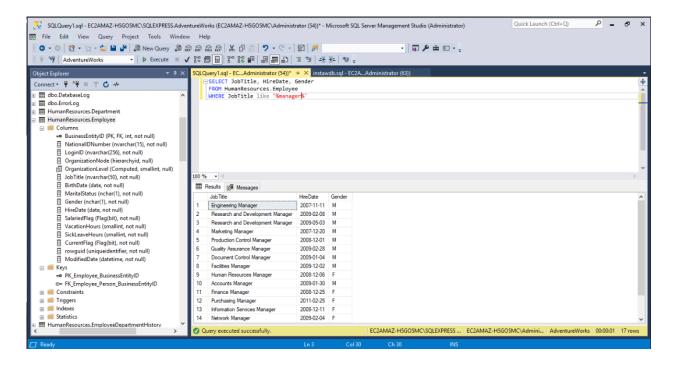
SELECT JobTitle, HireDate, Gender FROM HumanResources. Employee WHERE JobTitle like '%Marketing'



SELECT JobTitle, HireDate, Gender FROM HumanResources. Employee WHERE JobTitle like '%MARKETING'



SELECT JobTitle, HireDate, Gender FROM HumanResources.Employee WHERE JobTitle like '%manager%'

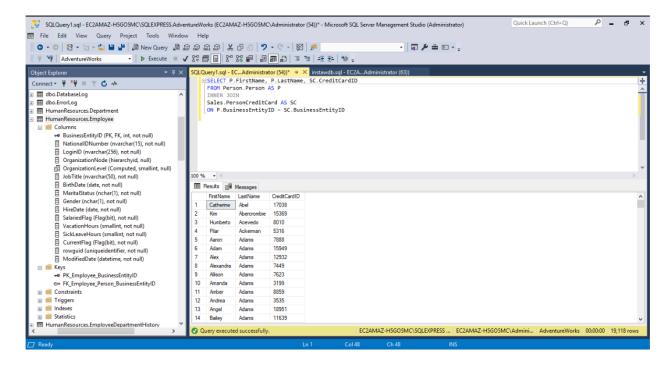


Join Tables

SELECT P.FirstName, P.LastName, SC.CreditCardID FROM Person.Person AS P INNER JOIN

Sales.PersonCreditCard AS SC

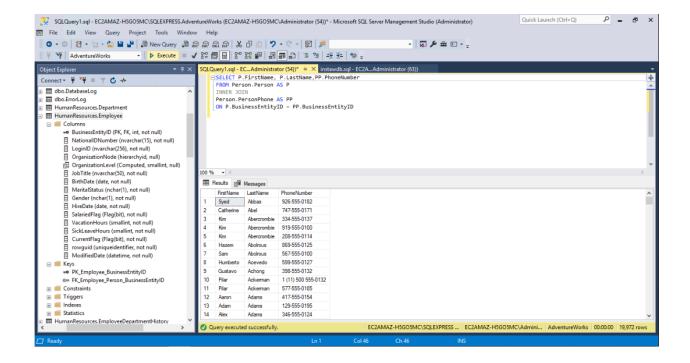
ON P.BusinessEntityID = SC.BusinessEntityID



MSDE631 - Lab 2

Etana Disasa

SELECT P.FirstName, P.LastName, PP.PhoneNumber
FROM Person.Person AS P
INNER JOIN
Person.PersonPhone AS PP
ON P.BusinessEntityID = PP.BusinessEntityID



MSDE631 - Lab 2

Etana Disasa

SELECT P.FirstName, P.LastName, PP.PhoneNumber, PNT.Name Type FROM Person.Person AS P INNER JOIN

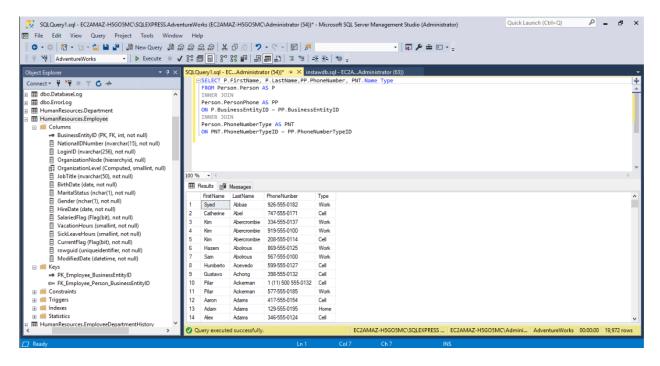
Person.PersonPhone AS PP

ON P.BusinessEntityID = PP.BusinessEntityID

INNER JOIN

Person.PhoneNumberType AS PNT

ON PNT.PhoneNumberTypeID = PP.PhoneNumberTypeID



PROBLEM

At this point, you will create your own query that will join 5 tables together. The Production.Product has four foreign keys as shown below. Write a query that joins the Product table with the four other tables using INNER JOINS. Select the columns from other tables that will validate that the joins to all four tables are working correctly; make the query results make sense. Include the Product name, Product Number, and ListPrice as part of the result set (plus at least one other column from the four other tables).

Solution

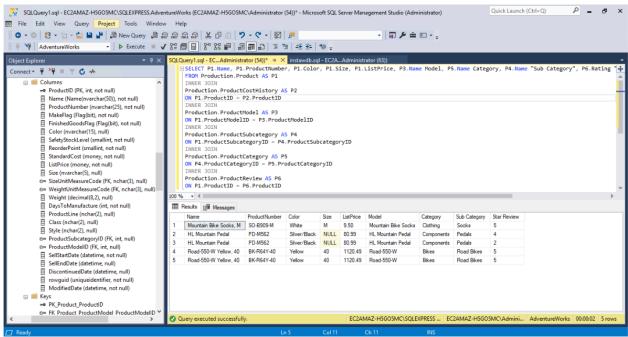
For this problem, I decided to join six tables namely Production.Product, Production.ProductCostHistory, Production.ProductModel, Production.ProductSubcategory, Production.ProductCategory and Production.ProductReview. This new table has six columns with helpful information about the product we are seeing. The query is from below:

```
SELECT P1.Name, P1.ProductNumber, P1.Color, P1.Size, P1.ListPrice, P3.Name Model, P5.Name
Category, P4.Name "Sub Category", P6.Rating "Star Review"
FROM Production. Product AS P1
INNER JOIN
Production.ProductCostHistory AS P2
ON P1.ProductID = P2.ProductID
INNER JOIN
Production ProductModel AS P3
ON P1.ProductModelID = P3.ProductModelID
Production.ProductSubcategory AS P4
ON P1.ProductSubcategoryID = P4.ProductSubcategoryID
INNER JOIN
Production.ProductCategory AS P5
ON P4.ProductCategoryID = P5.ProductCategoryID
INNER JOIN
Production.ProductReview AS P6
ON P1.ProductID = P6.ProductID
```

The outcome is from below with 5 observations

Mountain Bike Socks, M	SO-B909-M	White	M	9.50	Mountain Bike Socks	Clothing	Socks	5
HL Mountain Pedal	PD-M562	Silver/Black	NULL	80.99	HL Mountain Pedal	Components	Pedals	4
HL Mountain Pedal	PD-M562	Silver/Black	NULL	80.99	HL Mountain Pedal	Components	Pedals	2
Road-550-W Yellow, 40	BK-R64Y-40	Yellow	40	1120.49	Road-550-W Bikes	Road Bikes		5
Road-550-W Yellow, 40	BK-R64Y-40	Yellow	40	1120.49	Road-550-W Bikes	Road Bikes		5

The screenshot of the final outcome looks like this.



End of Part 2