Assignment Day1 –SQL: Comprehensive practice

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# Write queries for following scenarios

**Using AdventureWorks Database**

* 1. Write a query that retrieves the columns ProductID, Name, Color and ListPrice from the Production.Product table, with no filter.

Ans: Select productid, Name, Color, ListPrice From production.product

Graphical user interface

Description automatically generated

* 1. Write a query that retrieves the columns ProductID, Name, Color and ListPrice from the Production.Product table, excludes the rows that ListPrice is 0.

Ans: Select ProductID,Name,Color,ListPrice From Production.Product where ListPrice != 0

Graphical user interface, application

Description automatically generated

* 1. Write a query that retrieves the columns ProductID, Name, Color and ListPrice from the Production.Product table, the rows that are NULL for the Color column.

Ans: Select ProductID,Name,Color,ListPrice From Production.Product Where Color IS NULL

Graphical user interface, table

Description automatically generated with medium confidence

* 1. Write a query that retrieves the columns ProductID, Name, Color and ListPrice from the Production.Product table, the rows that are not NULL for the Color column.

Ans: Select ProductID,Name,Color,ListPrice From Production.Product where Color IS NOT NULL

Graphical user interface, application

Description automatically generated

* 1. Write a query that retrieves the columns ProductID, Name, Color and ListPrice from the Production.Product table, the rows that *are not* NULL for the column Color, and the column ListPrice has a value greater than zero.

Ans: Select ProductID,Name,Color,ListPrice from Production.Product where Color IS NOT NULL AND ListPrice >0

Graphical user interface, text, application

Description automatically generated

* 1. Write a query that concatenates the columns Name and Color from the Production.Product table by excluding the rows that are null for color.

Ans: Select Name+' '+Color As NameColor From Production.Product where Color IS NOT NULL

Graphical user interface, text, application

Description automatically generated

* 1. Write a query that generates the following result set from Production.Product:

Name And Color

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NAME: LL Crankarm -- COLOR: Black

NAME: ML Crankarm -- COLOR: Black

NAME: HL Crankarm -- COLOR: Black

NAME: Chainring Bolts -- COLOR: Silver

NAME: Chainring Nut -- COLOR: Silver

NAME: Chainring -- COLOR: Black

Ans: Select Name,Color From production.product where Name LIKE 'C%' AND Color IN('Black','Silver')

Graphical user interface, text

Description automatically generated

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* 1. Write a query to retrieve the to the columns ProductID and Name from the Production.Product table filtered by ProductID from 400 to 500

Ans: Select ProductID,Name From Production.Product where ProductID BETWEEN 400 AND 500

Graphical user interface, text, application

Description automatically generated

* 1. Write a query to retrieve the to the columns ProductID, Name and color from the Production.Product table restricted to the colors black and blue

Ans: Select ProductID,Name,Color From Production.Product Where (Color ='black') OR (color='blue')

Graphical user interface

Description automatically generated

* 1. Write a query to get a result set on products that begins with the letter S.

Ans: select Name from Production.Product where Name LIKE 'S%'

Graphical user interface, application

Description automatically generated

* 1. Write a query that retrieves the columns Name and ListPrice from the Production.Product table. Your result set should look something like the following. Order the result set by the Name column.

Name ListPrice

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Seat Lug 0,00

Seat Post 0,00

Seat Stays 0,00

Seat Tube 0,00

Short-Sleeve Classic Jersey, L 53,99

Short-Sleeve Classic Jersey, M 53,99

Ans: Select Name,ListPrice From Production.Product where Name LIKE 's%' ORDER BY Name

Graphical user interface, application

Description automatically generated

* 1. Write a query that retrieves the columns Name and ListPrice from the Production.Product table. Your result set should look something like the following. Order the result set by the Name column. The products name should start with either 'A' or 'S'

Name ListPrice

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Adjustable Race 0,00

All-Purpose Bike Stand 159,00

AWC Logo Cap 8,99

Seat Lug 0,00

Seat Post 0,00

Ans: select Name,ListPrice From Production.Product where Name LIKE 'A%' OR Name LIKE 'S%' order by Name

Graphical user interface

Description automatically generated

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* 1. Write a query so you retrieve rows that have a Name that begins with the letters SPO, but is then *not* followed by the letter K. After this zero or more letters can exists. Order the result set by the *Name* column.

Ans:

Select Name From Production.Product where Name LIKE 'SPO%' AND NAME NOT LIKE '%SPOK%' order by Name

Graphical user interface, text, application, email

Description automatically generated

* 1. Write a query that retrieves *unique* colors from the table Production.Product. Order the results in descending manner

Ans: select distinct color from Production.Product order by color DESC

Graphical user interface, text, application, email

Description automatically generated

* 1. Write a query that retrieves the unique combination of columns ProductSubcategoryID and Color from the Production.Product table. Format and sort so the result set accordingly to the following. We do not want any rows that are NULL.in any of the two columns in the result.

Ans: select distinct productsubcategoryID, Color from Production.Product where ProductSubcategoryID !=0 AND color IS NOT NULL order by ProductSubcategoryID

Graphical user interface, table

Description automatically generated

GOOD LUCK.