**Name: T.S.**

**Homework: How to work on data types**

**Note: You need to install the AdventureWorks2017 database on your computer. Go to Blackboard/Course Contents/Script Files for Assignment for instruction. For those of you using my server it is already installed and you have access.**

1. Write a SELECT statement that returns these columns from the db1.MyGuitarShop.Products table:

The ListPrice column

A column that uses the CAST function to return the ListPrice column with 1 digit to the right of the decimal point

A column that uses the CONVERT function to return the ListPrice column as an integer

A column that uses the CAST function to return the ListPrice column as an integer

Query goes here

SELECT ListPrice ,

cast(ListPrice as decimal(10,1)) as one\_deecimal,

CONVERT(INTEGER, ListPrice) as converted,

cast(ListPrice as integer) as priceInteger

FROM

MyGuitarShop.Products

Screen shot goes hereTable

Description automatically generated

1. Write a SELECT statement that returns these columns from the db1.MyGuitarShop.Products table:

The DateAdded column

A column that uses the CAST function to return the DateAdded column with its date only (year, month, and day)

A column that uses the CAST function to return the DateAdded column with its full time only (hour, minutes, seconds, and milliseconds)

A column that uses the CAST function to return the DateAdded column with just the month and day

Query goes here

SELECT

DateAdded,

CAST(DateAdded AS date) as Year\_Month\_Day,

CAST(DateAdded AS time) AS hr\_min\_ss\_ms,

CAST(DateAdded AS varchar(6)) MonthDay

FROM

MyGuitarShop.Products

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Table

Description automatically generated

1. Write a SELECT statement that returns these columns from the db1.MyGuitarShop.Orders table:

A column that uses the CONVERT function to return the OrderDate column in this format: MM/DD/YYYY. In other words, use 2-digit months and days and a 4-digit year, and separate each date component with slashes.

A column that uses the CONVERT function to return the OrderDate column with the date, and the hours and minutes on a 12-hour clock with an am/pm indicator.

A column that uses the CONVERT function to return the OrderDate column with just the time in a 24-hour format, including the milliseconds.

Query goes here

SELECT

convert(varchar, OrderDate,101) as [MM/DD/YY],

convert(varchar, OrderDate, 0) as date\_hour\_min\_12hrs,

convert(varchar, OrderDate, 114) as time\_miliseconds

from

MyGuitarShop.Orders

Graphical user interface, application, table

Description automatically generated

1. Write a SELECT statement returns all rows from the [AdventureWorks2017].[Person].[Address] table that contain the digit 0 preceding the word “Olive”. Hint use PATINDEX.

Query goes here

SELECT \*,

PATINDEX('%0\_Olive%', AddressLine1)

from

[Person].[Address]

WHERE

AddressLine1 like '%0\_Olive%'

Screen shot goes here

Table

Description automatically generated

1. Write a SELECT statement that returns return all the names that sound like the name “Smith”. Use the [AdventureWorks2017].[Person].[Person] table.

Query goes here

SELECT \*

from

[Person].[Person]

WHERE SOUNDEX(LastName) = SOUNDEX('Smith');

Table

Description automatically generated

1. Write a select statement that returns the top 5 rows of the productid, today's date, the EndDate, and the calculated Elapsed Months difference between the EndDate from the table and today's date. **NOTE:** your answer may be sightly different as I used July 19, 2021, as today's date. Use the [AdventureWorks2017].[Production].[ProductCostHistory] table.

Query goes here

SELECT top 5 ProductID, EndDate,

GETDATE() AS Today\_date ,

DATEDIFF(year, EndDate, GETDATE()) AS DateDiff

from

[Production].[ProductCostHistory]

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Table

Description automatically generated

1. Write a select statement that will return name of the month and day of the week for the EndDate column in the [AdventureWorks2017].[Production].[ProductCostHistory] table. Only return the top 5 rows.

SELECT top 5 DATENAME(month, EndDate) as MONTH

,DATENAME(day, EndDate) as DAY

from

[Production].[ProductCostHistory]

Table

Description automatically generated